GF Piping Systems

Product Range

Marine



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Marine application environment

Plastic can do more for ship and offshore

A corrosion-free piping systems besides ensuring a long servicer life of the non-essential systems, add a long list of benefits. We have developed systems comprising pipe, fittings, valves, and measuring and control devices in high quality corrosion resistant thermoplastics for the transport of fresh and sea water, but also other media as glycol, salt solution and compressed air. Whether installed from engine room, through kitchen to cabin locker, GF Piping Systems provides a solution.



Cruise ship and ferries

Ferry contribute to people mobility. Cruise are essential for tourism industry. The population and tourism growth demand need high efficient solution. GF helps to reduce the CO_2 and increase production by reducing the maintenance time.



Merchant ships

Ships are not only floating cities but are also essential for the worlds economy. Preventing corrosion is more important here than anywhere else. With GF Piping Systems, corrosion is no longer an issue. Cost-effective and high-quality, plastics are your right choice. We will help you increase production by reducing maintenance time and overall operational cost.



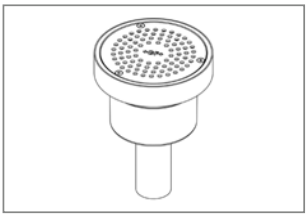
Offshore

Offshore drilling rigs are exposed to the forces of nature day and night. Wind, rain and saltwater can be very harsh on structures, housing and supply lines. The pipelines for hot and cold water, effluent and greywater, rain catchment and chemical distribution are particularly affected, internally and externally, by corrosion as well as incrustation. The solutions from GF Piping Systems warrants the safe conveyance of drinking water and other process fluids – without altering their quality in the least.



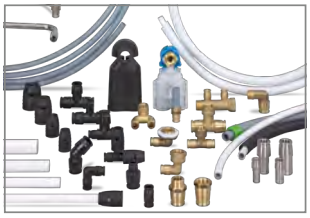
SeaDrain® White & Fast Lock

Grey and black water, vent line



SeaDrain® White

Scupper for open deck



iFIT

Hot & cold, fresh water,
AC-cooling



ELGEF Plus

Ballast water



COOL FIT ABS

AC cooling



COOL-FIT 2.0

Chilled water, AC cooling



COOL-FIT 4.0

Chilled water, AC cooling



ecoFIT

Ballast, AWP, RSW and
scrubber effluent



PVC-U metric

Water Treatment, swimming pool
and SPA



PVC-C Marine Grade metric

Water treatment, sea water



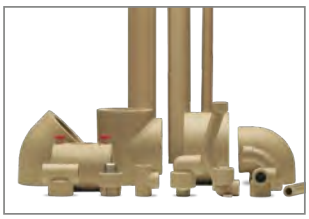
INSTAFLEX

Hot and cold, fresh water



JRG Sanipex MT

Hot & cold, fresh water,
AC-cooling, compressed air



AQUASYSTEM

Hot and cold water



JRG Valves

Hot and cold, fresh water



Hycleen Automation System

Hot and cold water distribution



Valves & Automation

Accurate measurement,
precise control, reliable actuation

Corrosion resistant piping for every applications

GF Piping Systems used in marine applications

Application \ Material	SeaCor®	SeaDrain® Plus	SeaDrain® White	PVC-U	PVC-C Marine Grade	COOL-FIT ABS	COOL-FIT 2.0	COOL-FIT 4.0	eco FIT	PROGEF PP-H	AQUASYSTEM PP-R	INSTAFLEX PB	iFIT PB/ML	JRG Sanipex MT
Distribution hot water	■				■					■	■	■	■	■
Distribution cold water	■				■				■	■	■	■	■	■
Compressed air									■		■	■		■
Black water	■	■	■	■	■				■					
Grey water	■	■	■	■	■				■					
Water treatment	■		■	■	■	■			■					
Desalination	■		■	■	■				■	■				
Reverse osmosis	■			■	■				■	■				
Air Conditioning lines	■			■	■	■	■	■		■	■	■	■	■
Brine and provigion lines						■			■					
Sea and freshwater cooling						■	■	■	■					
Ballast water treatment	■			■	■			■	■	■				
AWP Systems	■			■	■				■	■			■	
Ventilation lines	■	■	■	■					■	■				
Exhaust gas scrubber	■			■	■				■	■		■	■	
Condensation and/or recirculation lines					■						■	■	■	■
Deck drain		■	■	■	■				■					
Pool and SPA	■		■	■	■	■			■					

Hot and cold drinking water

Hycleen Automation System prevents biofilm formation and legionella infestation thanks to temperature control and regular flow and flushing. To supply your staterooms or the kitchen with water, we recommend our INSTAFLEX (PB) in combination with iFIT and JRG Sanipex MT. All systems are resistant to hot water and chlorine desinfection.

Water treatment

A water treatment system for drinking water is always necessary on board of a ship. As well as water conditioning for swimming pool water and sewage water. The best solutions for these applications are our ABS, PVC-U, PVC-C Marine Grade and PP-H systems. These have the advantage of being very lightweight and flexible.

Ballast water treatment

Plastics are light weight and allow long lasting installation: ideal for use in water treatment skids. GF offers a complete range of valves in compatible materials, both actuated and manual to round off a complete system solution.

Cooling systems

For indirect cooling goes below 0 °C, plastics which can withstand these temperatures are required. This is where COOL FIT 4.0, ecoFIT and ABS show their strengths because they can be used down to –40 °C. They are robust and have excellent impact strength.

Air venting

Ventilation of water tanks can be cost effectively using plastic pipes , avoiding potential corrosion and weight problems associated with present traditional metal solutions.

Technical Water

For cooling seawater and technical water, our ecoFIT, ABS, iFIT and INSTAFLEX systems are ideal. They are robust and very suitable for use at low temperatures.

Grey and black water

SeaDrain® White is the system you have to choose for excellent solution for Black and Grey water conveyance. The system introduce the first non-corroding deckdrain. It offer both welded and mechanical joint capabilities with the Fast-Lock method. Our ABS, PVC-U and PVC-C Marine Grade are also suitable.

Ballast systems and bunker lines

Larger dimensioned systems are necessary for bilge, water bunkering and ballast systems. ecoFIT is ideal for such applications. It is on offer in the dimension range 20 – 630 mm. Among the multiple benefits are light weight and good abrasion resistance. Electrofusion jointing, which is very simple and saves time, facilitate the installation in narrow spaces.

Your benefits

- **Low pressure drop**
- **Light weight**
- **Long service life**
- **Economical upkeep**
- **Fast installation**
- **Less noise emission**
- **Global availability**
- **Environmental friendly**

Approvals

GF Piping Systems has a whole range of approvals from all the major classification societies.

	Classification society									
Material system	LR	BV	RINA	ABS	DNVGL	CCS	RMRS	NK	KR	USCG
ABS	•	•	•	•	•	•	•		•	
PVC-C	•	•	•	•	•	•	•		•	
PVC-U	•	•	•	•	•	•	•			
ecoFIT	•	•	•	•	•	•	•	•		
PP-H	•	•	•		•					
INSTAFLEX	•	•	•	•	•	•	•			
AQUASYSTEM	•		•							
iFIT	•	•	•	•	•		•			
JRG Sanipex MT	•	•	•		•		•			
SeaDrain®	•		•	•	•		•			
SeaCor®				•						•
Sea Drain Plus				•						•

Best choice for your marine application

Ships and platform are also essential for the worlds economy. Water is their element. Preventing corrosion is more important here than anywhere else. With plastic piping systems from GF Piping Systems, corrosion is no longer an issue.

Plastic can do more

Corrosion-free piping systems. This guarantees the long service life of your systems. You save dry-dock time. You save service costs. You save maintenance costs. All in all, you are in business quicker. That is your benefit. You also save on weight. Plastic piping systems weigh approx. 5 x less than metal – a savings of several tonnes per ship. This in turn allows for more freight, more passengers and therefore more profit. Besides, installation is much faster. Plastic offers the possibility of prefabrication, which radically reduces installation time on board. Plastic enables installations with a small amount of tools in a small amount of space. Technical specialists are not always required. Another significant benefit.

Weight comparison – plastic to metal (per 100 metres of piping)

	Diameter			
kg	d25	d50	d110	d160
Plastic	16	53	248	550
Carbon steel	119	233	737	1093
Stainless steel	79	197	505	1542
Copper	59	292	737	-
Savings plastic to steel	**103**	**239**	**489**	**992**

Where can i use plastics?

GF Piping System are approved according to IMO Res. A.753 in combination with classification society. The GF piping can be applied for non-essential application on board and can be installed in accommodation area, open deck, cofferdam and engine rooms. The low flame spread is tested in accordance to ASTM D.635 for all the GF piping system. SeaCor is also recognized by USCG and together PVCC Marine Grade meets the recent MSC 399, part 2 and 5 of FTP Code so to satisfy more stringent requirement.



INSTAFLEX



Technical data

Materials
PB, DZR brass

Dimensions range
d16 mm – d315 mm

Jointing technology
Electro fusion, socket fusion, butt fusion, compression joints

Operating pressure
Up to 16 bar

Operating temperature
–10°C to 95°C

The value above listed are to be considered for water, in case of use chemical addition it is always recommended to contact GF specialist to an individual and more detailed assessment.

Your benefits

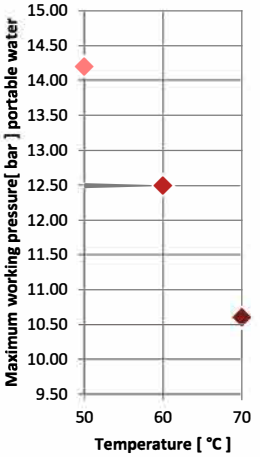
- **Noise-insulating**
- **Full flow design**
- **Elasticity to follow building shape**
- **Flexibility helps where space is limited**
- **Cost-effective prefabricated solutions**
- **One system from point of entry to lap**
- **Excellent pressure and temperature resistant**
- **Complete system in one pipe material**
- **Simplicity with electro fusion fittings**

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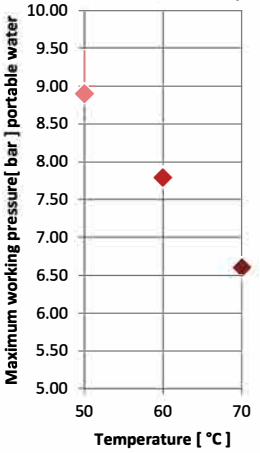
Technical Data

	Temperature [°C]	Time [years]	Polybuten PB-1
			Pipe serie s
			S
			SDR
			11
approved range	10	1	20.3
		5	20.1
		10	20.0
		25	19.7
		50	19.4
		100	19.1
	20	1	19.3
		5	19.1
		10	18.9
		25	18.5
		50	18.2
		100	17.8
	30	1	18.2
		5	17.9
		10	17.6
		25	17.2
		50	16.8
		100	16.5
	40	1	16.9
		5	16.5
		10	16.2
		25	15.7
		50	15.3
		100	15.0
	50	1	15.5
		5	15.0
		10	14.6
		25	14.1
		50	13.7
		100	13.4
	60	1	14.0
		5	13.2
		10	12.8
		25	12.3
		50	12.0
	70	1	12.3
		5	11.3
		10	10.9
		25	10.5
		50	10.1
calculated range	80	1	10.2
		5	9.3
		10	8.9
		12	8.8
		18	8.6
		25	8.4
	90	1	7.9
		4	7.2
		5	7.1
		6	7
		10	6.7
		15	6.5
	95	1	6.8
		2.5	6.3
		4	6
		5	5.9
		10	5.8

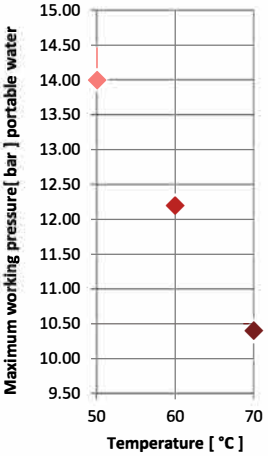
INSTAFLEX d16-d110
Working pressure (PN16)
expected lifetime 20 years



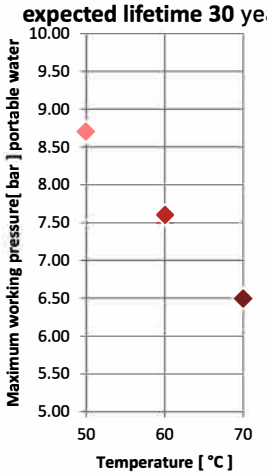
INSTAFLEX d125-d225
Working pressure (PN10)
expected lifetime 20 years



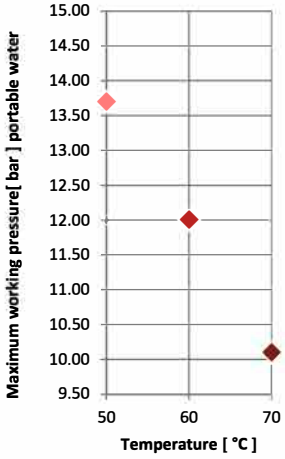
INSTAFLEX d16-d110
Working pressure (PN16)
expected lifetime 30 years



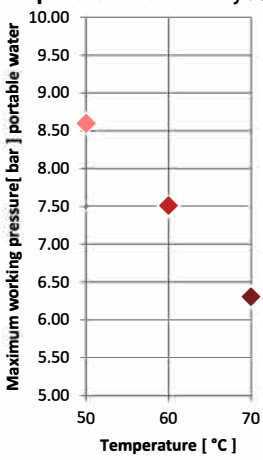
INSTAFLEX d125-d225
Working pressure (PN10)
expected lifetime 30 years



INSTAFLEX d16-d110 Working pressure (PN16) expected lifetime 50 years



INSTAFLEX d125-d225
Working pressure (PN10)
expected lifetime 50 years



Pipes



PB pipe - bars

Packed in cardboard boxes / PN 16

d (mm)	s (mm)	Code	SP	Weight (kg)	Length (m)
16	2.2	**760 856 606**	52	0.097	5.8
20	2.8	**760 856 607**	52	0.151	5.8
25	2.3	**760 856 608**	58	0.165	5.8
32	2.9	**760 856 609**	23	0.270	5.8
40	3.7	**760 856 610**	17	0.416	5.8
50	4.6	**760 856 611**	17	0.645	5.8
63	5.8	**760 856 612**	6	1.020	5.8
75	6.8	**760 856 613**	6	1.440	5.8
90	8.2	**760 856 614**	6	2.060	5.8
110	10.0	**760 856 615**	6	3.050	5.8
125	11.4	**761 065 326**	6	3.950	5.8
160	14.6	**761 065 327**	6	6.460	5.8
225	20.5	**761 065 328**	6	12.700	5.8
315	28.6	**761 065 324**	3	17.800	3.0

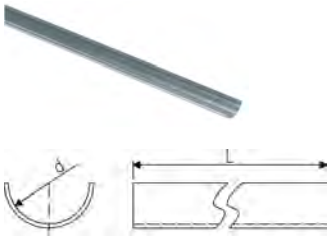


PB pipe (coiled)

Packed in cardboard boxes
Packed in protective wrap

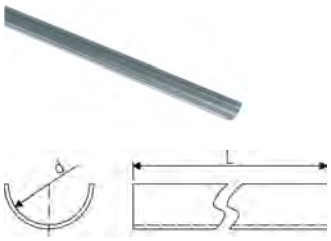
d (mm)	s (mm)	Length (m)	Code	SP	Weight (kg/m)
16	2.2	60	**760 853 389**	60	0.100
16	2.2	102	**760 853 395**	102	0.150
16	2.2	400	**760 856 624**	400	0.100
20	2.8	60	**760 853 390**	60	0.150
20	2.8	102	**760 853 397**	102	0.150
20	2.8	400	**760 853 398**	400	0.150
25	2.3	30	**760 854 946**	30	0.165

Accessories / Pipe Support



Clip pipe support tray

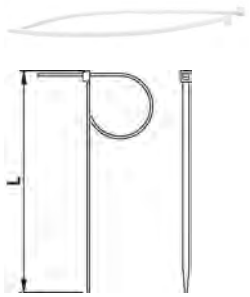
d (mm)	Code	SP	Weight (kg)	L (mm)
16	**760 856 602**	30	0.550	3000
20	**760 856 603**	30	0.680	3000
25	**760 856 604**	30	0.844	3000
32	**760 856 605**	30	1.073	3000



Pipe support tray

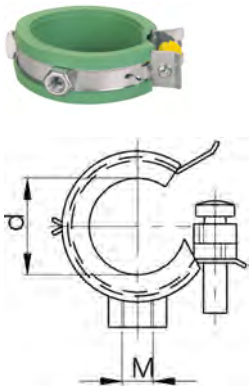
For diameter over d90 no pipe support is required

d (mm)	Code	SP	Weight (kg)	L (mm)
40	**760 854 928**	30	1.335	3000
50	**760 854 929**	30	1.662	3000
63	**760 854 930**	30	0.570	3000
75	**760 854 985**	30	2.480	3000



Pipe binder

d-d (mm)	Code	SP	Weight (kg)	L (mm)
16 - 40	**760 853 283**	100	0.000	200
50 - 75	**760 853 284**	100	0.001	300
90 - 110	**760 854 984**	100	0.003	430



Pipe clamp

d (mm)	Code	SP	Weight (kg)	M (mm)
16	**761 066 296**	50	0.039	8
20	**761 066 297**	50	0.045	8
25	**761 066 298**	50	0.053	8
32	**761 066 299**	50	0.046	8
40	**761 066 300**	50	0.071	8
50	**761 066 301**	50	0.087	8
63	**761 066 302**	50	0.134	8
75	**761 066 303**	50	0.135	8
90	**761 066 304**	10	0.156	10
110	**761 066 305**	25	0.228	10

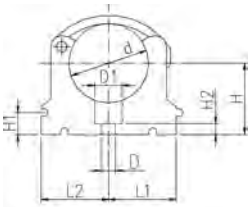


Pipe Brackets ROM

d (mm)	Code	SP	Weight (kg)
125	**761 070 337**	5	0.228
160	**761 070 338**	5	0.228
225	**761 070 343**	5	1.160









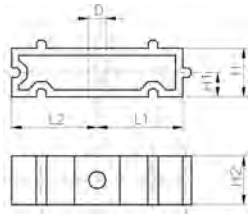
KLIP-IT pipe clip type 061 PE metric

Model:

- Material: clip PE and safety clip PP black, bolts galvanized
- **Minimum order quantity: standard packaging SP**
- Height not designed for ball valve 546 and 543. Please use spacer 73 06 11.

	d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	SC
*	16	**173 061 005**	10	0.006	6	11	14	17	23	10	6	16	M5
*	20	**173 061 006**	10	0.007	6	11	17	19	25	10	6	16	M5
*	25	**173 061 007**	10	0.009	6	11	19	22	28	10	6	16	M5
*	32	**173 061 008**	10	0.011	6	11	24	27	31	10	6	16	M5
	40	**173 061 009**	10	0.026	7	14	34	34	35	10	7	22	M6
	50	**173 061 010**	10	0.028	7	14	37	37	40	10	7	22	M6
	63	**173 061 011**	10	0.047	9	17	45	45	52	10	10	25	M8
	75	**173 061 012**	10	0.061	9	17	52	52	58	10	10	25	M8
	90	**173 061 013**	10	0.098	9	17	65	65	65	10	10	28	M8
	110	**173 061 014**	10	0.125	9	17	79	79	75	10	10	28	M8





KLIP-IT spacer type 061 PE

Model:

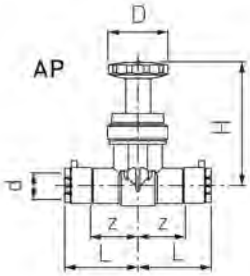
- **Minimum order quantity: standard packaging SP**
- For pipe clips type 061, PE black, UV resistant

d (mm)	Inch (inch)	Code	SP	Weight (kg)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC
16	3/8	**173 061 155**	10	0.005	6	14	17	20	10	16	M5
20	1/2	**173 061 156**	10	0.005	6	17	19	20	10	16	M5
25	3/4	**173 061 157**	10	0.006	6	19	22	20	10	16	M5
32	1	**173 061 158**	10	0.008	6	24	27	20	10	16	M5
40	1 1/4	**173 061 159**	10	0.016	7	34	34	20	10	22	M6
50	1 1/2	**173 061 160**	10	0.017	7	37	37	20	10	22	M6
63	2	**173 061 161**	10	0.025	9	45	45	20	10	25	M8
75	2 1/2	**173 061 162**	10	0.027	9	52	52	20	10	25	M8
90	3	**173 061 163**	10	0.040	9	65	65	20	10	28	M8
110	4	**173 061 164**	10	0.050	9	79	79	20	10	28	M8

Valves

PB Valves



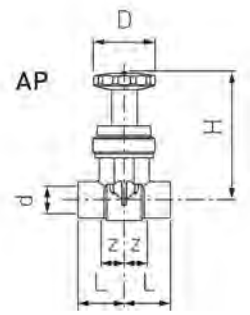


Valve BTV 2 HWS

Electro fusion quality for portable water
Gasket: EPDM, approved for potable hot and cold water
Brass: UBA conform

d (mm)	DN (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	H (mm)	z (mm)
20	15	**761 069 647**	1	0.425	55	86	112	47
25	20	**761 069 648**	1	0.427	55	89	112	47
32	25	**761 069 649**	1	0.470	55	94	112	52
40	32	**761 069 650**	1	1.237	90	112	165	65
50	40	**761 069 651**	1	1.369	90	120	165	71
63	50	**761 069 652**	1	1.851	90	141	165	90





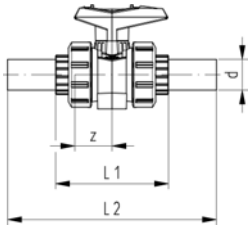
Valve BTV 2 HMS - without drain

Socket fusion
Gasket: EPDM, quality for potable water
Brass: UBA conform

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	H (mm)	z (mm)	Value (Zeta)	kv-100-value (Δp=1 bar) (l/min)
20	**761 070 304**	1	0.379	55	40	112	25	0.4	421
25	**761 070 305**	1	0.370	55	40	112	22	0.4	421
32	**761 070 306**	1	0.387	55	43	112	23	0.4	421
40	**761 070 307**	1	1.099	90	55	165	33	0.3	1291
50	**761 070 308**	1	1.151	90	60	165	35	0.3	1291
63	**761 070 309**	1	1.492	90	75	165	47	0.3	1291

Ball Valves



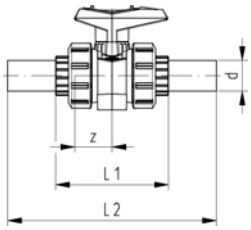


Ball valve type 546 PVC-C / PB-Spigots

Working temperture max. +70°C
* on request

	d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	z (mm)
*	20	15	10	**761 066 343**	1	0.178	95	190	33
*	25	20	10	**761 066 344**	1	0.271	108	208	38
*	32	25	10	**761 066 345**	1	0.386	118	218	39
*	40	32	10	**761 066 346**	1	0.676	137	250	47
*	50	40	10	**761 066 347**	1	0.988	147	263	49
*	63	50	10	**761 066 348**	1	1.642	168	288	46



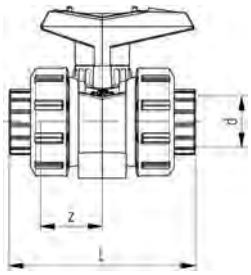


Ball valve type 546 PP / PB-Spigots

Applicable for compressed air till 10 bar
Working temperture max. +70°C
* on request

	d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	z (mm)
*	20	15	10	**760 000 343**	1	0.141	95	190	33
*	25	20	10	**760 000 344**	1	0.203	108	208	38
*	32	25	10	**760 000 345**	1	0.298	118	218	39
*	40	32	10	**760 000 346**	1	0.512	137	250	47
*	50	40	10	**760 000 347**	1	0.715	147	263	49
*	63	50	10	**760 000 348**	1	1.293	168	288	46



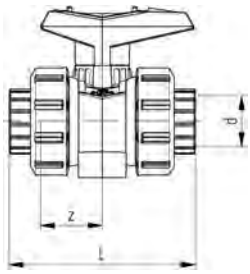


Ball valve type 546 PVC-C - PB-flange adaptor - socket fusion

For portable water installations, not DVGW approved

d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	L (mm)	z (mm)
20	15	16	**761 066 337**	1	0.160	95	33
25	20	16	**761 066 338**	1	0.243	108	38
32	25	16	**761 066 339**	1	0.349	118	39
40	32	16	**761 066 340**	1	0.614	137	47
50	40	16	**761 066 341**	1	0.838	147	49
63	50	16	**761 066 342**	1	1.546	168	46



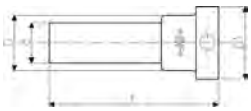


Ball valve type 546 PP - PB-flange adaptor - socket fusion

For portable water installations, not DVGW approved

d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	L (mm)	z (mm)
20	15	16	**760 000 337**	1	0.119	95	33
25	20	16	**760 000 338**	1	0.182	108	38
32	25	16	**760 000 339**	1	0.255	118	39
40	32	16	**760 000 340**	1	0.446	137	47
50	40	16	**760 000 341**	1	0.609	147	49
63	50	16	**760 000 342**	1	1.118	168	46





PB Flange adaptor flat with spigot

Suitable to ball valve 546
on request

d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	h (mm)
20	**761 069 627**	1	0.008	27	34	66
25	**761 069 628**	1	0.025	33	41	71
32	**761 069 629**	1	0.039	41	50	74
40	**761 069 630**	1	0.027	50	61	82
50	**761 069 631**	1	0.094	61	73	87
63	**761 069 632**	1	0.074	76	90	94



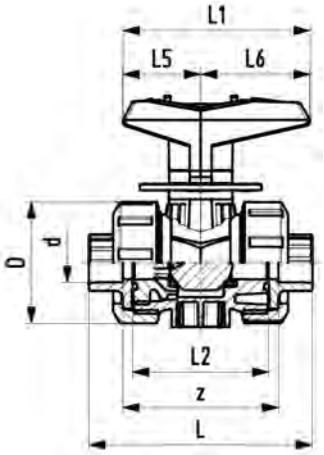
Linear ball valve type 546 PVC-C
With mounting inserts
With PB INSTAFLEX sockets metric

Model:

- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 90° with scale
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve
- Pneumatic or electric actuators from GF
- Other materials on demand



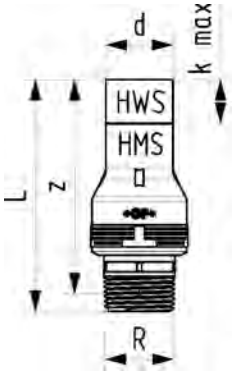
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
20	15	10	185	**761 066 349**	1	0.150
25	20	10	350	**761 066 356**	1	0.320
32	25	10	700	**761 066 357**	1	0.400
40	32	10	1000	**761 066 358**	1	0.444
50	40	10	1600	**761 066 359**	1	0.608
63	50	10	3100	**761 066 278**	1	1.290

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	z (mm)	closest inch (inch)
20	50	57	27	95	77	56	25	32	45	64	½
25	58	67	30	110	97	65	25	39	58	72	¾
32	68	73	36	123	97	71	25	39	58	79	1
40	84	90	44	146	128	85	45	54	74	94	1 ¼
50	97	97	51	157	128	89	45	54	74	95	1 ½
63	124	116	64	183	152	101	45	66	87	107	2

System Adapters

Adapters



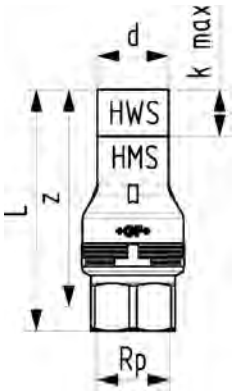


Adapter - male thread

Socket fusion transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

d (mm)	R (inch)	Code	SP	Weight (kg)	L (mm)	z (mm)	k max. (mm)
16	½	**761 069 666**	1	0.083	96	83	22
20	½	**761 069 667**	1	0.106	99	86	24
20	¾	**761 069 668**	1	0.120	101	86	24
25	¾	**761 069 669**	1	0.146	104	89	23
25	1	**761 069 670**	1	0.161	107	90	23
32	1	**761 069 671**	1	0.239	111	94	21
40	1 ¼	**761 069 672**	1	0.389	133	114	24
50	1 ½	**761 069 673**	1	0.489	138	119	22
63	2	**761 069 674**	1	0.808	156	132	21



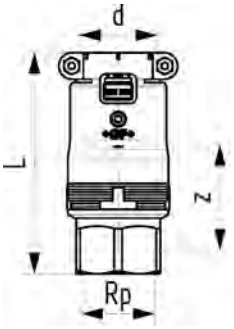


Adapter - female thread

Socket fusion transition to female thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

d (mm)	Rp (inch)	Code	SP	Weight (kg)	L (mm)	z (mm)	k max. (mm)
16	½	**761 069 675**	1	0.091	97	84	22
20	½	**761 069 676**	1	0.104	100	87	23
20	¾	**761 069 677**	1	0.132	100	85	23
25	¾	**761 069 678**	1	0.151	104	89	23
25	1	**761 069 679**	1	0.189	108	91	23
32	1	**761 069 680**	1	0.184	109	92	21
40	1 ¼	**761 069 681**	1	0.408	130	111	24
50	1 ½	**761 069 682**	1	0.564	135	116	22
63	2	**761 069 683**	1	0.789	148	124	21



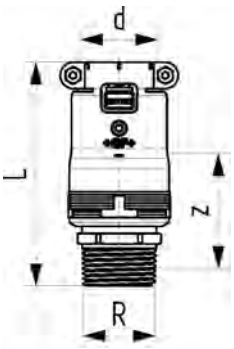


Adapter - female thread

Electro fusion transition to female thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

d (mm)	Rp (inch)	Code	SP	Weight (kg)	L (mm)	z (mm)
16	½	**761 069 702**	1	0.102	88	35
20	½	**761 069 703**	1	0.112	91	37
20	¾	**761 069 704**	1	0.137	91	35
25	¾	**761 069 705**	1	0.172	95	37
25	1	**761 069 706**	1	0.202	100	39
32	1	**761 069 707**	1	0.235	100	39
40	1 ¼	**761 069 708**	1	0.424	119	51
50	1 ½	**761 069 709**	1	0.591	124	56
63	2	**761 069 710**	1	0.836	142	65



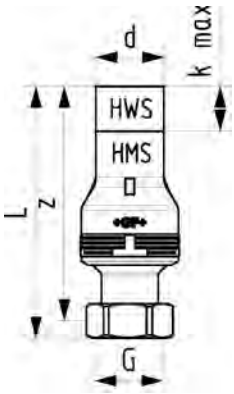


Adapter - male thread

Electro fusion transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

d (mm)	R (inch)	Code	SP	Weight (kg)	L (mm)	z (mm)
16	½	**761 069 711**	1	0.093	87	36
20	½	**761 069 712**	1	0.120	90	37
20	¾	**761 069 713**	1	0.125	92	38
25	¾	**761 069 714**	1	0.172	96	39
25	1	**761 069 715**	1	0.175	98	39
32	1	**761 069 716**	1	0.254	102	43
40	1 ¼	**761 069 717**	1	0.405	122	56
50	1 ½	**761 069 718**	1	0.526	127	61
63	2	**761 069 719**	1	0.855	150	76



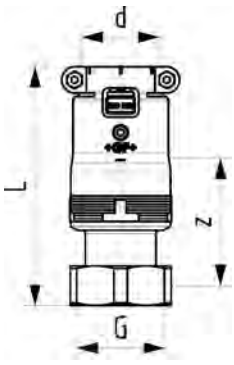


Adapter loose union nut - flat seal

Socket fusion transition to loose nut adapter concering
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved
Incl. flat seal EPDM

	d (mm)	G (inch)	Code	SP	Weight (kg)	L (mm)	z (mm)	k max. (mm)	L min. SF (mm)
	16	¾	**761 069 684**	1	0.715	100	93	22	17
	20	¾	**761 069 685**	1	0.158	102	94	24	16
	20	1	**761 069 686**	1	0.171	107	98	24	16
	25	¾	**761 069 687**	1	0.171	108	101	23	20
	25	1	**761 069 688**	1	0.211	110	102	23	20
	25	1 ¼	**761 069 689**	1	0.274	118	109	23	20
	32	1	**761 069 690**	1	0.260	118	110	21	22
	32	1 ¼	**761 069 691**	1	0.289	118	110	21	22
	32	1 ½	**761 069 692**	1	0.358	119	110	21	22
	40	1 ¼	**761 069 693**	1	0.378	134	105	24	26
	40	1 ½	**761 069 694**	1	0.402	132	124	24	24
	40	2	**761 069 695**	1	0.576	139	126	24	24
	50	1 ¾	**761 069 696**	1	0.607	142	131	22	28
	50	2 ¼	**761 069 697**	1	0.705	150	138	22	28
	63	2 ⅜	**761 069 698**	1	1.051	159	147	21	30
	63	2 ¾	**761 069 699**	1	1.177	161	146	21	30
*	16	½	**761 069 700**	1	0.125	98	91	22	16
*	20	¾	**761 069 701**	1	0.116	102	95	24	16



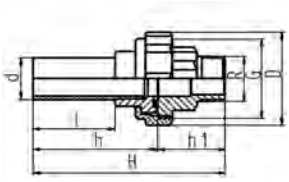


Adapter loose union nut - flat seal

Electro fusion transition to loose nut adapter
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved
Incl. flat seal EPDM

	d (mm)	G (inch)	Code	SP	Weight (kg)	L (mm)	z (mm)
	16	¾	**761 069 720**	1	0.143	90	46
	20	¾	**761 069 721**	1	0.138	92	46
	20	1	**761 069 722**	1	0.196	98	50
	25	¾	**761 069 723**	1	0.127	99	50
	25	1	**761 069 724**	1	0.192	102	51
	25	1 ¼	**761 069 725**	1	0.254	109	58
	32	1	**761 069 726**	1	0.223	109	58
	32	1 ¼	**761 069 727**	1	0.293	109	58
	32	1 ½	**761 069 728**	1	0.373	110	58
	40	1 ¼	**761 069 729**	1	0.395	123	67
	40	1 ½	**761 069 730**	1	0.479	121	64
	40	2	**761 069 731**	1	0.588	128	68
	50	1 ¾	**761 069 732**	1	0.629	131	73
	50	2 ¼	**761 069 733**	1	0.731	138	77
	63	2 ⅜	**761 069 734**	1	1.107	152	89
	63	2 ¾	**761 069 735**	1	1.225	155	89
*	16	½	**761 069 736**	1	0.162	88	44
*	20	¾	**761 069 737**	1	0.156	93	47



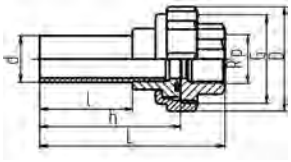


Adaptor union

Spigot for electro fusion and socket fusion - male thread
Including EPDM O-Ring, quality suitable for potable water

d (mm)	R (inch)	Code	SP	Weight (kg)	D (mm)	H (mm)	G (inch)	h (mm)	h1 (mm)	l (mm)
16	½	**760 857 200**	1	0.221	41	106	1	68	38	45
20	½	**760 857 201**	1	0.232	46	110	1 ¼	70	40	47
25	¾	**760 857 202**	1	0.340	52	117	1 ½	76	41	50
32	1	**760 857 203**	1	0.489	64	123	2	78	45	50
40	1 ¼	**760 857 204**	1	0.673	79	136	2 ½	88	48	56
50	1 ½	**760 857 205**	1	0.783	85	141	2 ¾	93	48	58
63	2	**760 857 206**	1	1.100	104	152	3 ½	98	54	60



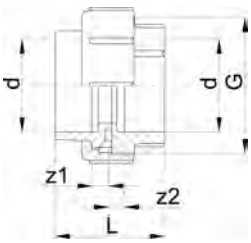


Adaptor union

Spigot for electro fusion and socket fusion - female thread
Including EPDM O-Ring, quality suitable for potable water

d (mm)	Rp (inch)	GF Code	D (mm)	L (mm)	G (inch)	l (mm)	h (mm)	z (mm)
16	½	**760 857 207**	41	90	1	45	68	9
20	½	**760 857 208**	46	94	1 ¼	47	70	10
25	¾	**760 857 209**	52	100	1 ½	50	76	9
32	1	**760 857 210**	64	103	2	50	78	8
40	1 ¼	**760 857 211**	79	114	2 ½	56	88	7
50	1 ½	**760 857 212**	85	119	2 ¾	58	93	7
63	2	**760 857 213**	104	126	3 ½	60	98	5



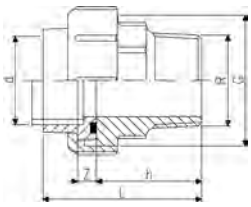


Union, socket-socket

Including EPDM O-Ring, quality suitable for potable water

d (mm)	Code	SP	Weight (kg)	G (inch)	L (mm)	z1 (mm)	z2 (mm)
16	**761 066 691**	10	0.135	1	43	8	5
20	**761 066 692**	10	0.164	1 ¼	43	8	5
25	**761 066 693**	10	0.208	1 ½	49	8	5
32	**761 066 694**	5	0.300	2	53	8	5
40	**761 066 695**	5	0.469	2 ½	59	10	5
50	**761 066 696**	2	0.525	2 ¾	65	10	5
63	**761 066 697**	2	0.766	3 ½	71	10	5



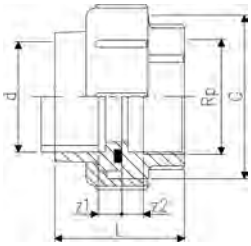


Adaptor union - socket-male thread

Including EPDM O-Ring, quality suitable for potable water

d (mm)	R (inch)	GF Code	G (inch)	L (mm)	h (mm)	z (mm)
16	½	**760 857 155**	1	61	38	8
20	½	**760 857 156**	1 ¼	63	40	8
25	¾	**760 857 157**	1 ½	67	41	8
32	1	**760 857 158**	2	73	45	8
40	1 ¼	**760 857 159**	2 ½	80	48	10
50	1 ½	**760 857 160**	2 ¾	83	48	10
63	2	**760 857 161**	3 ½	92	54	10



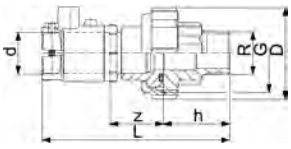


Adaptor union - socket-female thread

Including EPDM O-Ring, quality suitable for potable water

d (mm)	Rp (inch)	Code	L (mm)	z1 (mm)	z2 (mm)	G (inch)
16	½	**760 857 162**	45	8	9	1
20	½	**760 857 163**	47	8	10	11/4
25	¾	**760 857 164**	50	8	9	11/2
32	1	**760 857 165**	53	8	8	2
40	1 ¼	**760 857 166**	58	10	7	21/2
50	1 ½	**760 857 167**	61	10	7	23/4
63	2	**760 857 168**	66	10	5	31/2



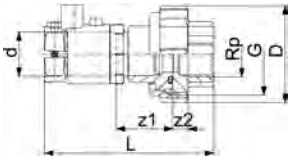


Electrofusion adaptor union

Including EPDM O-Ring, quality suitable for potable water

d (mm)	R (inch)	GF Code	D (mm)	L (mm)	G (inch)	h (mm)	z (mm)
16	½	**760 857 214**	41	106	1	38	31
20	½	**760 857 215**	50	109	1 ¼	40	30
25	¾	**760 857 216**	56	116	1 ½	41	33
32	1	**760 857 217**	69	124	2	45	37
40	1 ¼	**760 857 218**	83	137	2 ½	48	42
50	1 ½	**760 857 219**	90	143	2 ¾	48	46
63	2	**760 857 220**	110	158	3 ½	54	53





Electrofusion adaptor union

Including EPDM O-Ring, quality suitable for potable water

d (mm)	Rp (inch)	Code	D (mm)	L (mm)	G (inch)	z1 (mm)	z2 (mm)
16	½	**760 857 221**	41	90	1	31	9
20	½	**760 857 222**	50	93	1 ¼	30	10
25	¾	**760 857 223**	56	99	1 ½	33	9
32	1	**760 857 224**	69	104	2	37	8
40	1 ¼	**760 857 225**	83	115	2 ½	42	7
50	1 ½	**760 857 226**	90	121	2 ¾	46	7
63	2	**760 857 227**	110	132	3 ½	53	5

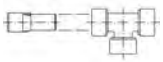


Female threaded HWS screw connection for valves

With EPDM O-ring seals Comes
With Klingerit gasket

d (mm)	G1 (inch)	Code	Weight (kg)	D (mm)	L (mm)	z1 (mm)	z2 (mm)	G (inch)
20	¾	**760 857 228**	0.245	50	89	30	10	1 ¼
25	1	**760 857 229**	0.316	56	95	33	10	1 ½
32	1 ¼	**760 857 230**	0.427	69	98	37	10	2
40	1 ½	**760 857 231**	0.705	83	112	42	11	2 ½
50	1 ¾	**760 857 232**	0.835	90	118	46	11	2 ¾
63	2 ⅜	**760 857 233**	1.233	110	127	53	11	3 ½



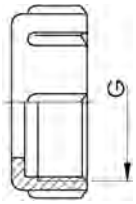


Adaptor INSTAFLEX-Hepworth

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	d (mm)	L (mm)
16	20	**761 066 326**	10	0.005	15	54

Accessories



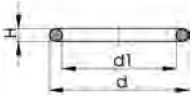


Union nut

Suitable for flange or union nut

d (mm)	G (inch)	Code	SP	Weight (kg)
16	1	**761 066 188**	130	0.090
20	1 ¼	**761 066 100**	140	0.100
25	1 ½	**761 066 101**	80	0.104
32	2	**761 066 102**	0	0.142
40	2 ½	**761 066 103**	0	0.226
50	2 ¾	**761 066 104**	0	0.261
63	3 ½	**761 066 105**	0	0.334



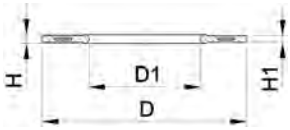


EPDM O-Ring

Quality suitable for potable water

d (mm)	Code	SP	Weight (kg)	d1 (mm)	D (mm)	H (mm)
16	**761 066 558**	0	0.002	19	26	4
20	**761 066 124**	0	0.002	23	31	4
25	**761 066 125**	0	0.001	28	35	4
32	**761 066 126**	0	0.001	36	43	4
40	**761 066 127**	0	0.004	44	55	5
50	**761 066 128**	0	0.001	53	64	5
63	**761 066 129**	0	0.002	69	80	5
75	**761 070 036**	0	0.007	82	93	5
90	**761 070 037**	0	0.008	101	112	5
110	**761 070 038**	0	0.016	120	134	7





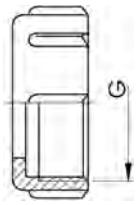
Profile flange gasket metric
For flange adaptors without chamfer

Model:

- For flange adaptor No. 27 79 85 PP-H SDR11 without chamfer
- Profile Gasket with carbon steel insert (type G-ST-P/K)
- Hardness: 70° shore **EPDM**, 75° shore **FKM**

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
20	15	16	**748 440 706**	0.009	**749 440 706**	0.013	51	20	10 - 20	4	3
25	20	16	**748 440 707**	0.015	**749 440 707**	0.014	61	22	12 - 22	4	3
32	25	16	**748 440 708**	0.013	**749 440 708**	0.019	71	28	18 - 28	4	3
40	32	16	**748 440 709**	0.019	**749 440 709**	0.026	82	40	30 - 40	4	3
50	40	16	**748 440 710**	0.029	**749 440 710**	0.039	92	46	36 - 46	4	3
63	50	16	**748 440 711**	0.041	**749 440 711**	0.050	107	58	48 - 58	5	4
75	65	16	**748 440 712**	0.053	**749 440 712**	0.082	127	69	59 - 69	5	4
90	80	16	**748 440 713**	0.064	**749 440 713**	0.083	142	84	73 - 84	5	4





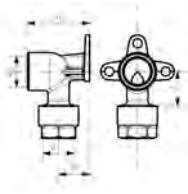
Union nut

Suitable for flange adaptor and union

d (mm)	G (inch)	Code	SP	Weight (kg)
16	1	**761 066 980**	10	0.120
20	1 ¼	**761 066 971**	10	0.090
25	1 ½	**761 066 972**	10	0.110
32	2	**761 066 973**	10	0.130
40	2 ½	**761 066 974**	10	0.180
50	2 ¾	**766 066 975**	10	0.210
63	3 ½	**766 066 976**	2	0.280

Pipe Outlets



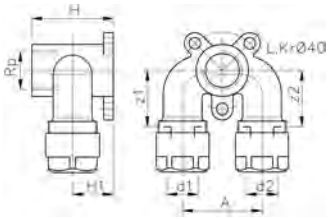


Single pipe outlet - flange

Screw 760 856 040, self tapping M6 x 16
* for GIS wall mounting

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	H (mm)	H1 (mm)	z (mm)
	16	½	**760 857 007**	10	0.180	44	22	28
	16	½	**760 857 008**	2	0.279	60	22	28
	16	½	**760 857 009**	2	0.319	80	22	28
*	16	½	**760 857 010**	2	0.333	100	22	28
	20	½	**760 857 011**	10	0.213	44	25	28
	20	¾	**760 857 012**	1	0.313	44	25	28



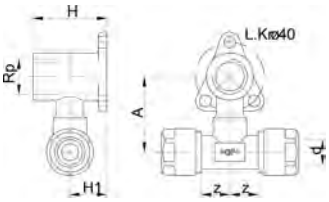


Dual pipe outlet - flange

Screw 760 856 040, self tapping M6 x 16
* for GIS wall mounting

	d1 (mm)	d2 (mm)	Rp (inch)	Code	SP	Weight (kg)	H (mm)	H1 (mm)	z1 (mm)	z2 (mm)	A (mm)
	16	16	½	**760 857 013**	1	0.380	44	22	30	30	40
*	16	16	½	**760 857 014**	1	0.501	100	22	30	30	40
	20	20	½	**760 857 015**	1	0.439	44	25	32	32	40



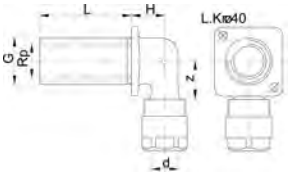


Dual pipe outlet - flange

Screw 760 856 040, self tapping M6 x 16

d (mm)	Rp (inch)	Code	SP	Weight (kg)	H (mm)	H1 (mm)	z (mm)
16	½	**760 853 014**	10	0.344	44	22	19



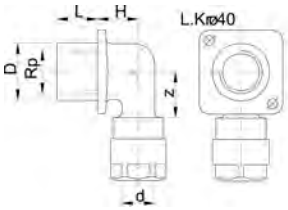


Single pipe outlet - mounting flange

Screw 760 856 040, self tapping M6 x 16
* on request

	d (mm)	Rp (inch)	G (inch)	Code	SP	Weight (kg)	L (mm)	H (mm)	z (mm)
	16	½	¾	**760 856 041**	2	0.236	30	20	26
*	16	½	¾	**760 856 050**	2	0.254	42	20	26
*	16	½	¾	**760 869 906**	2	0.273	55	20	26



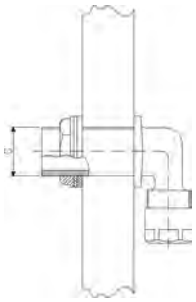


Single pipe outlet - mounting flange

Screw 760 856 040, self tapping M6 x 16

d (mm)	Rp (inch)	Code	SP	Weight (kg)	D (mm)	L (mm)	H (mm)	z (mm)
16	½	**760 869 904**	2	0.222	27	20	22	26



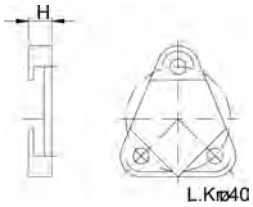


Fastening set

Appropriate to outlet joint - male thread
Consists of: Union nut washer, seal
From the INSTAFLEX range

G (inch)	Code	SP	Weight (kg)
¾	**760 854 699**	10	0.031





Rubber isolator for pipe outlets

Suitable for dual pipe outlets

H (mm)	Code	SP	Weight (kg)	z (mm)
9	**760 856 205**	20	0.007	3





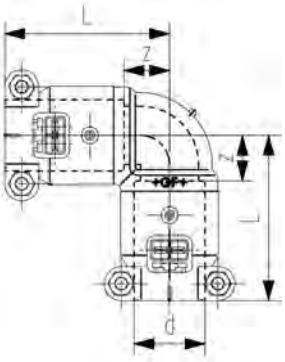
Mounting bolt

G (inch)	Code	SP	Weight (kg)
½	**760 853 291**	5	0.138

Electrofusion jointing HWS

Fittings

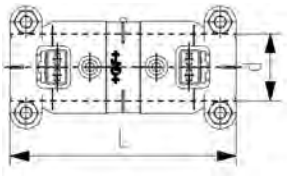




Electro fusion elbow 90°

d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
16	**761 069 214**	1	0.023	47	10
20	**761 069 215**	1	0.027	54	14
25	**761 069 216**	1	0.039	58	16
32	**761 069 217**	1	0.079	60	18
40	**761 069 218**	1	0.128	69	22
50	**761 069 219**	1	0.206	78	29
63	**761 069 220**	1	0.328	86	36
75	**761 069 221**	1	0.515	112	45
90	**761 069 222**	1	0.811	127	54
110	**761 069 223**	1	1.330	146	66



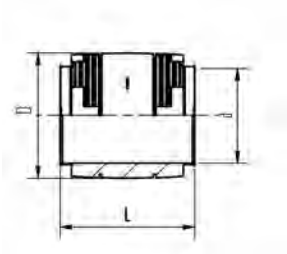


Electro fusion coupler

Suitable as sliding coupling

d (mm)	Code	SP	Weight (kg)	L (mm)
16	**761 069 200**	1	0.023	76
20	**761 069 201**	1	0.027	80
25	**761 069 202**	1	0.041	85
32	**761 069 203**	1	0.053	85
40	**761 069 204**	1	0.084	95
50	**761 069 205**	1	0.121	99
63	**761 069 206**	1	0.184	102
75	**761 069 265**	1	0.317	134
90	**761 069 266**	1	0.519	147
110	**761 069 267**	1	0.766	160

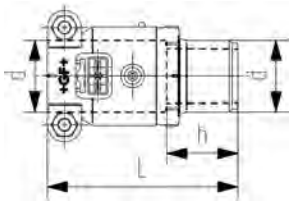




Electro fusion coupler - PN16

d (mm)	Code	SP	Weight (kg)	L (mm)
125	**761 069 555**	1	1.500	186
160	**761 069 556**	1	1.397	190
225	**761 069 557**	1	4.472	220



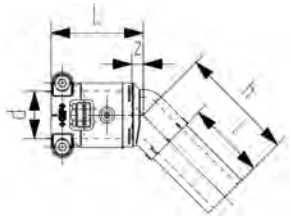


Electro fusion adaptor

Transition to socket fusion - HMS

d (mm)	Code	SP	Weight (kg)	L (mm)	h (mm)
16	**761 069 207**	1	0.026	60	23
20	**761 069 208**	1	0.017	61	22
25	**761 069 209**	1	0.026	67	25
32	**761 069 210**	1	0.037	71	29
40	**761 069 211**	1	0.060	79	32
50	**761 069 212**	1	0.095	85	36
63	**761 069 213**	1	0.151	94	43

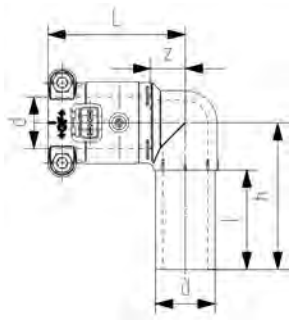




Elbow 45° socket-spigot

d (mm)	Code	SP	Weight (kg)	L (mm)	l (mm)	h (mm)	z (mm)
16	**761 069 447**	1	0.014	44	38	50	6
20	**761 069 448**	1	0.030	46	40	54	7
25	**761 069 449**	1	0.042	50	42	57	8
32	**761 069 450**	1	0.055	51	42	60	9
40	**761 069 451**	1	0.098	58	47	67	11
50	**761 069 452**	1	0.156	63	49	75	14
63	**761 069 453**	1	0.242	68	51	79	17



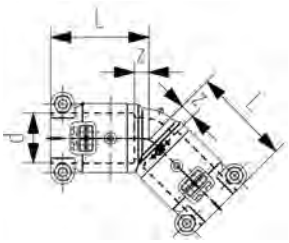


Elbow 90° socket-spigot

d (mm)	Code	SP	Weight (kg)	L (mm)	l (mm)	h (mm)	z (mm)
16	**761 069 434**	1	0.025	47	40	53	10
20	**761 069 435**	1	0.035	54	40	58	14
25	**761 069 436**	1	0.047	58	42	62	16
32	**761 069 437**	1	0.071	60	42	66	18
40	**761 069 438**	1	0.113	69	47	77	22
50	**761 069 439**	1	0.181	78	49	85	29
63	**761 069 440**	1	0.290	86	51	96	36

Electro fusion elbow 45°

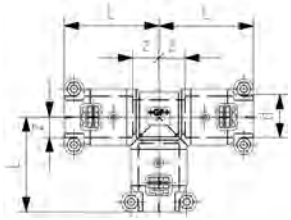




d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
16	**761 069 227**	1	0.033	44	6
20	**761 069 228**	1	0.027	46	7
25	**761 069 229**	1	0.039	50	8
32	**761 069 230**	1	0.059	51	9
40	**761 069 231**	1	0.070	58	11
50	**761 069 232**	1	0.147	63	14
63	**761 069 233**	1	0.275	68	17
75	**761 069 234**	1	0.451	88	21
90	**761 069 235**	1	0.700	98	25
110	**761 069 236**	1	1.098	111	31

Electro fusion T-piece 90°- equal

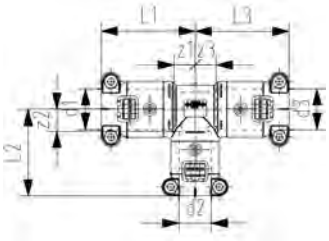




d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
16	**761 069 237**	1	0.053	47	10
20	**761 069 238**	1	0.067	54	14
25	**761 069 239**	1	0.089	58	16
32	**761 069 240**	1	0.116	60	18
40	**761 069 241**	1	0.185	69	22
50	**761 069 242**	1	0.290	78	29
63	**761 069 243**	1	0.452	86	36
75	**761 069 244**	1	0.747	112	45
90	**761 069 245**	1	0.890	127	54
110	**761 069 246**	1	1.884	146	66

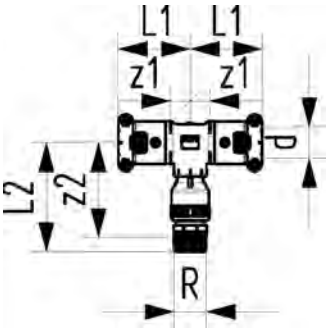
Electro fusion T-piece 90° - reducer





d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	L3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
20	16	16	**761 069 249**	1	0.058	54	47	47	14	10	10
20	16	20	**761 069 250**	1	0.041	54	49	54	14	11	14
25	16	25	**761 069 251**	1	0.082	58	54	58	16	16	16
25	20	20	**761 069 256**	1	0.079	58	54	54	16	14	14
25	20	25	**761 069 252**	1	0.079	58	54	58	16	14	16
25	25	20	**761 069 257**	1	0.081	58	58	54	16	16	14
32	20	32	**761 069 253**	1	0.088	60	58	60	18	18	18
32	25	25	**761 069 258**	1	0.098	60	58	58	18	16	16
32	25	32	**761 069 254**	1	0.095	60	58	60	18	16	18
40	20	40	**761 069 259**	1	0.157	69	63	69	22	23	22
40	25	40	**761 069 255**	1	0.170	69	63	69	22	21	22
40	32	40	**761 069 260**	1	0.168	69	63	69	22	21	22
50	25	50	**761 069 261**	1	0.246	78	72	78	29	30	29
50	32	50	**761 069 262**	1	0.260	78	72	78	29	30	29
63	25	63	**761 069 263**	1	0.360	86	81	86	36	39	36
63	40	63	**761 069 264**	1	0.384	86	85	86	36	38	36



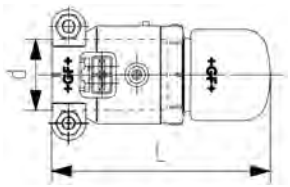


Electro fusion adapter T-piece 90° - male thread

Electro fusion T-piece with transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

d (mm)	R (inch)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)
25	¾	**761 069 738**	1	0.177	58	88	16	73
32	1	**761 069 739**	1	0.246	60	97	18	80

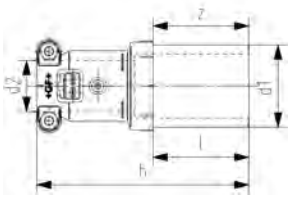




Electro fusion - end cap

d (mm)	Code	SP	Weight (kg)	L (mm)
16	**761 069 270**	1	0.022	67
20	**761 069 271**	1	0.025	70
25	**761 069 272**	1	0.036	77
32	**761 069 273**	1	0.054	83
40	**761 069 274**	1	0.095	95
50	**761 069 275**	1	0.153	104
63	**761 069 276**	1	0.265	116

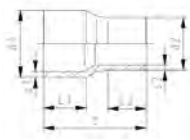




Electro fusion - reducer

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)	h (mm)	z (mm)
20	16	**761 069 277**	1	0.023	40	83	45
25	16	**761 069 278**	1	0.026	42	83	46
25	20	**761 069 279**	1	0.026	42	86	47
32	16	**761 069 457**	1	0.033	42	86	48
32	20	**761 069 280**	1	0.030	42	84	45
32	25	**761 069 281**	1	0.038	42	89	47
40	20	**761 069 458**	1	0.055	47	102	62
40	25	**761 069 459**	1	0.060	47	104	62
40	32	**761 069 282**	1	0.060	47	95	53
50	20	**761 069 460**	1	0.070	49	102	62
50	25	**761 069 461**	1	0.075	49	104	62
50	32	**761 069 462**	1	0.075	49	95	53
50	40	**761 069 283**	1	0.091	49	103	56
63	20	**761 069 463**	1	0.096	51	102	62
63	25	**761 069 464**	1	0.109	51	104	62
63	32	**761 069 284**	1	0.101	51	95	53
63	40	**761 069 465**	1	0.121	51	103	56
63	50	**761 069 285**	1	0.141	51	106	57
75	63	**761 069 286**	1	0.232	67	129	78
90	63	**761 069 287**	1	0.289	74	128	77
90	75	**761 069 288**	1	0.354	74	143	76
110	63	**761 069 289**	1	0.414	80	135	84
110	75	**761 069 290**	1	0.464	80	150	83
110	90	**761 069 291**	1	0.576	80	165	92



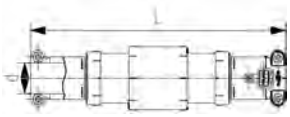


Reducer

- Material: PB

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	z (mm)
125	110	**761 065 267**	1	0.729	92	85	215
160	125	**761 065 268**	1	1.263	102	92	245
225	160	**761 065 269**	1	2.800	122	102	280
315	225	**761 065 322**	1	7.933	502	155	158



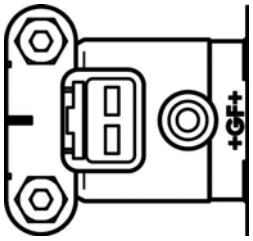


Sliding sleeves

* on request

	d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
*	20	**761 069 623**	1	0.093	168	90
*	25	**761 069 624**	1	0.168	208	124
*	32	**761 069 625**	1	0.219	190	106
*	40	**761 069 626**	1	0.362	206	112



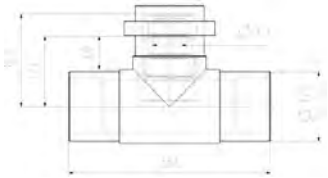


Bracket clamp

* on request

	d (mm)	Code	SP	Weight (kg)
*	16	**761 069 490**	10	0.016
*	20	**761 069 491**	10	0.018
*	25	**761 069 492**	10	0.023
*	32	**761 069 493**	6	0.030
*	40	**761 069 494**	6	0.050
*	50	**761 069 495**	6	0.073
*	63	**761 069 496**	6	0.102
*	75	**761 069 497**	6	0.166
*	90	**761 069 498**	4	0.244
*	110	**761 069 499**	4	0.380

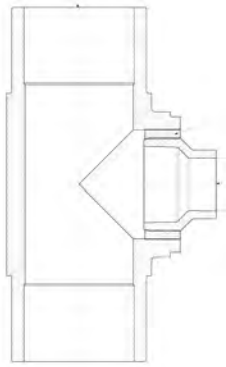
Segment Fittings



T-piece - reducer / flange

Prefabricated elbow with short end for electro fusion socket
GF customized quality, pre-peeled, swiss made
Single packed in plastic bags
* on request

	d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)
*	125	63	125	**761 065 297**	0	0.001	167	366
*	125	75	125	**761 065 302**	0	5.540	173	366
*	125	110	125	**761 065 301**	0	0.001	180	420
*	160	125	160	**761 065 313**	0	5.784	340	420
*	160	75	160	**761 065 299**	0	17.920	208	420
*	160	90	160	**761 065 300**	0	0.001	216	420

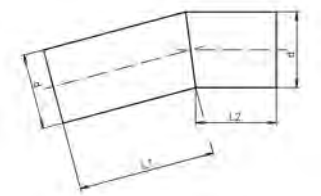


T-piece - reducer

Prefabricated elbow with short end for electro fusion socket
GF customized quality, pre-peeled, swiss made
Single packed in plastic bags
* on request

	d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)
*	125	63	125	**761 070 263**	0	0.001	90	336
*	160	63	160	**761 070 264**	0	0.001	120	420

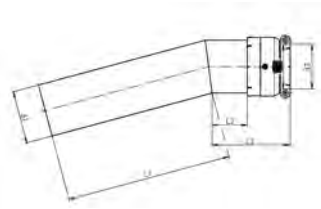




Elbow 15°

Prefabricated elbow with short and long ends for electro fusion fittings
GF customized quality, pre-peeled, swiss made
Single packed in plastic bags
* on request

	d (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)
*	63	**761 069 589**	1	0.306	180	65
*	75	**761 069 590**	1	0.576	236	80
*	90	**761 069 591**	1	0.824	265	85
*	110	**761 069 592**	1	1.340	292	100

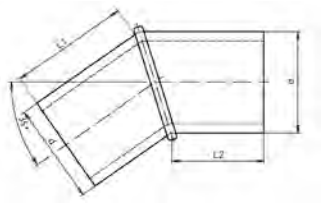


Elbow 15°

Prefabricated elbow with short end for electro fusion socket
GF customized quality, pre-peeled, swiss made
Single packed in plastic bags
* on request

	d-d (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	L3 (mm)
*	75 - 63	**761 069 599**	1	0.306	236	50	111
*	90 - 75	**761 069 600**	1	0.500	265	55	125
*	110 - 90	**761 069 601**	1	0.706	292	60	145





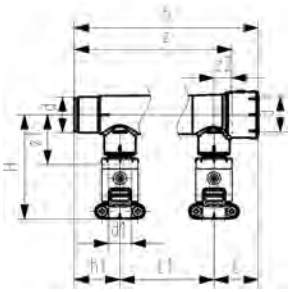
Elbow 35°

Prefabricated elbow with two short ends for electro fusion fittings
GF customized quality, pre-peeled, swiss made
Single packed in plastic bags
* on request

	d (mm)	Code	SP	Weight (kg)	L1 (mm)
*	110	**761 069 665**	1	1.500	100

Manifolds





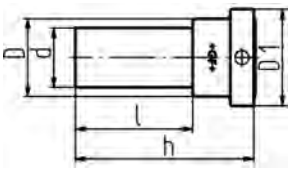
Polybutene Manifold for electro fusion

Electro fusion connections

	d (mm)	d1 (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	H (mm)	h (mm)	h1 (mm)	z (mm)	z1 (mm)	z2 (mm)
single	25	16	**761 066 250**	1	0.040	31	0	60	63	32	45	36	13
single	25	20	**761 066 251**	1	0.050	39	0	64	78	39	60	35	21
double	25	16	**761 066 252**	1	0.074	31	45	60	108	32	90	36	13
triple	25	16	**761 066 253**	1	0.112	31	45	60	153	32	135	36	13
4 fold	25	16	**761 066 254**	1	0.144	31	45	60	198	32	180	36	13

Flange Adapters



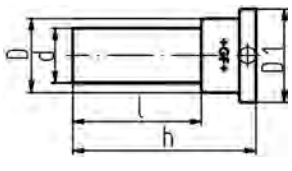


Flange adaptor flat with groove and spigots for electro fusion

Suitable for flange or union nut
Including EPDM O-Ring, quality suitable for potable water
* on request

	d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	l (mm)	h (mm)
*	16	**761 069 306**	5	0.011	22	29	45	68
*	20	**761 069 307**	1	0.018	27	34	47	70
*	25	**761 069 308**	1	0.023	33	41	50	76
*	32	**761 069 309**	1	0.039	41	50	50	78
*	40	**761 069 310**	1	0.061	50	61	56	88
*	50	**761 069 311**	1	0.096	61	73	58	93
*	63	**761 069 312**	1	0.168	76	90	60	98
*	75	**761 069 313**	1	0.343	90	106	118	158
*	90	**761 069 314**	1	0.515	109	125	125	172
*	110	**761 069 315**	1	0.840	131	150	131	186



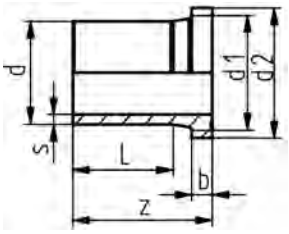


Flange adaptor flat with spigot for electro fusion

Suitable for flange or union nut
* on request

	d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	l (mm)	h (mm)
*	20	**761 069 321**	1	0.017	27	34	45	67
*	25	**761 069 322**	1	0.021	33	41	50	73
*	32	**761 069 323**	1	0.034	41	50	50	75
*	40	**761 069 324**	1	0.066	50	61	56	83
*	50	**761 069 325**	1	0.091	61	73	58	88
	63	**761 069 326**	1	0.172	76	90	60	93
	75	**761 069 327**	1	0.311	90	106	118	153
	90	**761 069 328**	1	0.469	109	125	125	167
	110	**761 069 329**	1	0.770	131	150	131	180





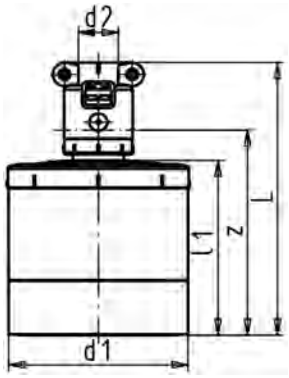
Flange adaptor - flat

- Material: PB

d (mm)	Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	L (mm)	b (mm)	z (mm)
125	**761 065 264**	1	0.864	132	162	123	25	170
160	**761 065 265**	1	1.667	176	218	147	25	200
225	**761 065 266**	1	3.003	236	274	122	32	200
315	**761 065 323**	1	5.227	336	371	170	36	291

Special Reducers



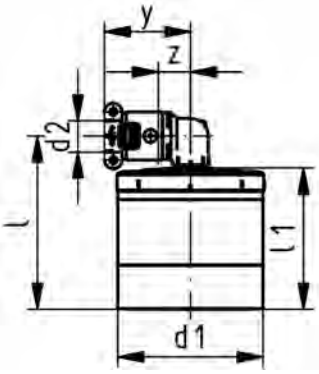


Special reducer with adaptor

* on request

	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)	l1 (mm)	z (mm)
*	75	16	**761 069 604**	1	0.212	134	88	97
*	75	20	**761 069 605**	1	0.216	134	88	95
*	75	25	**761 069 606**	1	0.221	137	88	95
*	75	32	**761 069 607**	1	0.237	139	88	97
*	75	40	**761 069 608**	1	0.254	145	88	98
*	75	50	**761 069 609**	1	0.270	148	88	99
*	90	16	**761 069 610**	1	0.254	133	87	96
*	90	20	**761 069 611**	1	0.265	133	87	94
*	90	25	**761 069 612**	1	0.267	136	87	94
*	90	32	**761 069 613**	1	0.277	138	87	96
*	90	40	**761 069 614**	1	0.297	144	87	97
*	90	50	**761 069 615**	1	0.322	147	87	98
*	110	16	**761 069 518**	1	0.405	140	94	103
*	110	20	**761 069 519**	1	0.405	140	94	101
*	110	25	**761 069 520**	1	0.414	143	94	101
*	110	32	**761 069 521**	1	0.433	145	94	103
*	110	40	**761 069 522**	1	0.461	151	94	104
*	110	50	**761 069 523**	1	0.469	154	94	105



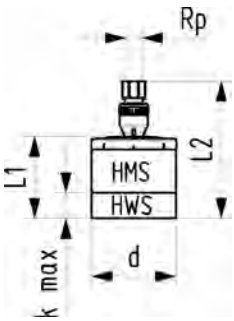


Special reducer with transition on elbow

* additional diameter on request

	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)	l1 (mm)	z (mm)	y (mm)
*	75	20	**761 069 619**	1	0.228	109	88	14	54
*	75	25	**761 069 524**	1	0.235	111	88	16	58
*	75	32	**761 069 525**	1	0.249	115	88	18	60
*	75	40	**761 069 526**	1	0.300	121	88	22	96
*	75	50	**761 069 527**	1	0.326	127	88	29	78
*	90	20	**761 069 620**	1	0.273	108	87	14	54
	90	25	**761 069 528**	1	0.283	110	87	16	58
*	90	32	**761 069 529**	1	0.300	114	87	18	60
*	90	40	**761 069 530**	1	0.350	120	87	22	69
*	90	50	**761 069 531**	1	0.415	126	87	29	78
*	110	20	**761 069 621**	1	0.423	115	94	14	54
*	110	25	**761 069 532**	1	0.435	117	94	16	58
*	110	32	**761 069 533**	1	0.453	121	94	18	60
*	110	40	**761 069 534**	1	0.500	127	94	22	69
*	110	50	**761 069 535**	1	0.565	183	94	29	78



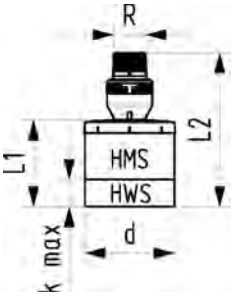


Special reducer - female thread

Special reducer transition to female thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

d (mm)	Rp (inch)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	k max. (mm)
75	½	**761 069 749**	1	0.291	88	148	26
75	¾	**761 069 750**	1	0.339	88	149	26
75	1	**761 069 751**	1	0.414	88	154	26
90	½	**761 069 752**	1	0.344	87	147	27
90	¾	**761 069 753**	1	0.392	87	148	27
90	1	**761 069 754**	1	0.467	87	153	27
110	½	**761 069 755**	1	0.486	94	154	28
110	¾	**761 069 756**	1	0.534	94	155	28
110	1	**761 069 757**	1	0.609	94	160	28



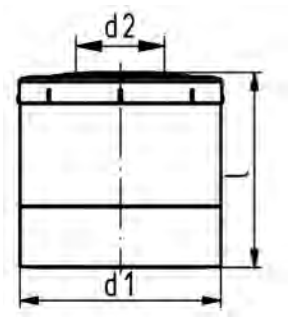


Special reducer - male thread

Special reducer transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

d (mm)	R (inch)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	k max. (mm)
75	½	**761 069 740**	1	0.285	88	147	26
75	¾	**761 069 741**	1	0.316	88	150	26
75	1	**761 069 742**	1	0.393	88	156	26
90	½	**761 069 743**	1	0.338	87	146	27
90	¾	**761 069 744**	1	0.369	87	149	27
90	1	**761 069 745**	1	0.446	87	155	27
110	½	**761 069 746**	1	0.480	94	153	28
110	¾	**761 069 747**	1	0.511	94	156	28
110	1	**761 069 748**	1	0.588	94	156	28



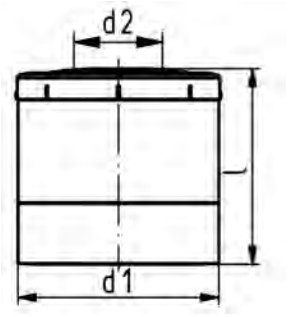


Special reducer

Not predrilled
Not suitable as end cap

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)
75	16 - 50	**761 069 454**	1	0.187	88
90	16 - 50	**761 069 455**	1	0.240	87
110	16 - 50	**761 069 456**	1	0.382	94





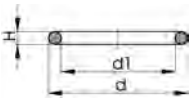
Special reducer - predrilled

Drilled hole d16 to d50
* on request

	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)
*	75	16	**761 069 500**	1	0.193	88
*	75	20	**761 069 501**	1	0.214	88
*	75	25	**761 069 502**	1	0.200	88
*	75	32	**761 069 503**	1	0.182	88
*	75	40	**761 069 504**	1	0.175	88
*	75	50	**761 069 505**	1	0.161	88
*	90	16	**761 069 506**	1	0.254	87
*	90	20	**761 069 507**	1	0.242	87
*	90	25	**761 069 508**	1	0.240	87
*	90	32	**761 069 509**	1	0.236	87
*	90	40	**761 069 510**	1	0.226	87
*	90	50	**761 069 511**	1	0.213	87
*	110	16	**761 069 512**	1	0.400	94
*	110	20	**761 069 513**	1	0.387	94
*	110	25	**761 069 514**	1	0.373	94
*	110	32	**761 069 515**	1	0.376	94
*	110	40	**761 069 516**	1	0.372	94
*	110	50	**761 069 517**	1	0.357	94

Accessories

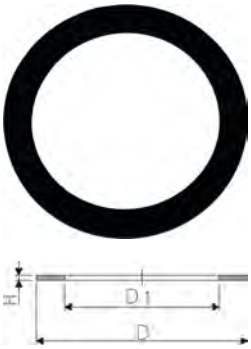




EPDM O-Ring

Quality suitable for potable water

d (mm)	Code	SP	Weight (kg)	d1 (mm)	D (mm)	H (mm)
16	**761 066 558**	0	0.002	19	26	4
20	**761 066 124**	0	0.002	23	31	4
25	**761 066 125**	0	0.001	28	35	4
32	**761 066 126**	0	0.001	36	43	4
40	**761 066 127**	0	0.004	44	55	5
50	**761 066 128**	0	0.001	53	64	5
63	**761 066 129**	0	0.002	69	80	5
75	**761 070 036**	0	0.007	82	93	5
90	**761 070 037**	0	0.008	101	112	5
110	**761 070 038**	0	0.016	120	134	7



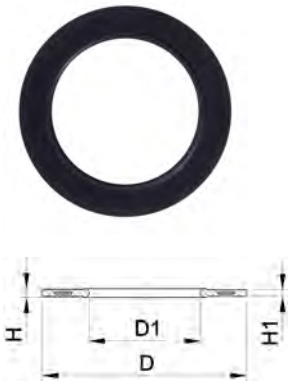
Flat gasket

Model:

- Hardness approx. 65° Shore
- For adaptor unions

Size (inch)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)
¼	**748 400 004**	0.002			20	13	2
⅜	**748 400 005**	0.002	**749 400 005**	0.020	24	17	2
½	**748 400 006**	0.002	**749 400 006**	0.003	30	21	3
¾	**748 400 007**	0.003	**749 400 007**	0.004	38	27	3
1	**748 400 008**	0.002	**749 400 008**	0.002	44	32	3
1 ¼	**748 400 009**	0.007	**749 400 009**	0.003	55	42	3
1 ½	**748 400 010**	0.004	**749 400 010**	0.007	62	46	3
2	**748 400 011**	0.005	**749 400 011**	0.006	78	60	3
2 ½	**748 400 012**	0.010	**749 400 012**	0.009	97	75	3
3	**748 400 013**	0.011	**749 400 013**	0.011	109	88	3

Flanges



Profile flange gasket metric
For flange adaptors without chamfer

Model:

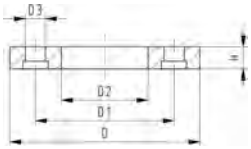
- For flange adaptor No. 27 79 85 PP-H SDR11 without chamfer
- Profile Gasket with carbon steel insert (type G-ST-P/K)
- Hardness: 70° shore **EPDM**, 75° shore **FKM**

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
20	15	16	**748 440 706**	0.009	**749 440 706**	0.013	51	20	10 - 20	4	3
25	20	16	**748 440 707**	0.015	**749 440 707**	0.014	61	22	12 - 22	4	3
32	25	16	**748 440 708**	0.013	**749 440 708**	0.019	71	28	18 - 28	4	3
40	32	16	**748 440 709**	0.019	**749 440 709**	0.026	82	40	30 - 40	4	3
50	40	16	**748 440 710**	0.029	**749 440 710**	0.039	92	46	36 - 46	4	3
63	50	16	**748 440 711**	0.041	**749 440 711**	0.050	107	58	48 - 58	5	4
75	65	16	**748 440 712**	0.053	**749 440 712**	0.082	127	69	59 - 69	5	4
90	80	16	**748 440 713**	0.064	**749 440 713**	0.083	142	84	73 - 84	5	4



Backing flanges PN 16 IPP

Material: Casting, GFK coated
Suitable for flange adaptor
Tighten the screws with torque as indicated
Commercially available scews, nuts, washers
* on request



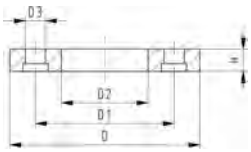
	d (mm)	Code	SP	Weight (kg)
*	20	**761 065 270**	2	0.378
*	25	**761 065 271**	2	0.463
	32	**761 065 272**	2	0.412
	40	**761 065 273**	2	0.551
	50	**761 065 274**	2	0.747
	63	**761 065 275**	2	0.842
	75	**761 065 276**	2	1.131
	90	**761 065 277**	2	1.092
	110	**761 065 278**	2	1.465

	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	Tightening torque (mm)	○	SC
*	20	106	65	28	14	18	10	4	M 12x 70
*	25	118	75	34	14	18	15	4	M 12x 75
	32	122	85	42	14	17	15	4	M 12x 75
	40	142	100	51	18	17	20	4	M 16x 80
	50	156	110	62	18	19	25	4	M 16x 85
	63	171	125	78	18	20	35	4	M 16x 85
	75	191	145	92	18	21	40	4	M 16x 90
	90	206	160	110	18	21	40	8	M 16x 90
	110	226	180	133	18	22	50	8	M 16x 95



Backing flanges

d (mm)	Code	SP	Weight (kg)
125	**761 065 279**	2	1.284
160	**761 065 280**	2	2.406
225	**761 065 281**	2	3.600

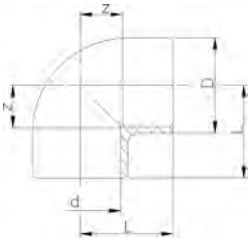


d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	AL	Screws	Tightening torque (mm)
125	226	180	135	18	23	8	M16 x 130	50
160	296	240	178	22	28	8	M20 x 140	60
225	350	295	238	22	31	8	M20 x 160	75

Socket fusion jointing HMS

Fittings

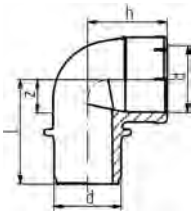




Elbow 90°

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
16	**761 066 600**	10	0.014	22	25	10
20	**761 066 601**	10	0.015	26	28	13
25	**761 066 602**	10	0.020	32	32	14
32	**761 066 603**	10	0.035	40	38	18
40	**761 066 604**	5	0.080	51	44	22
50	**761 066 605**	5	0.116	64	51	26
63	**761 066 606**	2	0.217	81	62	34
75	**761 066 607**	2	0.303	91	75	44
90	**761 066 608**	2	0.466	108	88	52
110	**761 066 609**	2	0.856	132	105	63





Elbow 90° - socket spigot

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	h (mm)	z (mm)
16	**761 066 900**	10	0.009	22	34	25	10
20	**761 066 901**	10	0.012	26	36	28	13
25	**761 066 902**	10	0.021	32	44	32	14
32	**761 066 903**	10	0.037	40	50	38	18
40	**761 066 904**	5	0.067	51	58	44	22
50	**761 066 905**	5	0.122	64	70	51	26
63	**761 066 906**	2	0.233	81	82	62	34



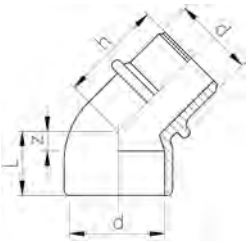


Elbow 45°

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
16	**761 066 610**	10	0.008	22	21	6
20	**761 066 611**	10	0.016	26	22	7
25	**761 066 612**	10	0.026	32	25	7
32	**761 066 613**	10	0.030	40	30	10
40	**761 066 614**	5	0.064	51	34	12
50	**761 066 615**	5	0.093	64	39	14
63	**761 066 616**	2	0.145	81	45	17
75	**761 066 617**	2	0.223	92	51	20
90	**761 066 618**	2	0.337	109	58	22
110	**761 066 619**	2	0.616	134	68	26

Elbow 45° - socket spigot





d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	h (mm)	z (mm)
16	**761 066 907**	10	0.008	22	21	29	6
20	**761 066 908**	10	0.011	26	22	30	7
25	**761 066 909**	10	0.017	32	25	35	7
32	**761 066 910**	10	0.032	40	30	40	10
40	**761 066 911**	5	0.284	51	34	46	12
50	**761 066 912**	5	0.101	64	39	53	14
63	**761 066 913**	2	0.258	81	45	62	17

T-piece 90° - equal

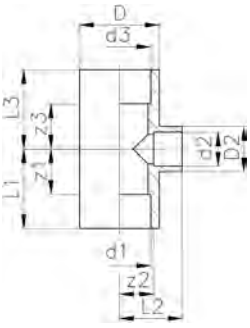




d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
16	**761 066 620**	10	0.017	22	25	10
20	**761 066 621**	10	0.025	26	28	13
25	**761 066 622**	10	0.036	32	32	14
32	**761 066 623**	10	0.045	40	38	18
40	**761 066 624**	5	0.105	51	44	22
50	**761 066 625**	5	0.147	64	51	26
63	**761 066 626**	2	0.315	81	62	34
75	**761 066 627**	2	0.375	91	75	44
90	**761 066 628**	2	0.694	112	88	52
110	**761 066 629**	2	1.120	132	105	63

T-piece 90° - reduced

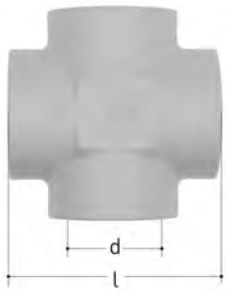


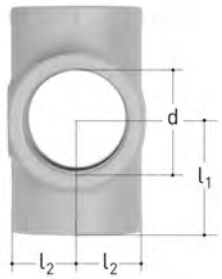


d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	D (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
20	16	20	**761 066 914**	10	0.015	26	22	28	28	28	13	13	13
20	16	16	**761 066 915**	10	0.016	26	22	28	28	28	13	13	13
20	20	16	**761 066 916**	10	0.017	26	26	28	28	28	13	13	13
25	16	25	**761 066 917**	10	0.025	32	26	32	32	32	14	17	14
25	20	25	**761 066 918**	10	0.025	32	26	32	32	32	14	17	14
25	20	20	**761 066 919**	10	0.026	32	26	32	32	32	14	17	17
25	25	20	**761 066 920**	10	0.027	32	32	32	32	32	14	14	17
32	16	32	**761 066 921**	10	0.041	40	26	38	38	38	18	23	18
32	20	32	**761 066 922**	5	0.284	40	26	38	38	38	18	23	18
32	25	32	**761 066 923**	10	0.036	40	32	38	38	38	18	20	18
40	16	40	**761 066 295**	5	0.083	51	34	44	44	44	22	29	22
40	25	40	**761 066 924**	5	0.077	51	34	44	44	44	22	26	22
40	32	40	**761 068 049**	5	0.076	51	40	44	44	44	22	24	22
50	16	50	**761 066 309**	5	0.135	64	34	51	51	51	26	36	26
50	25	50	**761 066 925**	5	0.131	64	34	51	51	51	26	33	26
50	32	50	**761 068 050**	5	0.133	64	40	51	51	51	26	31	26
63	16	63	**761 066 310**	2	0.257	81	35	62	62	62	34	47	34
63	25	63	**761 066 926**	5	0.252	81	35	62	62	62	34	44	34
63	32	63	**761 068 051**	5	0.255	81	40	62	62	62	34	42	34

Cross, PN 16



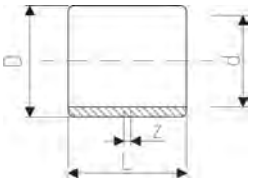




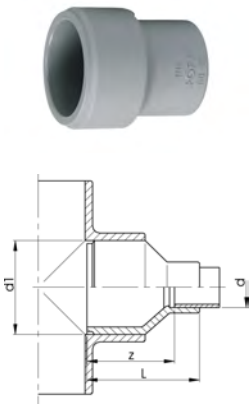
d	Code	SP	Weight (kg)	d (mm)	l (mm)	l1 (mm)	l2 (mm)
40	**761 068 066**	5	0.098	51	88	44	26
50	**761 068 067**	5	0.169	64	102	51	32
63	**761 068 068**	2	0.321	81	124	62	41

Socket





d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
16	**761 066 660**	10	0.009	22	33	3
20	**761 066 661**	10	0.014	26	33	3
25	**761 066 662**	10	0.020	32	39	3
32	**761 066 663**	10	0.033	40	43	3
40	**761 066 664**	10	0.048	51	48	4
50	**761 066 665**	10	0.069	64	54	4
63	**761 066 666**	2	0.120	81	60	4
75	**761 066 667**	2	0.153	91	69	7
90	**761 066 668**	2	0.236	110	80	8
110	**761 066 669**	2	0.417	133	94	10



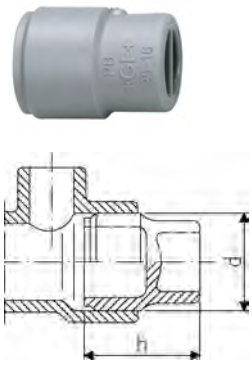
Reducing bush

d1 (mm)	d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
20	16	**761 066 670**	10	0.005	30	15
25	16	**761 066 671**	10	0.010	33	18
25	20	**761 066 672**	10	0.015	33	18
32	20	**761 066 674**	10	0.018	40	25
32	25	**761 066 675**	10	0.022	40	22
40	20	**761 066 677**	10	0.024	42	27
40	25	**761 066 678**	10	0.028	42	24
40	32	**761 066 679**	10	0.034	42	22
50	20	**761 066 681**	10	0.035	55	40
50	25	**761 066 682**	10	0.035	55	37
50	32	**761 066 683**	10	0.042	55	35
50	40	**761 066 684**	10	0.050	55	33
63	20	**761 066 686**	5	0.055	58	43
63	25	**761 066 687**	5	0.060	58	40
63	32	**761 066 688**	50	0.066	58	38
63	40	**761 066 689**	5	0.074	58	36
63	50	**761 066 690**	5	0.079	58	33
75	63	**761 066 742**	2	0.115	67	39
90	63	**761 066 746**	2	0.150	74	46
90	75	**761 066 745**	2	0.160	74	43
110	63	**761 066 747**	2	0.229	86	58
110	75	**761 066 749**	2	0.234	86	55
110	90	**761 066 748**	2	0.270	86	50



End cap

d (mm)	Code	SP	Weight (kg)	L (mm)
16	**761 066 650**	10	0.006	22
20	**761 066 651**	10	0.010	24
25	**761 066 652**	10	0.014	28
32	**761 066 653**	10	0.022	32
40	**761 066 654**	10	0.024	38
50	**761 066 655**	10	0.050	44
63	**761 066 656**	5	0.079	50

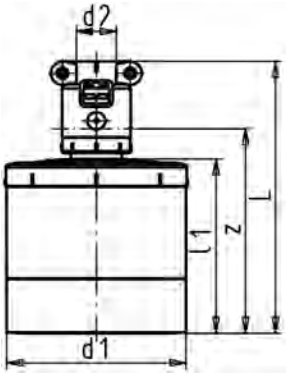


Plug

d (mm)	Code	SP	Weight (kg)	h (mm)
25	**761 066 938**	10	0.008	33

Special Reducers



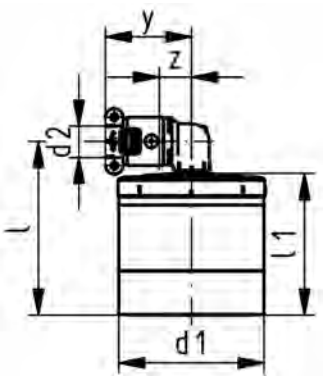


Special reducer with adaptor

* on request

	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)	l1 (mm)	z (mm)
*	75	16	**761 069 604**	1	0.212	134	88	97
*	75	20	**761 069 605**	1	0.216	134	88	95
*	75	25	**761 069 606**	1	0.221	137	88	95
*	75	32	**761 069 607**	1	0.237	139	88	97
*	75	40	**761 069 608**	1	0.254	145	88	98
*	75	50	**761 069 609**	1	0.270	148	88	99
*	90	16	**761 069 610**	1	0.254	133	87	96
*	90	20	**761 069 611**	1	0.265	133	87	94
*	90	25	**761 069 612**	1	0.267	136	87	94
*	90	32	**761 069 613**	1	0.277	138	87	96
*	90	40	**761 069 614**	1	0.297	144	87	97
*	90	50	**761 069 615**	1	0.322	147	87	98
*	110	16	**761 069 518**	1	0.405	140	94	103
*	110	20	**761 069 519**	1	0.405	140	94	101
*	110	25	**761 069 520**	1	0.414	143	94	101
*	110	32	**761 069 521**	1	0.433	145	94	103
*	110	40	**761 069 522**	1	0.461	151	94	104
*	110	50	**761 069 523**	1	0.469	154	94	105



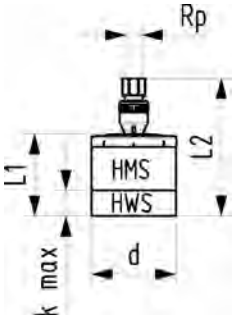


Special reducer with transition on elbow

* additional diameter on request

	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)	l1 (mm)	z (mm)	y (mm)
*	75	20	**761 069 619**	1	0.228	109	88	14	54
*	75	25	**761 069 524**	1	0.235	111	88	16	58
*	75	32	**761 069 525**	1	0.249	115	88	18	60
*	75	40	**761 069 526**	1	0.300	121	88	22	96
*	75	50	**761 069 527**	1	0.326	127	88	29	78
*	90	20	**761 069 620**	1	0.273	108	87	14	54
	90	25	**761 069 528**	1	0.283	110	87	16	58
*	90	32	**761 069 529**	1	0.300	114	87	18	60
*	90	40	**761 069 530**	1	0.350	120	87	22	69
*	90	50	**761 069 531**	1	0.415	126	87	29	78
*	110	20	**761 069 621**	1	0.423	115	94	14	54
*	110	25	**761 069 532**	1	0.435	117	94	16	58
*	110	32	**761 069 533**	1	0.453	121	94	18	60
*	110	40	**761 069 534**	1	0.500	127	94	22	69
*	110	50	**761 069 535**	1	0.565	183	94	29	78



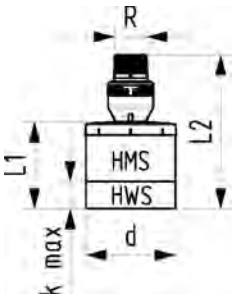


Special reducer - female thread

Special reducer transition to female thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

d (mm)	Rp (inch)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	k max. (mm)
75	½	**761 069 749**	1	0.291	88	148	26
75	¾	**761 069 750**	1	0.339	88	149	26
75	1	**761 069 751**	1	0.414	88	154	26
90	½	**761 069 752**	1	0.344	87	147	27
90	¾	**761 069 753**	1	0.392	87	148	27
90	1	**761 069 754**	1	0.467	87	153	27
110	½	**761 069 755**	1	0.486	94	154	28
110	¾	**761 069 756**	1	0.534	94	155	28
110	1	**761 069 757**	1	0.609	94	160	28



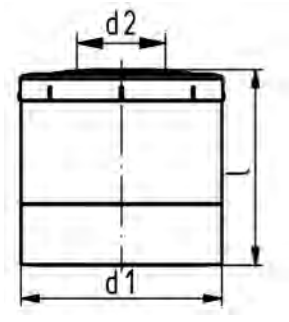


Special reducer - male thread

Special reducer transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

d (mm)	R (inch)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	k max. (mm)
75	½	**761 069 740**	1	0.285	88	147	26
75	¾	**761 069 741**	1	0.316	88	150	26
75	1	**761 069 742**	1	0.393	88	156	26
90	½	**761 069 743**	1	0.338	87	146	27
90	¾	**761 069 744**	1	0.369	87	149	27
90	1	**761 069 745**	1	0.446	87	155	27
110	½	**761 069 746**	1	0.480	94	153	28
110	¾	**761 069 747**	1	0.511	94	156	28
110	1	**761 069 748**	1	0.588	94	156	28



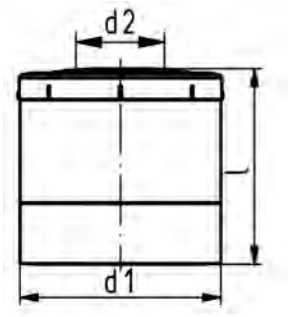


Special reducer

Not predrilled
Not suitable as end cap

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)
75	16 - 50	**761 069 454**	1	0.187	88
90	16 - 50	**761 069 455**	1	0.240	87
110	16 - 50	**761 069 456**	1	0.382	94





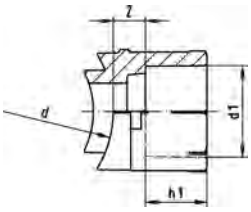
Special reducer - predrilled

Drilled hole d16 to d50
* on request

	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)
*	75	16	**761 069 500**	1	0.193	88
*	75	20	**761 069 501**	1	0.214	88
*	75	25	**761 069 502**	1	0.200	88
*	75	32	**761 069 503**	1	0.182	88
*	75	40	**761 069 504**	1	0.175	88
*	75	50	**761 069 505**	1	0.161	88
*	90	16	**761 069 506**	1	0.254	87
*	90	20	**761 069 507**	1	0.242	87
*	90	25	**761 069 508**	1	0.240	87
*	90	32	**761 069 509**	1	0.236	87
*	90	40	**761 069 510**	1	0.226	87
*	90	50	**761 069 511**	1	0.213	87
*	110	16	**761 069 512**	1	0.400	94
*	110	20	**761 069 513**	1	0.387	94
*	110	25	**761 069 514**	1	0.373	94
*	110	32	**761 069 515**	1	0.376	94
*	110	40	**761 069 516**	1	0.372	94
*	110	50	**761 069 517**	1	0.357	94

Weld-in Saddles

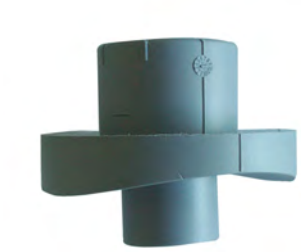


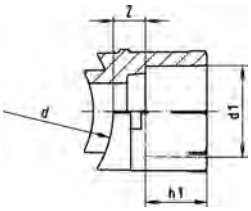


Weld-in saddle

* on request

	d - d1 (mm)	Code	SP	Weight (kg)	h1 (mm)	z (mm)
*	40 - 20	**761 068 000**	5	0.011	15	11
	50 - 20	**761 068 003**	5	0.011	15	11
	50 - 25	**761 068 004**	5	0.014	18	11
	50 - 32	**761 068 005**	5	0.019	20	11
	63 - 20	**761 068 006**	5	0.012	15	11
	63 - 25	**761 068 007**	5	0.016	18	11
	63 - 32	**761 068 008**	5	0.022	20	11
	75 - 20	**761 068 009**	5	0.014	15	12
	75 - 25	**761 068 010**	5	0.017	18	12
	75 - 32	**761 068 011**	5	0.022	20	12
	90 - 20	**761 068 012**	5	0.018	15	13
	90 - 25	**761 068 013**	5	0.021	18	13
	90 - 32	**761 068 014**	5	0.027	20	13
	110 - 20	**761 068 015**	5	0.019	15	14
	110 - 25	**761 068 016**	5	0.022	18	14
	110 - 32	**761 068 017**	5	0.020	20	14

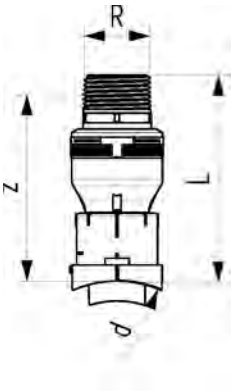




Weld-in saddle

d - d1 (mm)	Code	SP	Weight (kg)	h1 (mm)	z (mm)
125 - 32	**761 068 018**	5	0.035	20	16
125 - 40	**761 068 019**	5	0.056	22	16
125 - 50	**761 068 020**	5	0.072	25	16
160 - 32	**761 068 021**	5	0.045	20	16
160 - 40	**761 068 022**	5	0.061	22	16
160 - 50	**761 068 023**	5	0.077	25	16
225 - 32	**761 068 024**	5	0.076	20	16
225 - 40	**761 068 025**	5	0.076	22	16
225 - 50	**761 068 026**	5	0.092	25	16





Weld-in saddle - male thread

Weld-in saddle transition to male thread
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

d (mm)	R (inch)	Code	SP	Weight (kg)	L (mm)	z (mm)
50	¾	**761 069 758**	2	0.143	100	75
63	1	**761 069 759**	2	0.228	100	83
75	1	**761 069 760**	2	0.228	100	83
90	1	**761 069 761**	2	0.233	103	86
110	1	**761 069 762**	2	0.226	105	88
125	1	**761 069 763**	2	0.241	108	91
160	1	**761 069 764**	2	0.251	108	91
225	1	**761 069 765**	2	0.282	108	91

Flange Connections



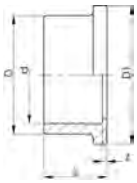


PB flange adaptor

Transition to ball valve 564

d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	z (mm)
20	**761 066 940**	2	0.005	27	33	20	3
25	**761 066 941**	2	0.012	33	44	22	3
32	**761 066 942**	2	0.016	41	53	24	3
40	**761 066 943**	2	0.026	51	65	26	3
50	**761 066 944**	2	0.041	62	77	29	3
63	**761 066 945**	2	0.075	77	99	34	3





Flange adaptor flat

Suitable for flange or union nut

d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	z (mm)
16	**761 066 630**	10	0.005				
20	**761 066 631**	10	0.007	27	34	20	5
25	**761 066 632**	10	0.010	33	41	23	5
32	**761 066 633**	10	0.017	41	50	25	5
40	**761 066 634**	10	0.026	50	61	27	5
50	**761 066 635**	10	0.039	61	73	30	5
63	**761 066 636**	2	0.063	76	90	33	5
75	**761 066 637**	2	0.093	90	106	35	4
90	**761 066 638**	2	0.140	109	125	42	6
110	**761 066 639**	2	0.230	131	150	49	7





Flange adaptor with groove

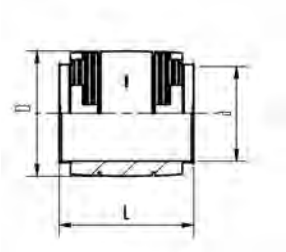
Suitable for flange or union nut
Including EPDM O-Ring, quality suitable for potable water

d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	z (mm)
16	**761 066 640**	10	0.006	22	29	23	8
20	**761 066 641**	10	0.008	27	34	23	8
25	**761 066 642**	10	0.012	33	41	26	8
32	**761 066 643**	10	0.021	41	50	28	8
40	**761 066 644**	10	0.034	50	61	32	10
50	**761 066 645**	10	0.049	61	73	35	10
63	**761 066 646**	2	0.077	76	90	38	10
75	**761 066 647**	2	0.111	90	106	40	9
90	**761 066 648**	2	0.179	109	125	47	11
110	**761 066 649**	2	0.292	131	150	55	13

Butt fusion

Fittings

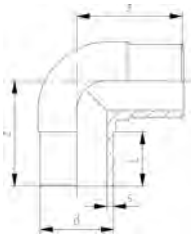




Electro fusion coupler - PN16

d (mm)	Code	SP	Weight (kg)	L (mm)
125	**761 069 555**	1	1.500	186
160	**761 069 556**	1	1.397	190
225	**761 069 557**	1	4.472	220



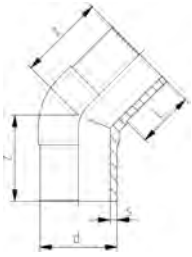


Elbow 90°

- Material: PB

d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
125	**761 065 258**	1	1.615	93	182
160	**761 065 259**	1	3.077	104	213
225	**761 065 260**	1	7.795	122	270
315	**761 065 321**	1	20.990	152	522





Elbow 45°

- Material: PB

d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
125	**761 065 261**	1	1.246	92	140
160	**761 065 262**	1	2.379	102	162
225	**761 065 263**	1	6.065	122	200
315	**761 065 325**	1	14.000	420	245



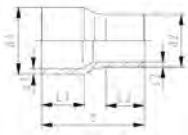


Tee 90° - equal

- Material: PB

d (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
125	**761 065 255**	1	2.397	93	183
160	**761 065 256**	1	4.312	102	210
225	**761 065 257**	1	11.984	122	270
315	**761 065 320**	1	20.105	569	280





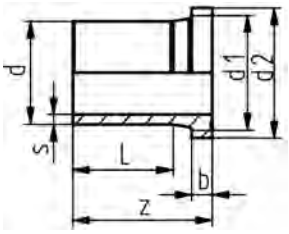
Reducer

- Material: PB

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	z (mm)
125	110	**761 065 267**	1	0.729	92	85	215
160	125	**761 065 268**	1	1.263	102	92	245
225	160	**761 065 269**	1	2.800	122	102	280
315	225	**761 065 322**	1	7.933	502	155	158

Flange connections





Flange adaptor - flat

- Material: PB

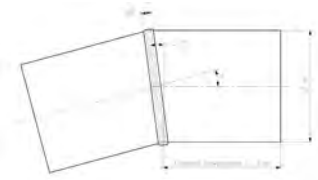
d (mm)	Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	L (mm)	b (mm)	z (mm)
125	**761 065 264**	1	0.864	132	162	123	25	170
160	**761 065 265**	1	1.667	176	218	147	25	200
225	**761 065 266**	1	3.003	236	274	122	32	200
315	**761 065 323**	1	5.227	336	371	170	36	291



Pipe Brackets ROM

d (mm)	Code	SP	Weight (kg)
125	**761 070 337**	5	0.228
160	**761 070 338**	5	0.228
225	**761 070 343**	5	1.160

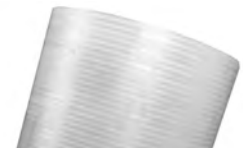


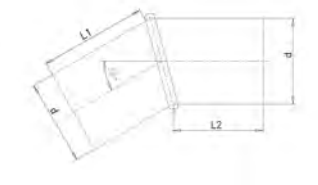


Elbow 15°

Prefabricated elbow with two short ends for electro fusion fittings
GF customized quality, pre-peeled, swiss made
Single packed in plastic bags
* on request

	d (mm)	Code	SP	Weight (kg)	L1 (mm)
*	90	**761 069 662**	1	0.405	95
*	110	**761 065 311**	1	0.647	100
*	125	**761 065 304**	1	0.905	110
*	160	**761 065 305**	1	1.590	115
*	225	**761 065 307**	1	6.348	130





Elbow 30°

Prefabricated elbow with two short ends for electro fusion fittings
GF customized quality, pre-peeled, swiss made
Single packed in plastic bags
* on request

	d (mm)	Code	SP	Weight (kg)	L1 (mm)
*	90	**760 069 663**	1		95
*	110	**761 065 312**	0	0.641	100
*	125	**761 065 308**	1	0.971	110
*	160	**761 065 309**	1	1.723	115
*	225	**761 065 310**	1	3.988	130

Compression Jointing

Compression joint fittings



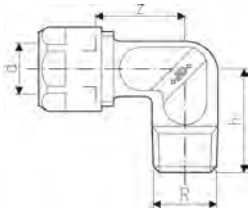


Elbow 90°

Brass: UBA conform

d (mm)	Code	SP	Weight (kg)	z (mm)	z1 (mm)
16	**760 857 047**	5	0.206	22	22
20	**760 857 048**	5	0.280	24	24



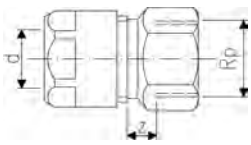


Transition elbow 90° - male thread

Brass: UBA conform

d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)	z (mm)
16	½	**760 857 049**	5	0.171	35	27
20	¾	**760 857 052**	5	0.208	35	29
25	¾	**760 857 053**	2	0.236	44	34
20	½	**760 857 051**	5	0.207	35	29
16	¾	**760 857 050**	2	0.188	35	27



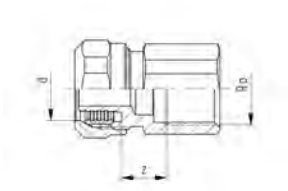


Transition - female thread

Brass: UBA conform

d (mm)	Rp (inch)	Code	SP	Weight (kg)	z (mm)
16	½	**760 857 019**	5	0.078	12
16	¾	**760 857 020**	5	0.144	15
20	½	**760 857 021**	5	0.204	14
20	¾	**760 857 022**	5	0.174	15



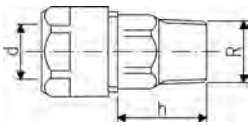


Transition - female thread

Brass: UBA conform
* on request

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	z (mm)	Remarks
	25	¾	**760 857 023**	1	0.124	7	
	25	1	**760 857 024**	10	0.202	13	
	32	1	**760 857 025**	10	0.261	7	
	40	1 ¼	**760 857 026**	1	0.364	7	
	50	1 ½	**760 857 027**	1	0.506	7	
	63	2	**760 857 028**	1	1.896	9	
	75	2 ½	**760 857 029**	1	1.907	10	without approval
*	90	3	**760 857 030**	1	0.800	9	without approval
*	110	4	**760 857 031**	1	5.800	38	without approval





Transition - male thread

Brass: UBA conform

d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)
16	½	**760 857 032**	5	0.111	30
16	¾	**760 857 033**	5	0.156	34
20	½	**760 857 034**	5	0.148	38
20	¾	**760 857 035**	5	0.230	36



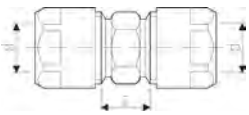


Transition - male thread

Brass: UBA conform
* on request

	d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)	Remarks
	25	¾	**760 857 036**	1	0.144	35	
	25	1	**760 857 037**	10	0.177	41	
	32	1	**760 857 038**	1	0.293	42	
	40	1 ¼	**760 857 039**	1	0.409	44	
	50	1 ½	**760 857 040**	1	0.576	47	
	63	2	**760 857 041**	1	1.736	32	
	75	2 ½	**760 857 042**	1	2.093	37	without approval
*	90	3	**760 857 043**	1	2.806	32	without approval
*	110	4	**760 857 044**	1	3.429	38	without approval



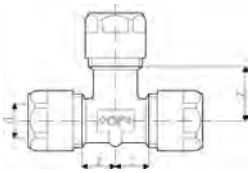


Socket

Brass: UBA conform

d (mm)	Code	SP	Weight (kg)	z (mm)
16	**760 857 045**	2	0.156	26
20	**760 857 046**	2	0.300	28



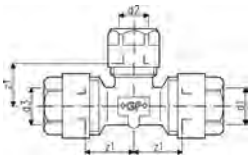


T-piece 90° - equal

Brass: UBA conform

d (mm)	Code	SP	Weight (kg)	z (mm)
16	**760 857 054**	2	0.275	22
20	**760 857 055**	2	0.416	24



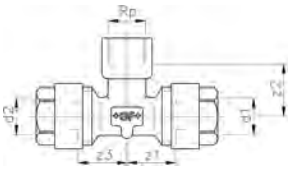


T-piece 90° - reduced

Brass: UBA conform

d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	z3 (mm)
20	16	20	**760 857 056**	2	0.380	24	23	23
20	16	16	**760 857 057**	2	0.342	24	23	23
20	20	16	**760 857 058**	2	0.375	24	24	23



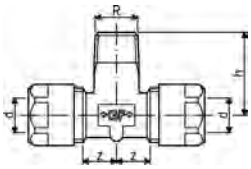


Transition T-piece - female thread

Brass: UBA conform

d (mm)	Rp (inch)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	z3 (mm)
20	½	**760 857 059**	5	0.340	24	22	24



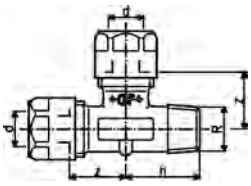


Transition T-piece - male thread

Not UBA conform
* as long as stock last

	d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)	z (mm)
*	16	½	**760 854 711**	2	0.225	38	19



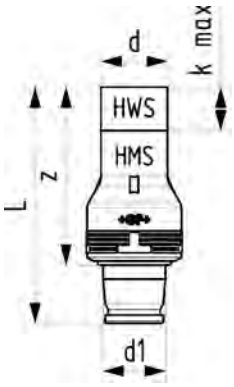


Transition T-piece - male thread

* as long as stock last

	d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)	z (mm)
*	16	½	**760 869 987**	2	0.209	30	22





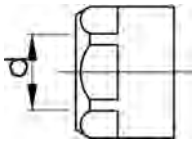
Transition module iFIT-INSTAFLEX

Socket fusion transition to iFIT
Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
EPDM sealing hot and cold water approved

d (mm)	d1 (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)	k max. (mm)
16	16 - 20	**762 101 253**	1	0.075	93	73	22
20	16 - 20	**762 101 254**	1	0.088	96	76	23
25	16 - 20	**762 101 255**	1	0.110	103	83	23
25	25 - 32	**762 101 256**	1	0.164	108	83	23
32	25 - 32	**762 101 257**	1	0.213	144	86	21

Accessories for compression joint fittings

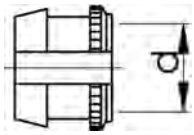




Union nut

d (mm)	Code	SP	Weight (kg)
16	**760 853 018**	5	0.034
20	**760 853 071**	2	0.047



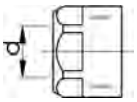


Clamping ring

d (mm)	Code	SP	Weight (kg)
16	**760 853 019**	5	0.011
20	**760 853 072**	2	0.016

Cap



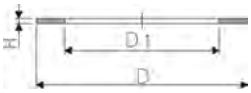


Including seal

d (mm)	Code	SP	Weight (kg)
16	**760 857 072**	5	0.051
20	**760 857 073**	5	0.094

Seal for cap



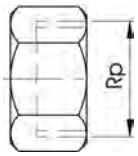


Material: Tesnit UNI blue, free of asbestos according to DIN 3754

d-d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	H (mm)
16 - 20	**760 853 021**	5	0.002	15	6	3

End cap

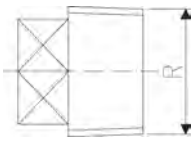




Rp (inch)	Code	SP	Weight (kg)
¾	**760 857 074**	5	0.089
1	**760 857 075**	5	0.135

Plug





R (inch)	Code	SP	Weight (kg)
¾	**760 857 076**	5	0.058
1	**768 291 006**	10	0.115

Machines and Tools

Electro Fusion



Electro fusion control unit-Type HWSG-3

Technical data: Voltage 230V, Power max 1400W, Frequency 50/60Hz, Protection class IP 54, Main connection (3m) with EU-Standard plug
* only for CH / swiss plug

	d-d (mm)	Code	SP	Weight (kg)	Dimensions (mm)	Size (inch)
	16 - 110	**761 069 021**	1	4.142	294	324
*	16 - 110	**761 069 020**	1	4.047	294	324



Primary cable 230V

* on request

	Code	SP	Weight (kg)	Length (m)
*	**761 069 013**	1	0.380	3



Welding cable angle - HWSG-3 - 230V

Matches to HWSG-3 - 230V

d (mm)	Code	SP	Weight (kg)	Length (m)
16 - 110	**761 069 006**	1	0.246	3



Welding cable straight - HWSG-3 - 230V

Matches to HWSG-3 - 230V

d (mm)	Code	SP	Weight (kg)	Length (m)
16 - 110	**761 069 001**	1	0.255	3



Welding cable triple 8 m - HWSG-3 - 230V

Matches to HWSG-3 - 230V
2 pcs. with cable straight
1 pc. with cable angle
* on request

	Code	SP	Weight (kg)	Length (m)
*	**761 069 008**	1	1.753	8



MSA 2 MULTI Automatic Electrofusion Unit for PE/PP/PVDF/PB

The MSA 2 MULTI automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology. The unit is suitable for welding PE, PP, INSTAFLEX PB d125-225, Fuseal d1 1/2"-12" and PPro-Seal 1/2"-3".
It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The unit has 500 protocols permanently stored in the internal memory. The user can copy the fusion reports in an USB stick to print them out in PDF format.
Scope of delivery includes: 1 pair of angle adapter clips 4.0 mm, operating instructions, START/STOP badge, USB memory stick and robust transport case

Technical Data:

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion data input mode: bar code, manual
- Fittings range: d16-630 mm , 1/2"-12"
- Fusion voltage: 3.6-40 V
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 3 m
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast

Type	Code	Weight (kg)
Full package plus mini Welding Book	**790 156 021**	20.000
Full package plus mini Welding Book, SeaDrain adapters and barcodes	**790 156 022**	20.000

Socket Fusion





Socket fusion machine BTM 110

Packed in a wooden case, usable as working table, prism clamp device for pipes, round clamping units for fittings d16-d110, pipe support adjustable. Without heating element. Requires heating element catalogue number 761 066 895

l (mm)	h (mm)	Code	SP	Weight (kg)	h1 (mm)	h2 (mm)	h3 (mm)
867	1191	**761 066 894**	0	95.000	787	404	728



Accessories for socket fusion machine BTM 110

Toolbox (included in delivery code 761 066 895) heating element with electronic temperature regulation, voltage 230V, power 800W, heating bushes d16-d110, tempil sticks 253°C and 274°C, timer, gtemplate, gloves, support, grip, pipe shears, pipe cutter d32-d110, chamfering tool

Code	Weight (kg)
761 066 895	10.000



Heating element 230V

Scope of delivery: elctronic temperature regulation, Voltage 230V, Power 800W, Instruction for the socket fusion jointing
* only for CH / swiss plug

	d-d (mm)	Code	SP	Weight (kg)
	16 - 63	**761 066 804**	1	1.639
*	16 - 63	**761 066 751**	1	1.646



Heating element 30° - 230V

Special for weld-in-saddle
With Schuko-Plug CEE
* on request

	D (mm)	Code	SP	Weight (kg)
*	16 - 50	**761 066 877**	1	1.550



Support

As a storage possibility for Handheld heating element

Code	SP	Weight (kg)
761 066 801	1	0.986

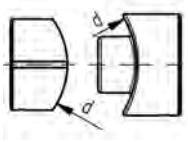


Heating bushes

Heating bushes for the entire INSTAFLEX socket fusion range (in conjunction with the BTM 110 fusion machine)

d (mm)	Code	SP	Weight (kg)
16	**761 066 756**	1	0.189
20	**761 066 757**	1	0.284
25	**761 066 758**	1	0.366
32	**761 066 759**	1	0.369
40	**761 066 760**	1	0.321
50	**761 066 761**	1	0.460
63	**761 066 762**	1	0.609
75	**761 066 881**	1	1.108
90	**761 066 882**	1	1.740
110	**761 066 883**	1	2.450



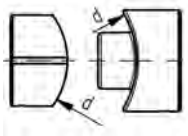


Heating bushes for weld-in saddle PB

d = Pipe dim.

d (mm)	Code	SP	Weight (kg)	Remarks
40	**761 068 027**	1	0.129	Drill bitt d20-d32
50	**761 068 028**	1	0.156	Drill bitt d20-d32
63	**761 068 029**	1	0.199	Drill bitt d20-d32
75	**761 068 030**	1	0.216	Drill bitt d20-d32
90	**761 068 031**	1	0.272	Drill bitt d20-d32
110	**761 068 032**	1	0.298	Drill bitt d20-d32





Heating bushes for weld-in saddle PB

For heating element straight
d = Pipe dim.

d (mm)	Code	SP	Weight (kg)	Remarks
125	**761 068 033**	1	0.376	Drill bitt d20-d32
125	**761 068 034**	1	0.510	Drill bitt d40-d50
160	**761 068 035**	1	0.568	Drill bitt d20-d32
160	**761 068 036**	1	0.658	Drill bitt d40-d50
225	**761 068 037**	1	1.013	Drill bitt d20-d32
225	**761 068 038**	1	1.019	Drill bitt d40-d50



Drill bit for weld-in saddle

d (mm)	Code	SP	Weight (kg)
20 - 32	**761 068 039**	1	0.132
40 - 50	**761 068 040**	1	0.232



Fuseal-Template - electro fusion jointing

Dimension (mm)	Code	SP	Weight (kg)
1 1/2"- 6"	**761 069 622**	1	0.010



Heating element - complete 230V

Scope of delivery: Metal case, Heating element with electronic temperature regulation Voltage 230V, Power 800W, Heating bushes d16-d63, Tempil sticks 253°C and 274°C, Timer, Template, Gloves, Support, Grip, Pipe shears, Pipe cutter d32-d63, Chamfering tool
* only for CH / swiss plug

	d-d (mm)	Code	SP	Weight (kg)
	16 - 63	**761 066 802**	1	11.679
*	16 - 63	**761 066 750**	1	11.735

General Tools





Pipe cutting machine CMB 225

State-of-the art cutting machine for polyolefin pipes in diameter d110-d230.
Scope of delivery: Cutting machine CMB 225 (1 pcs.), Machines cutter CW 225 (3 pcs.), Pipe brackets PS 225 (4 pcs.), Wrench for cutter-change (1 pcs.)

Voltage	Code	SP	Weight (kg)
110V	**761 070 322**	0	38.000
220V	**761 070 319**	0	38.000





Cutting insert for CMB 225

d (mm)	Code	SP	Weight (kg)
50 - 110	**761 070 323**	0	2.000



Replacement cutting wheels

For plastic pipe cutter

d-d (mm)	Article	Code	SP	Weight (kg)
10 - 63	SR 63 max. s=7,2 mm	**790 109 011**	1	0.004
50 - 110	SR 110/160 max. s=12,7 mm	**790 109 012**	1	0.015
110 - 160	SR 160 max. s=19,0 mm	**790 109 013**	1	0.023



Machines cutter CW 225

Replacement cutting wheel for cutting machine CMB 225

Cutting depth (mm)	Code	SP	Weight (kg)
26	**761 070 320**	1	0.240



Pipe shears

d-d (mm)	Code	SP	Weight (kg)
16 - 25	**760 853 279**	1	0.295



Multi-purpose cutter

- Material: steel, plastic

d-d-d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	l (mm)
12 - 16 - 20	**5790.004**	**355 632 424**	1	0.150	45	200



PPC Plastic pipe cutter

For cutting plastic pipes d10 - d160

d-d (mm)	Article	Code	SP	Weight (kg)	Closest inch (inch)
10 - 63	PPC 63, s max. = 7.2mm	**790 109 001**	1	0.865	⅛ - 2
50 - 110	PPC 110, s max. = 12.7mm	**790 109 002**	1	1.624	1 ½ - 4
110 - 160	PPC 160, s max. = 19.0mm	**790 109 003**	1	2.212	4 - 6



Pipe support

Pipe support for cutting machine CMB 225

d (mm)	Code	SP	Weight (kg)	GP	Type
110 - 225	**761 070 321**	1	1.500	0	PS 225
50 - 110	**761 070 324**	0	1.400	0	PS 110



Chamfering tool

d-d (mm)	Code	SP	Weight (kg)
25 - 110	**761 066 836**	1	0.830



Spare blades for Chamfering tool

d-d (mm)	Code	SP	Weight (kg)
25 - 110	**761 066 795**	1	0.016



Rotary Peeler RS

Note:
This innovative Rotary Peeler RS is designed to use for universal peeling at the pipe end, for electrofusion couplings, tees and elbows and as well as for electrofusion saddles.Suitable for peeling of pipes made out of PE 80, PE 100, PEX, PP.

d (mm)	Article	Code	SP	Weight (kg)
40	RS 40	**790 136 001**	1	1.310
50	RS 50	**790 136 002**	1	1.310
63	RS 63	**790 136 003**	1	1.310
75	RS 75	**790 136 004**	1	1.540
90	RS 90	**790 136 005**	1	1.540
110	RS 110	**790 136 006**	1	1.540
125	RS 125	**790 136 007**	1	1.730
140	RS 140	**790 136 008**	1	1.730
160	RS 160	**790 136 009**	1	1.730
180	RS 180	**790 136 010**	1	2.030
200	RS 200	**790 136 011**	1	2.030
225	RS 225	**790 136 012**	1	2.030
250	RS 250	**790 136 013**	1	2.440
280	RS 280	**790 136 014**	1	2.440
315	RS 315	**790 136 015**	1	2.440



Template for fusion joints

To mark the coupler

d-d (mm)	Code	SP	Weight (kg)
16 - 63	**761 066 800**	1	0.014



Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the materialof PP, PE, PVDF and PB
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

Size	Code	Weight (kg)
1 liter	**799 298 023**	0.872



Tangit KS-Cleaning Tissues

- Special cleaner for plastic fusion connections in the materialof PP, PE, PVDF and PB
- DVGW approved
- DW 5290 BR 0464

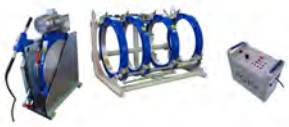
Contents	Code	SP	Weight (kg)
1 dispenser with 100 tissues	**799 298 024**	8	0.333



IM 315
Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range: d90-315 mm, from SDR 41 up to SDR 11 with PE,PP d315 mm
- 115 V on request!
- **BASE MACHINE**
- High precision, distortion-free and robust machine base
- Integrated swivel tables for angular jointing up to 30° (2x15°)
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Fusion pressure is maintained with a user friendly fast-locking handle
- Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
- Optional outer, horizontally removable clamping devices available
- Weight (including planer and heater): 169 kg
- **PLANER**
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- Integrated safety switch to prevent unintentional start-up
- Self-locking mechanism in working position
- **HEATER**
- High-performance and precision heater with electronic temperature control (2500W)
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Pull-off mechanism to automatically detach the heating plate from pipe ends
- Metal sheet cover to protect the heating plate in idle position
- Integrated thermometer for fast visual check of plate temperature
- **ADDITIONAL STANDARD EQUIPMENT**
- Reduction clamping inserts set d 90-315 mm
- Pipe supports for picking up reduction supporting inserts d 90-315 mm
- Reduction pipe supporting inserts set d 90-315 mm
- Timer to clock fusion times
- Machine specific tool set

d-d (mm)	Performance	Description	Code	Weight (kg)
90 - 315	230 V / 3500 W	Without transport crate	**790 143 005**	229.000
90 - 315	230 V / 3500 W	With standard transport crate	**790 143 001**	269.000
90 - 315	230 V / 3500 W	With special transport crate	**790 143 003**	366.000













TOP 2.0 400 - 500 - 630
Butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
TOP hydraulic unit with integrated control panel and power outlets.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 45° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Weight: Type 400 = 80 kg, Type 500 = 157 kg, Type 630 = 222 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Intuitive control panel provided with digital indication of hydraulic pressure, electronic heating element temperature controller, 2-channel welding timer
- Automatic pressure control during the cooling time
- Built-in data logger and realtime communication with mobile smartphones (at least iOS 11 or Android 7) during the welding process and fusion data download, working in combination with TOP WeldinAir mobile application
- Precise pressure setting and fine adjusting
- Push-button operation of machine carriage
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: Type 400 = 160 bar, Type 500 - 630 = 200 bar
- Weight: 34 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Ergonomic, weight-balanced handling
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: Type 400 = 47 kg, Type 500 = 58 kg, Type 630 = 102 kg
- For Type 500 a special version is available, with enhanced performance to work with PP pipes and fittings up to d 500 mm SDR 11
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: Type 400 = 16 kg, Type 500 = 26 kg, Type 630 = 51 kg
- Input power: Type 400 = 3.5 kW, Type 500= 4.0 kW, Type 630 = 8.0 kW
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 400 = 30 kg, Type 500 = 38 kg, Type 630 = 62 kg

Type	d-d (mm)	Performance	Code	Weight (kg)
TOP 2.0 400	125 - 400	400 V/5700 W	**790 153 011**	310.000
TOP 2.0 500	200 - 500	400 V/6300 W	**790 154 011**	448.000
TOP 2.0 630	315 - 630	400 V/11000 W	**790 155 011**	588.000



Type 400 Reduction clamping inserts

- d 125-355 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

In order to mount the inserts d 125/d 140/d 160/d 180/d 200/d 225/d 250/d 280, the reduction clamping insert d 315 mm, code 790 127 101, must also be used

d (mm)	narrow Code	Weight (kg)	wide Code	Weight (kg)
125	**790 112 100**	1.215	**790 112 090**	0.957
140	**790 112 101**	1.139	**790 112 091**	0.950
160	**790 112 102**	1.080	**790 112 092**	0.980
180	**790 112 103**	1.006	**790 112 093**	0.931
200	**790 112 104**	0.945	**790 112 094**	0.880
225	**790 112 105**	0.833	**790 112 095**	0.940
250	**790 112 106**	0.712	**790 112 096**	0.754
280	**790 112 107**	0.562	**790 112 097**	0.750
315	**790 127 111**	1.830	**790 127 101**	1.830
355	**790 127 112**	0.900	**790 127 102**	1.830



Set of replacement blades for planer

- Blade has 2 cutting edges (1 set = 2 blades)

d (mm)	Code	Weight (kg)
400	**790 112 110**	0.129
500	**790 340 045**	0.157
630	**790 117 041**	0.229

Tools for Compression Joints



Assembly tongs

d (mm)	Code	SP	Weight (kg)
16 - 20	**760 853 743**	1	0.503
25	**760 869 950**	1	0.418



Ratched spanner

For tightening and loosening of compression fittings d16 and d20

d (mm)	SW (mm)	Code	SP	Weight (kg)
16	24	**760 854 916**	1	0.280
20	27	**760 854 917**	1	0.321



Ball-head socket wrench - crossbar handle

d-d (mm)	Code	SP	Weight (kg)	SW (mm)
16 - 63	**761 066 843**	2	0.038	3
75 - 110	**761 066 844**	2	0.038	4



Spanner

Tool to change the heating bushes

SW (mm)	Code	SP	Weight (kg)
6	**760 854 906**	1	0.038



1/4" screwdriver bit - ball-head

d-d (mm)	Code	SP	Weight (kg)	SW (mm)
16 - 63	**761 066 845**	5	0.007	3
75 - 110	**761 066 846**	5	0.007	4



Template, Electrofusion - HWS

d-d (mm)	Code	SP	Weight (kg)
16 - 110	**761 069 602**	1	0.065



Tempil sticks

Temperature (°C)	Code	SP	Weight (kg)	Color
253	**761 066 796**	1	0.012	yellow
274	**761 066 797**	1	0.014	red



Marker

For plastic pipes and fittings

Type	Code	SP	Weight (kg)
Black	**761 070 325**	10	0.010



Gloves

Code	SP	Weight (kg)
761 066 799	1	0.115



Timer with 2 stop times

Code	SP	Weight (kg)
790 114 028	1	0.088

iFIT



Technical data

Materials
PB, PE-RT/AL/PE-RT, PPSU, DZR brass

Dimensions range
d16 mm – d32 mm

Jointing technology
Push fit

Operating pressure
Up to 10 bar

Operating temperature
0 °C to 70°C continuous operation, (short-term up to 95°C)

Your benefits

- **Low stock costs thanks to modular concept**
- **Fast, easy and safe push-fit technology**
- **No power supply required**
- **Low tool investments**
- **Detachable connection**
- **Type III Environmental Product Declaration (EPD)**

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Pipes



iFIT Multilayer pipe

- Description: in coils
- Material: Polyethylene PE-RT/Al/PE-RT (white)

d (mm)	s (mm)	Code	SP	Weight (kg)	L (m)
16	2.0	**762 101 000**	100	0.119	100
16	2.0	**762 101 014**	200	0.118	200
20	2.0	**762 101 001**	50	0.154	50
25	2.5	**762 101 130**	50	0.289	50
32	3.0	**762 101 131**	50	0.354	50



iFIT Multilayer pipe, protected

- Description: in coils
- Material: Polyethylene PE-RT/Al/PE-RT (white), PE protective conduit (black)

d (mm)	s (mm)	Code	SP	Weight (kg)	D (mm)	L (m)
16	2.0	**762 101 003**	75	0.194	25	75
16	2.0	**762 101 194**	75	0.194	25	75
20	2.0	**762 101 004**	50	0.246	30	50
20	2.0	**762 101 195**	50	0.246	30	50



iFIT Multilayer pipe

- Description: in bars
- Material: Polyethylene PE-RT/Al/PE-RT (white)

d (mm)	s (mm)	Code	SP	Weight (kg)	L (m)
16	2.0	**762 101 005**	45	0.118	5
20	2.0	**762 101 006**	45	0.154	5
25	2.5	**762 101 007**	50	0.284	5
32	3.0	**762 101 008**	20	0.354	5



iFIT Polybutene pipe, protected

- Description: in coils
- Material: Polybutene (grey), PE protection (black)

d (mm)	s (mm)	Code	SP	Weight (kg)	D (mm)	L (m)
16	2.0	**762 101 012**	60	0.164	25	60
20	2.0	**762 101 013**	60	0.207	30	60
25	2.5	**762 101 011**	30	0.286	34	30





iFIT Polybutene pipe

- Description: in coils
- Material: Polybutene (grey)

d (mm)	s (mm)	Code	SP	Weight (kg)	L (m)
16	2.0	**762 101 126**	60	0.088	60
16	2.0	**762 101 201**	420	0.088	420
20	2.0	**762 101 127**	60	0.115	60
25	2.5	**762 101 128**	30	0.178	30





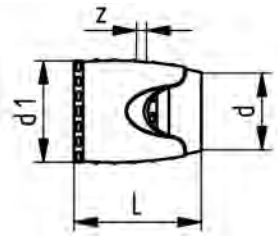
iFIT Polybutene pipe

- Description: in bars
- Material: Polybutene (grey)

s (mm)	d (mm)	Code	SP	Weight (kg)	L (m)
2	16	**762 101 160**	45	0.088	5
2	20	**762 101 161**	45	0.115	5
3	25	**762 101 162**	50	0.178	5
3	32	**762 101 163**	20	0.272	5

Adapters



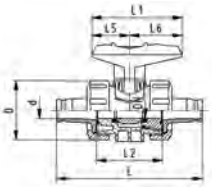


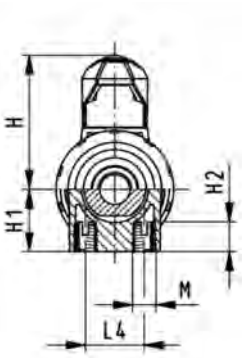
Adaptor

d (mm)	d1 (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
16	30	**762 101 030**	10	0.024	48	5
20	34	**762 101 031**	10	0.028	49	5
25	45	**762 101 034**	5	0.067	62	8
32	52	**762 101 035**	5	0.085	63	8

Valves







Ball valve type 547
With iFIT connection

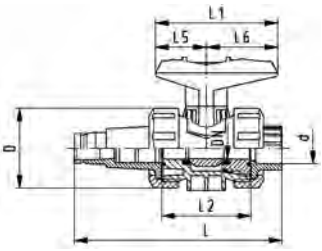
Model:

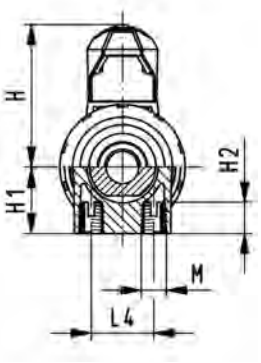
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Material: PP-H
- iFIT connection for d16/20

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)
16 - 20	15	10	**167 547 812**	0.152

d (mm)	DN (mm)	PN (bar)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)
16 - 20	15	10	50	57	27	12	126	77	56	25	32	45	6







PROGEF Standard
Shipbuilding ball valve type 547
With iFIT connection and fusion socket PB

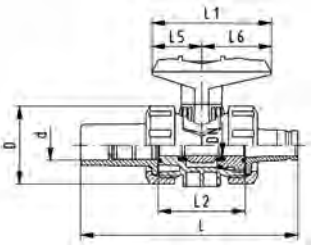
Model:

- Material: PP-H
- iFIT connection for d16/20
- iFIT connection with integrated check valve and filter
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	10	40	**167 547 041**	2	0.244
20	15	10	40	**167 547 042**	2	0.242

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)
16	50	57	27	12	130	77	56	25	32	45	6
20	50	57	27	12	131	77	56	25	32	45	6



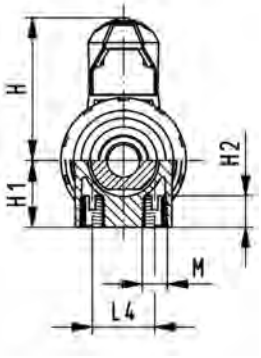


PROGEF Standard
Shipbuilding ball valve type 547
With fusion socket PB and iFIT connection

Model:

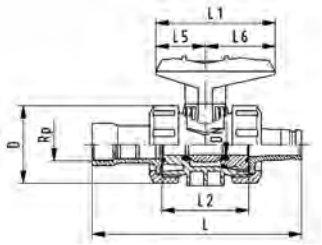
- Material: PP-H
- iFIT connection for d16/20
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Fusion socket PB with integrated check valve and filter

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	10	40	**167 547 311**	2	0.303
20	15	10	40	**167 547 312**	2	0.303



d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)
16	50	57	27	12	141	77	56	25	32	45	6
20	50	57	27	12	141	77	56	25	32	45	6



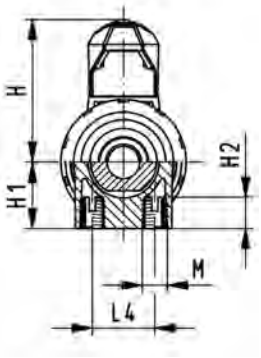


PROGEF Standard
Shipbuilding ball valve type 547
With threaded socket Rp brass and iFIT connection

Model:

- Material: PP-H
- iFIT connection for d16/20
- Threaded socket Rp brass with integrated check valve and filter
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts

Rp (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
½	15	10	40	**167 547 512**	2	0.327



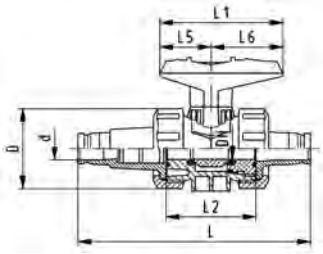
Rp (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)
½	50	57	27	12	136	77	56	25	32	45	6



Service housing end connector kit with iFIT connector

d (mm)	Size (inch)	DN (mm)	Code
20	½	15	**167 547 902**



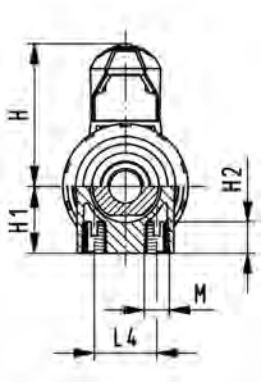


PROGEF Standard
Shipbuilding ball valve type 547
With iFIT connection

Model:

- Material: PP-H
- iFIT connection for d16/20
- iFIT connector with integrated check valve and filter
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
20	15	10	40	**167 547 012**	2	0.245



d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)
20	50	57	27	12	146	77	56	25	32	45	6

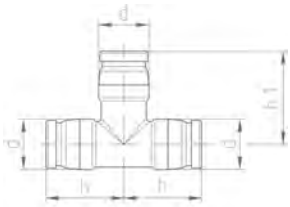
Modules



Cap for adaptor

d (mm)	s (mm)	Code	SP	Weight (kg)
16	2.0	**762 101 017**	5	0.004
25	2.5	**762 101 027**	5	0.009

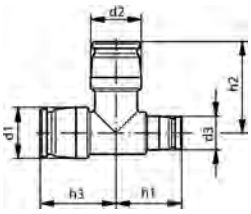




T-piece module

d (mm)	Code	SP	Weight (kg)	h (mm)	h1 (mm)
16 - 20	**762 101 042**	10	0.017	31	37
25 - 32	**762 101 181**	5	0.053	45	54

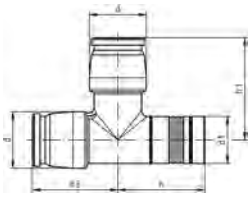




T- piece module - reduced

d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	H1 (mm)	H2 (mm)	H3 (mm)
25 - 32	25 - 32	16 - 20	**762 101 183**	2	0.045	45	54	39
25 - 32	16 - 20	25 - 32	**762 101 185**	2	0.044	45	48	45
25 - 32	16 - 20	16 - 20	**762 101 187**	2	0.036	45	48	39

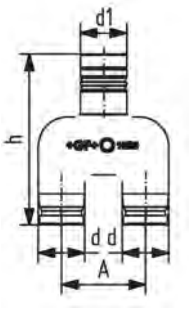




T-piece module - pipe outline

d (mm)	Code	SP	Weight (kg)	d1 (mm)	h (mm)	h1 (mm)	h2 (mm)
16 - 20	**762 101 204**	5	0.017	20	41	37	32
25 - 32	**762 101 205**	2	0.044	25	46	54	45

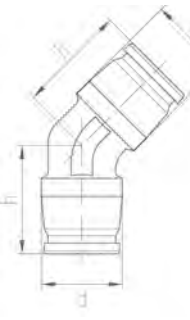




Y-Module

d (mm)	Code	SP	Weight (kg)	d1 (mm)	h (mm)	A (mm)
16 - 20	**762 101 233**	5	0.032	20	74	36

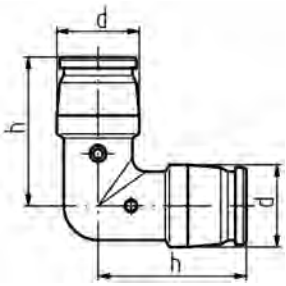




Elbow module 45°

d (mm)	Code	SP	Weight (kg)	h (mm)
25 - 32	**762 101 180**	5	0.033	40

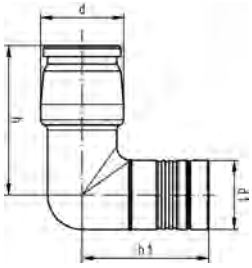




Elbow module 90°

d (mm)	Code	SP	Weight (kg)	h (mm)
16 - 20	**762 101 046**	10	0.013	36
25 - 32	**762 101 179**	5	0.042	54

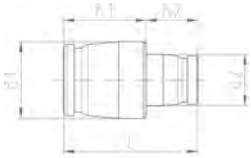




Elbow module 90° - pipe outline

d (mm)	Code	SP	Weight (kg)	d1 (mm)	h1 (mm)	h (mm)
16 - 20	**762 101 202**	5	0.013	20	40	36
25 - 32	**762 101 203**	2	0.030	25	46	54

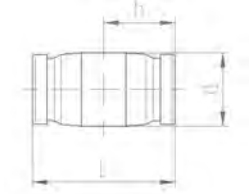




Reducing module

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	L (mm)	h1 (mm)	h2 (mm)
25 - 32	16 - 20	**762 101 177**	2	0.018	52	32	20





Coupler/reducing module

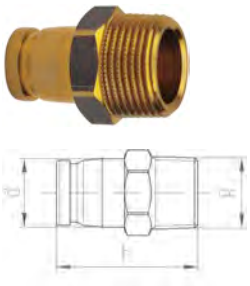
d (mm)	Code	SP	Weight (kg)	L (mm)	h (mm)
16 - 20	**762 101 044**	10	0.008	43	22
25 - 32	**762 101 175**	5	0.023	56	28

Transition Modules



Male thread adaptor 1/2" - pipe outline

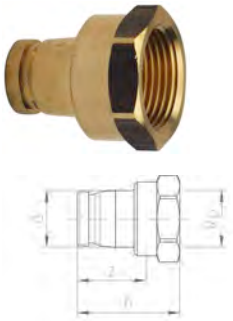
d (mm)	Code	SP	Weight (kg)	L (mm)	R (inch)
20	**762 101 238**	2	0.064	49	½



Transition module - male thread

* low lead

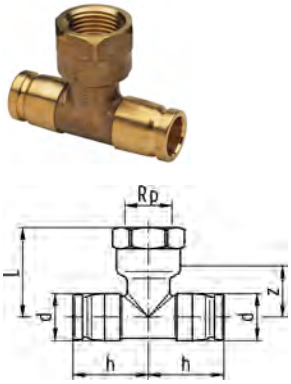
	d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)
*	16 - 20	½	**762 101 265**	10	0.060	42
*	16 - 20	¾	**762 101 266**	10	0.071	43
*	25 - 32	¾	**762 101 277**	2	0.135	51
*	25 - 32	1	**762 101 278**	2	0.175	55



Transition module - female thread

* low lead

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	h (mm)	z (mm)
*	16 - 20	½	**762 101 267**	10	0.065	36	23
*	16 - 20	¾	**762 101 268**	10	0.085	39	24
*	25 - 32	¾	**762 101 279**	2	0.127	45	31
*	25 - 32	1	**762 101 280**	2	0.175	49	32



Transition Tee module - female thread

d (mm)	Rp (inch)	Code	SP	Weight (kg)	L (mm)	h (mm)	z (mm)
16 - 20	½	**762 101 272**	5	0.129	38	32	25
25 - 32	¾	**762 101 289**	2	0.291	50	43	35

T-piece module

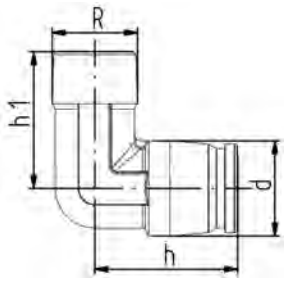




d (mm)	GF Code	SP	Weight (kg)	h (mm)	h1 (mm)
16/20 - 20	**762 101 349**	5	0.016	33	41

Transition elbow module - male thread



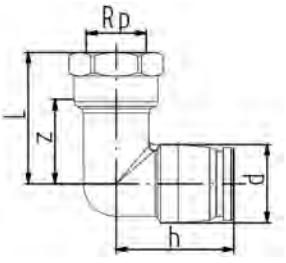


* low lead

	d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)	h1 (mm)
*	16 - 20	½	**762 101 270**	10	0.071	30	34
*	16 - 20	¾	**762 101 271**	10	0.076	30	35
*	25 - 32	¾	**762 101 285**	2	0.189	45	43
*	25 - 32	1	**762 101 286**	2	0.214	45	45

Transition elbow module - female thread

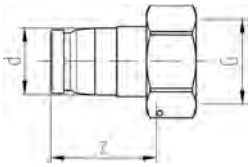




* low lead

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	L (mm)	h (mm)	z (mm)
*	16 - 20	½	**762 101 287**	10	0.102	38	32	25
*	16 - 20	¾	**762 101 290**	10	0.120	40	36	22
*	25 - 32	¾	**762 101 288**	5	0.211	50	45	33



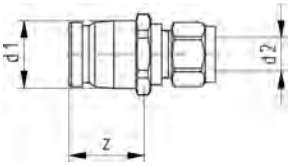


Transition union module - flat sealed

Supplied with sealing
** on request
* low lead

	d (mm)	G (inch)	Code	SP	Weight (kg)	z (mm)
**	16 - 20	½	**762 101 088**	2	0.080	41
*,**	16 - 20	½	**762 101 276**	2	0.695	41
*	16 - 20	¾	**762 101 273**	5	0.753	35
*	25 - 32	¾	**762 101 281**	2	0.155	48
*	25 - 32	1	**762 101 282**	2	0.180	55
*	25 - 32	1 ¼	**762 101 283**	2	0.252	48
*	25 - 32	1 ½	**762 101 284**	2	0.357	50



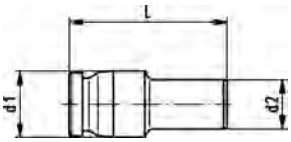


Transition module iFIT - Copper

** on request
* low lead

	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	z (mm)
* , **	16 - 20	12	**762 101 292**	10	0.050	19
* , **	16 - 20	15	**762 101 293**	10	0.060	22





Transition module iFIT - Press

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	L (mm)
16 - 20	15	**762 101 190**	2	0.036	54
16 - 20	18	**762 101 191**	2	0.037	56
25 - 32	22	**762 101 192**	2	0.105	70
25 - 32	28	**762 101 193**	2	0.103	70



Transition module iFIT - JRG Sanipex MT

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	l (mm)
16 / 20	26	**762 101 323**	2	0.091	49
16 / 20	32	**762 101 324**	2	0.145	57
25 / 32	32	**762 101 325**	2	0.185	64



Transition module iFIT - JRG Sanipex

- Material: brass

D (mm)	GF Code	SP	Weight (kg)	d (mm)	d1 (mm)	l (mm)
16 - 12	**762 101 347**	5	0.061	12	16	58



Transition module iFIT - sudoFIT

- Material: brass

d (mm)	GF Code	SP	Weight (kg)	d1 (mm)	l (mm)	l1 (mm)
16 - 20	**762 101 243**	10	0.054	12	42	20
16 - 20	**762 101 244**	10	0.060	14	42	20
16 - 20	**762 101 245**	10	0.060	15	42	20
16 - 20	**762 101 246**	10	0.120	18	53	20
16 - 20	**762 101 247**	5	0.140	22	54	20
25 - 32	**762 101 248**	2	0.190	22	62	28





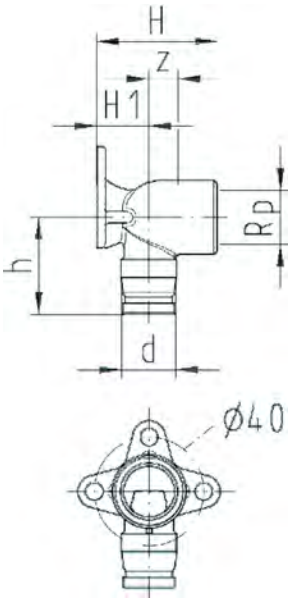
Transition module iFIT - ELGEF

- Description: for cold water
- Material: brass, PE

d (mm)	GF Code	SP	Weight (kg)	d1 (mm)	l (mm)
16/20 - 20	**762 101 350**	1	0.087	20	98

Outlet Joints





Single pipe outlet module

Applicable for light and wood construction
* low lead

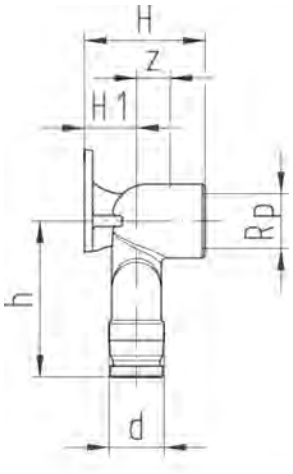
	d (mm)	Rp (inch)	Code	SP	Weight (kg)	H (mm)	H1 (mm)	h (mm)	z (mm)
*	16 - 20	½	**762 101 259**	10	0.130	44	19	36	12
*	16 - 20	½	**762 101 274**	5	0.188	64	19	36	32
*	16 - 20	¾	**762 101 260**	2	0.173	44	19	39	11

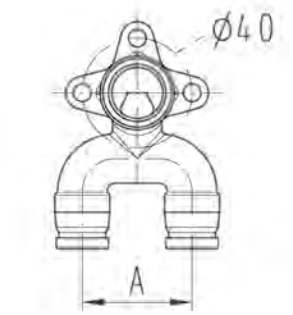


Dual pipe outlet module

Applicable for light and wood construction
* low lead

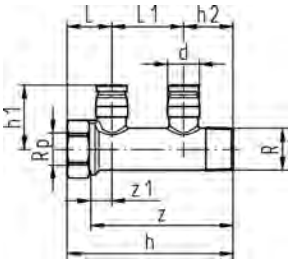
	d (mm)	Rp (inch)	Code	SP	Weight (kg)	A (mm)	H (mm)	H1 (mm)	h (mm)	z (mm)
*	16 - 20	½	**762 101 261**	2	0.240	40	44	19	57	12
*	16 - 20	½	**762 101 275**	2	0.282	40	64	19	57	32





Manifolds





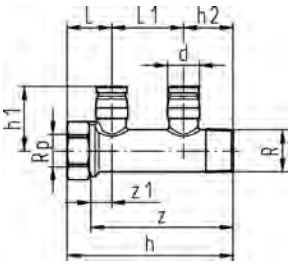
Manifold module

* low lead

	d (mm)	Rp (inch)	R (inch)	outlet	Code	SP	Weight (kg)
*	16 - 20	¾	¾	2-fold	**762 101 294**	2	0.315
*	16 - 20	¾	¾	3-fold	**762 101 295**	2	0.444
*	16 - 20	¾	¾	4-fold	**762 101 296**	2	0.573

	d (mm)	Rp (inch)	R (inch)	outlet	h (mm)	h1 (mm)	h2 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)
*	16 - 20	¾	¾	2-fold	123	40	35	33	55	109	19
*	16 - 20	¾	¾	3-fold	178	40	35	33	55	164	19
*	16 - 20	¾	¾	4-fold	233	40	35	33	55	219	19





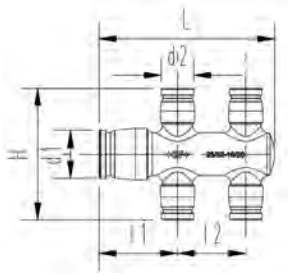
Manifold module with center-to-center distance of 45 mm

* low lead
** on request

	outlet	d (mm)	Rp (inch)	R (inch)	Code	SP	Weight (kg)
**	2-fold	16 - 20	¾	¾	**762 101 048**	2	0.267
*,**	2-fold	16 - 20	1	1	**762 101 209**	50	0.436

	L (mm)	L1 (mm)	h (mm)	h1 (mm)	h2 (mm)	z (mm)	z1 (mm)
**	28	45	104	40	31	90	14
*,**	37	60	131	45	34	120	26



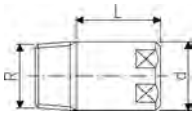


Manifold module PPSU

d1 (mm)	d2 (mm)	outlet	Code	SP	Weight (kg)	L (mm)	l1 (mm)	l2 (mm)	H (mm)
25 - 32	16 - 20	3-fold	**762 101 213**	2	0.052	103	46	40	77
25 - 32	16 - 20	4-fold	**762 101 212**	2	0.056	103	46	40	77

Accessories for Manifolds



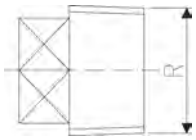


Plug long

From the INSTAFLEX range

R (inch)	Code	SP	Weight (kg)	D (mm)	L (mm)
¾	**760 857 144**	5	0.150	27	52



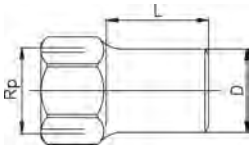


Plug

From the INSTAFLEX range

R (inch)	Code	SP	Weight (kg)
¾	**760 857 076**	5	0.058
1	**768 291 006**	10	0.115



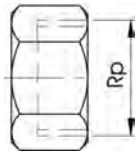


Cap long

From the INSTAFLEX range

Rp (inch)	Code	SP	Weight (kg)	D (mm)	L (mm)
¾	**760 857 142**	5	0.162	27	34





Cap

From the INSTAFLEX range

Rp (inch)	Code	Weight (kg)
¾	**760 857 074**	0.089
1	**760 857 075**	0.135

Tools



Tool set for ML- and PB pipes

d16 / d20 with pipe scissor, d25 / d32 with pipe cutter

d (mm)	Code	SP	Weight (kg)
16 / 20	**762 101 122**	1	1.163
25 / 32	**762 101 133**	1	1.371



Chamfering tool for ML- and PB pipes

d (mm)	Code	SP	Weight (kg)
16	**762 101 116**	1	0.188
20	**762 101 120**	1	0.205
25	**762 101 125**	1	0.252
32	**762 101 132**	1	0.323



Pipe shears d16-d20 for ML- and PB pipes

Also for cutting of protective pipe

d (mm)	Code	SP	Weight (kg)
16 / 20	**762 101 108**	1	0.322
Spare blades	**762 101 109**	1	0.014



Pipe cutter d16-d32 for ML- and PB pipes

d (mm)	Code	SP	Weight (kg)
16 - 32	**762 101 117**	1	0.386
Spare blades	**762 101 118**	1	0.005



Outside pipe bending tool for ML pipes

d (mm)	Code	SP	Weight (kg)
16	**762 101 112**	1	0.442
20	**762 101 113**	1	0.541
25	**762 101 114**	1	0.636
32	**762 101 115**	1	0.798



Chamerfing tool to battery tools

d (mm)	GF Code	SP	Weight (kg)
16	**762 101 351**	1	0.188
20	**762 101 352**	1	0.205
25	**762 101 353**	1	0.252
32	**762 101 354**	1	0.323



Tool case chamfering tool, empty

d (mm)	GF Code	SP	Weight (kg)
16 - 32	**762 101 363**	1	2.000



Grab rail set

d (mm)	GF Code	SP	Weight (kg)
16 - 32	**762 101 361**	1	0.050



Quick-change insert

d (mm)	GF Code	SP	Weight (kg)
16 - 32	**762 101 362**	1	0.039

Hycleen Automation System



Technical data

Materials
Gunmetal, stainless steel, plastics

Dimensions range
DN15 – DN20

Operating pressure
Up to 10 bar

Operating temperature
5°C to 90°C

Your benefits

- **Constant target temperature and regular water exchange**
- **Central controller and state display**
- **Logging and reporting**
- **Remote monitoring**

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Master & Powerbox



Hycleen Automation Master

- Description: master for max. 50 controller
- Consisting of: touchscreen 10.1", power supply, bluetooth connection, 2 plugs M12 for 2x 300m cable (500m with powerbox), 2 Rj45 jacks (Ethernet), 2 USB connections (read/write), USB jack (read only), relay output, screw set

Voltage	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)	Version
230V / 36V	**9900.000**	**351 110 656**	1	2.300	326	84	214	EU
230V / 36V	**9900.001**	**351 110 655**	1	2.300	326	84	214	CH



Hycleen Automation Powerbox

- Description: Power supply of Hycleen Automation System for expansion of 300m cable length to max. 500m per cable line
- Consisting of: 2m power cable, screw set

Voltage	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)	Version
230V / 36V	**9901.000**	**351 110 626**	1	1.000	244	64	164	EU
230V / 36V	**9901.001**	**351 110 625**	1	1.000	244	64	164	CH

Software Modules



BMS Gateway REST API/JSON

- Description: interface for data communication

JRG Code	SP	GF Code
9980.000	1	**351 110 790**



BMS Gateway BACnet IP

- Description: interface for data communication

JRG Code	SP	GF Code
9980.001	1	**351 110 791**





JRG LegioTherm 2T Circulation valve with controller, PN 10

- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM
- Factory setting: 57°C (adjustable 0 - 90°C) thermal desinfection 70°C (adjustable 60 - 90°C)
- Connection: male thread (for union connection with flat gasket)

DN (mm)	JRG Code	GF Code	SP	Weight (kg)
15	**9910.015**	**351 110 550**	1	0.820
20	**9910.020**	**351 110 590**	1	1.050
25	**9910.025**	**351 110 630**	1	1.400

DN (mm)	d1 G (inch)	d2 G (inch)	d3 Rp (inch)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	b (mm)	h1 (mm)	h2 (mm)	⬡
15	¾	½	¼	75	6	24	173	90	162	50	6
20	1	¾	¼	87	7	24	206	92	169	54	6
25	1 ¼	1	¼	99	8	24	233	100	179	56	6



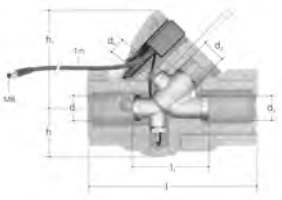


JRG LegioTherm K Flushing valve with controller, PN 10

- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM
- Factory setting: 20°C (adjustable 0 - 90°C)
- Connection: male thread (for union connection with flat gasket)

DN (mm)	JRG Code	GF Code	SP	Weight (kg)
15	**9920.015**	**351 110 600**	1	0.810
20	**9920.020**	**351 110 610**	1	1.020

DN (mm)	d1 G (inch)	d2 G (inch)	d3 Rp (inch)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	b (mm)	h1 (mm)	h2 (mm)	⬡
15	¾	½	¼	75	6	24	173	90	162	50	6
20	1	¾	¼	87	7	24	206	92	169	54	6



T-Sensor

- Description: Temperature sensor PT 1000
- Temperature: max. 90°C
- Material: gunmetal
- Connection: male thread, plug M8

d (mm)	JRG Code	SP	Weight (kg)	GF Code	d1 G (inch)	d2 G (inch)	d3 G (inch)	d4 Rp (inch)	l (mm)	l1 (mm)	h (mm)	h1 (mm)
15	**9951.015**	1	0.460	**351 110 535**	¾	½	¾	¼	173	75	50	162
20	**9951.020**	1	0.570	**351 110 661**	1	¾	1	¼	206	87	52	168



T-Sensor, dimension independent

- Description: Temperature sensor PT 1000
- Temperature: max. 90°C
- Connection: plug M8

d (inch)	Code	JRG Code	SP	Weight (kg)	G (inch)	l (m)	⬡
¼	**351 110 611**	**9952.000**	1	0.150	¼	1	17



Flow Sensor, PN 16

- Temperature: max. 90°C
- Material: brass
- Connection: male thread, plug M8

d G (inch)	DN (mm)	GF Code	JRG Code	SP	Weight (kg)	l (m)	l1 (mm)	h (mm)	h1 (mm)	h2 (mm)
1	20	**351 110 772**	**9950.020**	1	0.250	60	15	999	49	32

Cable & Accessories



Hycleen Automation power supply and communication cable

- Description: For serial connection of Hycleen Automation System components (master, controller), incl. 2x M12 plugs, ROHS

L (m)	Voltage	JRG Code	GF Code	SP	Weight (kg)	d (mm)	d1 (mm)
1.5	36V	**9940.001**	**351 110 581**	1	0.110	14.5	6.8
5	36V	**9940.005**	**351 110 582**	1	0.300	14.5	6.8
10	36V	**9940.010**	**351 110 583**	1	0.630	14.5	6.8
20	36V	**9940.020**	**351 110 584**	1	1.240	14.5	6.8
50	36V	**9940.050**	**351 110 585**	1	3.200	14.5	6.8



Hycleen Automation Coupling

- Description: Coupling between 2 Hycleen Automation power supply and communication cable
- Connection: plug M12

JRG Code	SP	Weight (kg)	GF Code	l (mm)	h (mm)
9941.000	1	0.100	**351 110 586**	58	14



Hycleen Automation Retrofit cable kit

- Description: Adapter cable kit for JRG LegioTherm cable

d	JRG Code	SP	Weight (kg)	GF Code	l (mm)	l1 (mm)
M12	**9942.000**	1	0.090	**351 110 588**	350	300



Sensor Extension Cable

- Description: connection between sensor and controller
- Connection: plug M8

GF Code	JRG Code	SP	Weight (kg)	l (m)	l1 (mm)	l2 (mm)
351 110 662	**9943.005**	1	0.110	5	34	42

Hycleen



Technical data

Materials
Gunmetal, plastics

Dimensions range
DN15 – DN100

Operating pressure
Up to 10 bar

Operating temperature
5°C to 90°C

Your benefits

- **Highly effective disinfectant against bacteria and biofilm**
- **Depot effect in the entire drinking water system**
- **Low risk application, low corrosion, easy to use**
- **No resistance development of micro-organisms**
- **Environmentally friendly disinfectant**
- **Automatic and cost-effective technique**

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Hycleen Des 30



Hycleen Des 30

- Description: Drinking water disinfection system for production of an electrochemically activated disinfection fluid
- Inlet water: Carbonate hardness 0-2°dH, flow pressure 3-10 bar, temperature 15-30°C, Connection ½", Electric connection 230 VAC (50 Hz), electric power 350 W, wall mounting 7 x M8
- Consisting of: 100 L brine tank with level monitor, 60 L cleaning tank with level indicator, 60 L Anolyte tank with level indicator

b (mm)	h (mm)	l (mm)	JRG Code	SP	GF Code	Weight (kg)
574	1750	1472	**9800.030**	1	**351 120 030**	120.000



Hycleen Des 30 Industry

- Description: Drinking water disinfection system for production of an electrochemically activated disinfection fluid
- Inlet water: Carbonate hardness 0-2°dH, flow pressure 3-10 bar, temperature 15-30°C, Connection ½", Electric connection 230 VAC (50 Hz), electric power 350 W, wall mounting 7 x M8
- Consisting of: 100 L brine tank with level monitor, 60 L cleaning tank with level indicator, 60 L Anolyte tank with level indicator

b (mm)	h (mm)	l (mm)	JRG Code	GF Code	SP	Weight (kg)
347	501	1080	**9800.002**	**351 120 260**	1	70.000



Hycleen Des 30 Mobile

- Description: Drinking water disinfection system for production of an electrochemically activated disinfection fluid
- Inlet water: Carbonate hardness 0-2°dH, flow pressure 3-10 bar, temperature 15-30°C, Connection ½", Electric connection 230 VAC (50 Hz), electric power 350 W
- Consisting of: 25 L brine tank with level monitor, 25 L cleaning + tank with level indicator + solution, 25 L Anolyte tank with level indicator

b (mm)	h (mm)	l (mm)	JRG Code	GF Code	SP	Weight (kg)
500	915	1200	**9800.003**	**351 120 250**	1	78.500

Accesories for Hycleen Des 30



Metering pump 12

- Descripiton: Stroke and number of pulses freely selectable, dosing quantity accuracy +/- 1.5 %, supply voltage 100-240 V AC, to Hycleen Des 30
- Pressure: max. 1000 kPa (10 bar)
- Consisting of: Pulse-controlled metering pump, PTFE diaphragm, control unit, wall bracket, connection cable

b (mm)	h (mm)	l (mm)	JRG Code	GF Code	SP	Weight (kg)
280	200	168	**9811.012**	**351 111 012**	1	10.000



Metering pump 60

- Descripiton: Stroke and number of pulses freely selectable, dosing quantity accuracy +/- 1.5 %, supply voltage 100-240 V AC, to Hycleen Des 30
- Pressure: max. 1000 kPa (10 bar)
- Consisting of: Pulse-controlled metering pump, PTFE diaphragm, control unit, wall bracket, connection cable

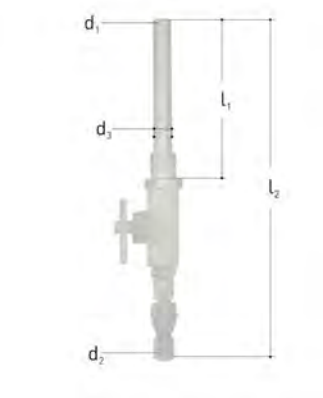
b (mm)	h (mm)	l (mm)	JRG Code	GF Code	SP	Weight (kg)
283	230	123	**9811.060**	**351 111 060**	1	5.000



Metering unit

- Description: to Hycleen Des 30
- Temperature: max. 5 - 70°C
- Material: PVDF, gunmetal (flat sealing)
- Consisting of: lance, 2-way ball valve, check valve

DN (mm)	JRG Code	SP	GF Code	Weight (kg)	d1 G (inch)	d2 (mm)	h (mm)	l (mm)
32	**9812.032**	1	**351 112 032**	5.400	1 ½	8	240	287
40	**9812.040**	1	**351 112 040**	10.000	1 ¾	8	237	292
50	**9812.050**	1	**351 112 050**	6.700	2 ⅜	8	246	348



Metering lance

- Description: to Hycleen Des 30 (for diameters larger than 70mm)
- Consisting of: 2-way ball valve, check valve

d1	JRG Code	SP	GF Code	Weight (kg)	d2 (mm)	d3 G (inch)	l1 (mm)	l2 (mm)
14/8	**9813.130**	1	**351 113 130**	0.150	8	½	150	288



Cold water meter, PN 16

- Temperature: max. 30°C
- Consisting of: Measuring principle multi-jet impeller meter, unions, metering range from 0.1 to 20 m^3/h, power input 220 mA / 48 VDC, protection class IP 68

DN (mm)	JRG Code	SP	GF Code	Weight (kg)	d R (inch)	l (mm)	Impuls (l)
32	**9815.032**	1	**351 115 032**	3.365	1 ½	375	1
40	**9815.040**	1	**351 115 040**	7.130	2	440	1
50	**9815.050**	1	**351 115 050**	8.890	2 ⅜	460	1



Cold water meter with flange, PN 16

- Temperature: max. 50°C
- Consisting of: Woltam turbine meter with dry-type registers, measure failure +/- 5%, connection power 220mA / 48 VDC, protection class IP 68, 2m cable

d (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
2 ½	65	**9815.065**	**351 115 065**	1	9.600
3	80	**9815.080**	**351 115 080**	1	14.200
4	100	**9815.100**	**351 115 100**	1	18.200
5	125	**9815.125**	**351 115 125**	1	20.700
6	150	**9815.150**	**351 115 150**	1	35.900
8	200	**9815.200**	**351 115 200**	1	56.900

d (inch)	DN (mm)	h (mm)	H (mm)	L (mm)	Nominal flow (m^3/h)	Minimum flow (m^3/h)	Impuls (l)
2 ½	65	185	205	200	70	0.8	1
3	80	200	245	225	120	1.2	1
4	100	220	255	250	230	1.8	1
5	125	250	278	250	250	3.0	1
6	150	285	312	300	450	4.5	10
8	200	340	366	350	800	7.5	10



Water Pre-treatment unit

- Description: to Hycleen Des 30
- Consisting of: backflow preventer, ion exchanger, water hardness check, fine filter

JRG Code	SP	Weight (kg)	GF Code	Package
9816.001	1	13.000	**351 120 300**	500x500x700



High-purity salt

- Description: to Hycleen Des 30
- Consisting of: Dehumidified, white, fine-grained, high-purity sodium chloride (NaCL > 99.8%) for manufacturing an electro-activated disinfectant

b (mm)	h (mm)	l (mm)	JRG Code	SP	GF Code	Weight (kg)
300	400	320	**9818.010**	1	**351 118 010**	25.740



Calzid Ex

- Description: to Hycleen Des 30
- Consisting of: Descaling and cleaning fluid composed of biodegradable acid

b (mm)	h (mm)	l (mm)	JRG Code	SP	GF Code	Weight (kg)
290	470	250	**9818.020**	1	**351 118 020**	26.910

JRG Sanipex MT



Technical data

Materials
PE-Xa, PE-Xc, PE-Xc/AL/PE-X, PPSU/PA-GF, gunmetal

Dimensions range
d16 mm – d63 mm

Operating pressure
Up to 10 bar

Operating temperature
0 to 70°C continuous operation, (short-term up to 95°C)

Your benefits

- **Superior low pressure losses**
- **Water pocket free hygienic connections**
- **Detachable and reusable connection without sealing**
- **Hardly any noise pollution**
- **Handy installation tools**
- **Hycienically perfect**
- **Type III Environmental Product Declaration (EPD)**
- **LEED, BREAM & DGNB credit reports**

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Pipes



JRG Sanipex MT pipe in bars

In bars, multilayer pipe (PE-X/AL/PEX), according DVGW W542 and EN ISO 21003, inner pex pipe (white) and outer pex coating (black) made of cross linked polyethylen (PE-X), support pipe in aluminium, butt welded, for drinking water 70°C/10 bar, heating max.95°C and compressed air installations (dry and oil free)

d (mm)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	l (m)	s (mm)
16	12	**4600.016**	**351 616 702**	125	0.675	5	2.25
20	15	**4600.020**	**351 620 702**	80	0.925	5	2.50
26	20	**4600.026**	**351 626 702**	45	1.425	5	3.00
32	25	**4600.032**	**351 632 702**	35	1.965	5	3.00
40	32	**4600.040**	**351 640 902**	20	3.025	5	3.50
50	40	**4600.050**	**351 650 902**	25	0.886	5	4.00
63	50	**4600.063**	**351 663 902**	20	1.265	5	4.50
16	12	**4600.316**	**351 616 712**	75	0.405	3	2.25
20	15	**4600.320**	**351 620 712**	48	0.555	3	2.50
26	20	**4600.326**	**351 626 712**	27	0.855	3	3.00
32	25	**4600.332**	**351 632 712**	21	1.179	3	3.00
40	32	**4600.340**	**351 640 912**	12	0.605	3	3.50



JRG Sanipex MT pipe in protective pipe in coils

In coils, with black PE-protection conduit, multilayer pipe, (PE-X/AL/PE-X) according DVGW W542 and EN ISO 21003, inner pex pipe (white) and outer pex coating (white) made of cross linked polyethylen (PE-X), support pipe in aluminium, butt welded, for drinking water 70°C/10 bar, heating max.95°C and compressed air installations 40°C/15 bar (dry and oil free)

d (mm)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	l (m)	s (mm)
16	12	**4602.016**	**351 616 734**	50	0.206	25	50	2.25
20	15	**4602.020**	**351 620 734**	50	0.300	29	50	2.50



JRG Sanipex MT pipe in coils

In coils, multilayer pipe (PE-X/AL/PE-X) according DVGW W542 and EN ISO 21003, inner pex pipe (white) made of cross linked polyethylen (PE-X), outer coating made of polyethylen (PE-X), support pipe in aluminium, butt welded, for drinking water 70°C / 10 bar, heating max. 95°C and compressed air installations 40°C / 15 bar (dry and oil free)

d (mm)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	l (m)	s (mm)	kg/m (kg/m)
12	8	**4604.112**	**351 612 014**	100	6.900	100	1.70	0.069
16	12	**4604.016**	**351 616 714**	50	6.650	50	2.25	0.133
20	15	**4604.020**	**351 620 714**	50	9.850	50	2.50	0.197
26	20	**4604.026**	**351 626 714**	50	14.900	50	3.00	0.298
32	25	**4604.032**	**351 632 714**	50	19.650	50	3.00	0.393

Fittings



Coupling

Made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l1 (mm)	z1 (mm)
16	**4690.016**	**351 616 920**	10	0.026	76	37
20	**4690.020**	**351 620 920**	10	0.040	90	42
26	**4690.026**	**351 626 920**	10	0.077	108	50
32	**4690.032**	**351 632 920**	5	0.190	127	53
40	**4690.040**	**351 640 920**	1	0.240	150	62
50	**4690.050**	**351 650 820**	1	0.385	166	64
63	**4690.063**	**351 663 820**	1	0.740	205	79



Double union

From JRG Sanipex MT pipe, prefabricated with two plastic cone grip unions MT, for JRG Sanipex components

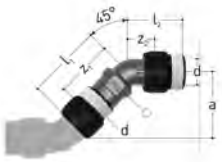
d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)
16	**4692.016**	**351 616 940**	10	0.019	35
20	**4692.020**	**351 620 940**	10	0.031	46
26	**4692.026**	**351 626 940**	10	0.060	57
32	**4692.032**	**351 632 940**	5	0.108	72
40	**4692.040**	**351 640 940**	5	0.190	84
50	**4692.050**	**351 650 940**	1	0.330	104
63	**4692.063**	**351 663 940**	1	0.610	126



Elbow 45°

Made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT for JRG Sanipex d20 and JRG Sanipex MT pipes

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l1 (mm)	l2 (mm)	z1 (mm)	z2 (mm)
20	**4676.020**	**351 620 923**	10	0.041	45	45	21	21
26	**4676.026**	**351 626 923**	10	0.075	56	56	27	27
32	**4676.032**	**351 632 923**	5	0.140	69	69	32	32
40	**4676.040**	**351 640 923**	1	0.260	81	81	37	37
50	**4676.050**	**351 650 823**	1	0.440	98	98	47	47
63	**4676.063**	**351 663 823**	1	0.840	119	119	56	56



Elbow 45° with loose nut

Made of plastic, two layer technology, inner lining made of PPSU and cover made of PA plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d (mm)	JRG Code	GF Code	SP	Weight (kg)	a (mm)	l1 (mm)	l2 (mm)	z1 (mm)	z2 (mm)	⬡
26	**4676.226**	**351 626 950**	10	0.300	65	76	58	65	27	36
32	**4676.232**	**351 632 965**	5	0.480	72	82	72	70	32	43
40	**4676.240**	**351 640 948**	1	0.790	84	96	84	82	37	50
50	**4676.250**	**351 650 936**	1	1.130	90	98	98	80	48	60
63	**4676.263**	**351 663 936**	1	2.010	111	121	119	101	57	70



Elbow 45° with female thread

Made of gunmetal, with female thread plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes

d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1	l1 (mm)	l2 (mm)	z1 (mm)	z2 (mm)	⬡
26	**4677.250**	**351 626 951**	5	0.180	3/4	58	35	27	21	36
32	**4677.310**	**351 632 966**	5	0.270	1	72	32	32	15	43
40	**4677.410**	**351 640 949**	1	0.430	1 1/4	84	37	37	18	50
50	**4677.510**	**351 650 937**	1	0.700	1 1/2	98	42	48	23	60
63	**4677.610**	**351 663 937**	1	1.230	2	119	50	57	27	70



Elbow 90°

Made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l1 (mm)	l2 (mm)	z1 (mm)	z2 (mm)
16	**4670.016**	**351 616 922**	10	0.030	46	46	27	27
20	**4670.020**	**351 620 922**	10	0.045	55	55	31	31
26	**4670.026**	**351 626 922**	10	0.090	68	68	39	39
32	**4670.032**	**351 632 922**	5	0.155	82	82	45	45
40	**4670.040**	**351 640 922**	1	0.285	99	99	55	55
50	**4670.050**	**351 650 822**	1	0.455	114	114	63	63
63	**4670.063**	**351 663 822**	1	0.880	142	142	79	79



Elbow 90° with female thread

Made of gunmetal, with female thread plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes

d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d1 Rp (inch)	l1 (mm)	l2 (mm)	z1 (mm)	z2 (mm)	⬡
16	⅜	**4671.100**	**351 616 918**	10	0.072	⅜	46	27	27	17	25
16	½	**4671.110**	**351 616 974**	10	0.100	½	43	33	25	17	27
20	½	**4671.210**	**351 620 918**	10	0.120	½	55	34	31	21	30
20	¾	**4671.220**	**351 620 974**	10	0.140	¾	56	36	30	22	32
26	¾	**4671.250**	**351 626 949**	10	0.180	¾	68	37	39	23	36
32	1	**4671.310**	**351 632 964**	5	0.310	1	85	45	45	28	43
40	1 ¼	**4671.410**	**351 640 947**	1	0.500	1 ¼	99	50	55	31	50
50	1 ½	**4671.510**	**351 650 935**	1	0.770	1 ½	114	59	63	40	60
63	2	**4671.610**	**351 663 935**	1	1.350	2	142	67	79	44	70



Elbow with male thread

Made of gunmetal, with male thread, plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d1 R (inch)	l1 (mm)	l2 (mm)	z1 (mm)	⬡
16	½	**4672.110**	**351 616 975**	10	0.070	½	44	31	25	18
20	½	**4672.210**	**351 620 975**	10	0.092	½	50	33	27	21
20	¾	**4672.220**	**351 620 976**	10	0.105	¾	52	35	30	21
26	¾	**4672.250**	**351 626 993**	10	0.180	¾	69	54	39	27
32	1	**4672.310**	**351 632 994**	5	0.280	1	83	60	45	32
40	1 ¼	**4672.410**	**351 640 994**	1	0.480	1 ¼	106	74	55	46
50	1 ½	**4672.510**	**351 650 994**	1	0.779	1 ½	111	62	60	50



Elbow 90° with loose nut

Made of gunmetal, plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d (mm)	JRG Code	GF Code	SP	Weight (kg)	a (mm)	b (mm)	l1 (mm)	l2 (mm)	z1 (mm)	z2 (mm)	⬡
16	**4670.216**	**351 616 917**	10	0.111	73	16	53	46	46	27	25
20	**4670.220**	**351 620 917**	10	0.180	89	20	67	58	58	32	30
26	**4670.226**	**351 626 948**	10	0.300	106	26	80	71	67	39	36
32	**4670.232**	**351 632 963**	5	0.120	128	32	98	86	82	46	43
40	**4670.240**	**351 640 946**	1	0.860	150	40	113	103	95	56	50
50	**4670.250**	**351 650 934**	1	1.200	157	50	115	114	94	65	60
63	**4670.263**	**351 663 934**	1	2.110	188	63	138	142	110	82	70



Elbow adapter with loose nut

Made of gunmetal, with female thread and gasket* with loose nut made of brass and cone grip union MT made of plastic, for JRG Sanipex pipes and JRG Sanipex MT pipes.
* AFM 34 gaskets must not be oiled nor greased.

d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d2 G (inch)	l1 (mm)	l2 (mm)	z1 (mm)	z2 (mm)
16	**4674.016**	**351 563 023**	5	0.091	16	½	46	32	27	22



Tee

Made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d-d-d (mm)	JRG Code	GF Code	SP	Weight (kg)
16 - 16 - 16	**4650.016**	**351 616 921**	10	0.040
20 - 20 - 20	**4650.020**	**351 620 921**	10	0.070
26 - 26 - 26	**4650.026**	**351 626 921**	10	0.130
32 - 32 - 32	**4650.032**	**351 632 921**	5	0.220
40 - 40 - 40	**4650.040**	**351 640 921**	1	0.420
50 - 50 - 50	**4650.050**	**351 650 821**	1	0.660
63 - 63 - 63	**4650.063**	**351 663 821**	1	1.295



d-d-d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
16 - 16 - 16	16	16	16	46	46	46	27	27	27
20 - 20 - 20	20	20	20	55	55	55	31	31	31
26 - 26 - 26	26	26	26	68	68	68	39	39	39
32 - 32 - 32	32	32	32	82	82	82	45	45	45
40 - 40 - 40	40	40	40	99	99	99	55	55	55
50 - 50 - 50	50	50	50	114	114	114	64	64	64
63 - 63 - 63	63	63	63	142	142	142	79	79	79



Tee reduced

Made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT, for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d-d-d (mm)	JRG Code	GF Code	SP	Weight (kg)
20 - 16 - 16	**4652.110**	**351 620 924**	10	0.050
20 - 16 - 20	**4652.112**	**351 620 926**	10	0.060
20 - 20 - 16	**4652.114**	**351 620 927**	10	0.060
26 - 16 - 26	**4652.214**	**351 626 924**	10	0.100
26 - 20 - 20	**4652.218**	**351 626 928**	10	0.095
26 - 20 - 26	**4652.220**	**351 626 925**	10	0.110
26 - 26 - 20	**4652.222**	**351 626 929**	10	0.110
32 - 16 - 32	**4652.316**	**351 632 924**	5	0.170
32 - 20 - 32	**4652.324**	**351 632 928**	5	0.180
32 - 26 - 26	**4652.330**	**351 632 930**	5	0.170
32 - 26 - 32	**4652.332**	**351 632 929**	5	0.181
40 - 26 - 32	**4652.426**	**351 640 932**	1	0.280
40 - 26 - 40	**4652.428**	**351 640 928**	1	0.330
40 - 32 - 32	**4652.436**	**351 640 931**	1	0.310
40 - 32 - 40	**4652.438**	**351 640 930**	1	0.360

d-d-d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
20 - 16 - 16	20	16	16	55	48	46	31	29	27
20 - 16 - 20	20	16	20	55	48	55	31	29	31
20 - 20 - 16	20	20	16	55	55	48	31	31	29
26 - 16 - 26	26	16	26	68	52	68	39	33	39
26 - 20 - 20	26	20	20	68	59	55	39	35	31
26 - 20 - 26	26	20	26	68	59	68	39	35	39
26 - 26 - 20	26	26	20	68	68	59	39	39	35

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d-d-d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
32 - 16 - 32	32	16	32	82	57	82	45	38	45
32 - 20 - 32	32	20	32	82	64	82	45	40	45
32 - 26 - 26	32	26	26	82	73	68	45	44	39
32 - 26 - 32	32	26	32	82	73	82	45	44	45
40 - 26 - 32	40	26	32	99	79	82	55	50	45
40 - 26 - 40	40	26	40	99	79	99	55	50	55
40 - 32 - 32	40	32	32	99	89	82	55	52	45
40 - 32 - 40	40	32	40	99	89	99	55	52	55



Tee reduced

Made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT for JRG Sanipex MT pipes

d-d-d (mm)	JRG Code	GF Code	SP	Weight (kg)
50 - 26 - 50	**4652.530**	**351 650 827**	1	0.500
50 - 32 - 50	**4652.534**	**351 650 828**	1	0.525
50 - 40 - 40	**4652.544**	**351 650 829**	1	0.490
50 - 40 - 50	**4652.546**	**351 650 830**	1	0.570
63 - 26 - 63	**4652.634**	**351 663 828**	1	0.925
63 - 32 - 63	**4652.638**	**351 663 829**	1	0.955
63 - 40 - 63	**4652.642**	**351 663 830**	1	1.000
63 - 50 - 63	**4652.656**	**351 663 831**	1	1.105

d-d-d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
50 - 26 - 50	50	26	50	114	75	114	63	46	63
50 - 32 - 50	50	32	50	114	85	114	63	48	63
50 - 40 - 40	50	40	40	114	96	96	63	52	52
50 - 40 - 50	50	40	50	114	96	114	63	52	63
63 - 26 - 63	63	26	63	142	84	142	79	55	79
63 - 32 - 63	63	32	63	142	94	142	79	57	79
63 - 40 - 63	63	40	63	142	104	142	79	60	79
63 - 50 - 63	63	50	63	142	120	142	79	69	79



Tee with female thread

Made of gunmetal, with female thread, and plastic cone grip unions MT for JRG Sanipex d16/20 and JRG Sanipex MT pipes

GN (inch)	d-d (mm)	JRG Code	GF Code	SP	Weight (kg)
½	16 - 16	**4654.110**	**351 616 044**	5	0.130
½	20 - 20	**4654.210**	**351 620 944**	5	0.190
½	26 - 26	**4654.220**	**351 626 944**	5	0.270
¾	26 - 26	**4654.250**	**351 626 945**	5	0.295
½	32 - 32	**4654.290**	**351 632 944**	5	0.410
¾	32 - 32	**4654.310**	**351 632 945**	5	0.430

GN (inch)	d-d (mm)	d1 (mm)	d2 Rp (inch)	d3 (mm)	l (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
½	16 - 16	16	½	16	108	54	27	54	35	12	35
½	20 - 20	20	½	20	125	63	28	63	39	13	39
½	26 - 26	26	½	26	149	70	34	70	41	19	41
¾	26 - 26	26	¾	26	149	70	34	70	41	18	41
½	32 - 32	32	½	32	172	86	34	86	49	19	49
¾	32 - 32	32	¾	32	182	86	34	86	49	18	49



Tee with male thread

Made of gunmetal, with male thread, and plastic cone grip unions MT for JRG Sanipex and JRG Sanipex MT pipes

d-d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d1 Rp (inch)	l1 (mm)	l2 (mm)	l3 (mm)	z2 (mm)	z3 (mm)
16 - 16	½	**4655.100**	**351 616 972**	10	0.100	½	29	44	44	26	26
16 - 16	¾	**4655.200**	**351 616 973**	10	0.135	¾	35	44	44	26	26
20 - 20	¾	**4655.220**	**351 620 973**	10	0.170	¾	35	52	52	30	30

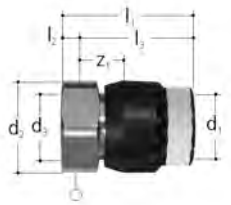


Tee with distributor connection

Made of gunmetal, with male thread, plastic cone grip union MT, for JRG Sanipex d25 and JRG Sanipex MT pipes

d1 (mm)	GN (inch)	d3 (mm)	JRG Code	GF Code	SP	Weight (kg)
26	1	26	**4657.250**	**351 626 943**	2	0.281
32	1	32	**4657.310**	**351 632 943**	2	0.419

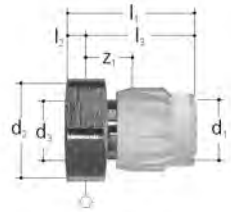
d1 (mm)	GN (inch)	d3 (mm)	d2 G (inch)	l (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	z3 (mm)	z2 (mm)
26	1	26	1	140	70	30	70	41	41	22
32	1	32	1	172	86	30	86	49	49	22



Adapter with cone

In gunmetal, with female thread, gasket, insert-Eurocone and plastic cone grip union MT for the heating element connection

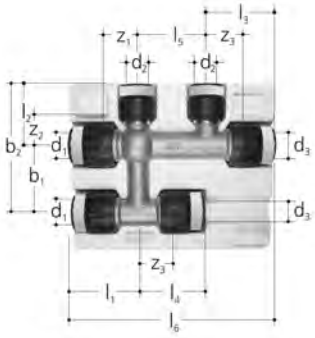
d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d2 G (inch)	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	⬡
16	**4663.016**	**351 564 402**	10	0.065	16	¾	18	42	8	34	15	32
20	**4663.020**	**351 564 403**	10	0.080	20	¾	18	47	8	39	16	32

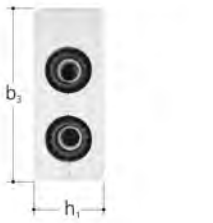


Adapter with cone, nickel-coated

In gunmetal, nickel-coated, with female thread, gasket, insert-Eurocone and plastic cone grip union MT, white, for the heating element connection

d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d2 G (inch)	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	⬡
16	**4663.116**	**351 564 412**	2	0.060	16	¾	18	42	8	34	15	32





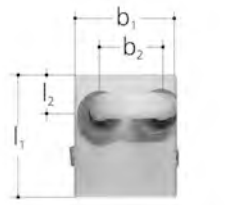
Cross-piece

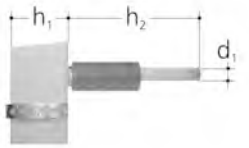
In gunmetal, with plastic cone grip union MT, including insulating-jacket for a cross-free connection to the heating element

d1 (mm)	d2 (mm)	d3 (mm)	JRG Code	GF Code	SP	Weight (kg)
16	16	16	**4664.016**	**351 616 938**	1	0.400
20	20	20	**4664.018**	**351 620 955**	1	0.400
20	16	20	**4664.020**	**351 616 939**	1	0.400
20	16	16	**4664.022**	**351 620 956**	1	0.435

d1 (mm)	d2 (mm)	d3 (mm)	b1 (mm)	b2 (mm)	b3 (mm)	h1 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	l6 (mm)	z1 (mm)	z2 (mm)	z3 (mm)
16	16	16	50	95	135	50	45	45	45	45	50	160	27	27	27
20	20	20	50	95	135	50	54	54	54	54	50	160	30	30	30
20	16	20	50	95	135	50	54	45	54	54	50	160	30	27	30
20	16	16	50	95	135	50	54	45	45	45	50	160	30	27	27

d1 (mm)	d2 (mm)	d3 (mm)	Thermal conductivity (W/mK)
16	16	16	0.035
20	20	20	0.035
20	16	20	0.035
20	16	16	0.035



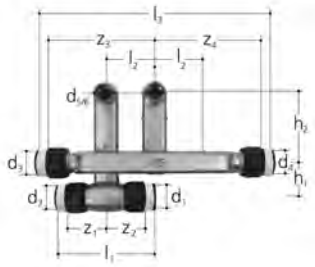


Concealed connection unit for radiator

Pipe loop made of formstable JRG Sanipex MT pipe, with PU foam insulation box, FCKW free and fixation tape, for radiator mounting after conclusion of plaster and painting work

d (mm)	JRG Code	GF Code	SP	Weight (kg)
16	**4665.100**	**351 564 801**	1	0.330

d (mm)	b1 (mm)	b2 (mm)	d1 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	Thermal conductivity (W/mK)
16	100	50	16	70	170	120	40	0.035



Baseboard Set

Made of brass, with male thread, for radiator connection from the baseboard, with plastic cone grip union MT, optionally mountable below radiator on left or right, without adjusting bend or adjusting shut-off elbow connections, with clamp ring and clamp screws 1/2" x 15mm

d-d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)
16 - 16	½	**4666.016**	**351 616 420**	1	0.850
16 - 20	½	**4666.116**	**351 616 421**	1	0.870
20 - 20	½	**4666.020**	**351 620 420**	1	0.990
20 - 16	½	**4666.120**	**351 620 421**	1	0.860

d-d (mm)	GN (inch)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	d5 G (inch)	d6	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	z2 (mm)
16 - 16	½	16	16	16	16	½	Cu 15x1	35	70	95	50	235	29	29
16 - 20	½	16	20	20	16	½	Cu 15x1	35	70	100	50	240	29	28
20 - 20	½	20	20	20	20	½	Cu 15x1	35	70	105	50	248	28	28
20 - 16	½	20	16	16	20	½	Cu 15x1	35	70	100	50	240	28	29

d-d (mm)	GN (inch)	z3 (mm)	z4 (mm)
16 - 16	½	99	99
16 - 20	½	99	98
20 - 20	½	98	98
20 - 16	½	98	99



Reduction

Made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d1 (mm)	d (mm)	JRG Code	GF Code	SP	Weight (kg)	l1 (mm)	z1 (mm)
20	16	**4730.100**	**351 620 925**	1	0.035	58.0	31
26	16	**4730.102**	**351 626 926**	1	0.050	70.5	41
26	20	**4730.104**	**351 626 927**	1	0.055	74.0	39
32	16	**4730.106**	**351 632 925**	1	0.075	82.0	52
32	20	**4730.108**	**351 632 926**	1	0.075	87.0	50
32	26	**4730.110**	**351 632 927**	1	0.095	92.0	50
40	16	**4730.112**	**351 640 924**	1	0.125	94.0	61
40	20	**4730.114**	**351 640 925**	1	0.132	100.0	61
40	26	**4730.116**	**351 640 926**	1	0.140	105.0	61
40	32	**4730.118**	**351 640 927**	1	0.160	111.0	58

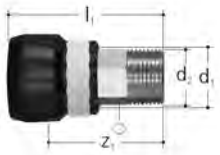




Reduction

Made of plastic, two layer technology, inner lining made of PPSU and cover made of PA, plastic cone grip unions MT

d (mm)	d1 (mm)	JRG Code	GF Code	SP	Weight (kg)	l1 (mm)	z1 (mm)
26	50	**4730.124**	**351 650 824**	1	0.160	110	57
32	50	**4730.126**	**351 650 825**	1	0.185	118	58
40	50	**4730.128**	**351 650 826**	1	0.240	128	59
32	63	**4730.136**	**351 663 825**	1	0.100	134	67
40	63	**4730.138**	**351 663 826**	1	0.345	145	71
50	63	**4730.140**	**351 663 827**	1	0.430	158	77



Adapter with male thread and MT connecting nut

Made of gunmetal, with male thread, suitable to plastic cone grip union MT with preinstalled MT connecting nut, for JRG Sanipex MT components

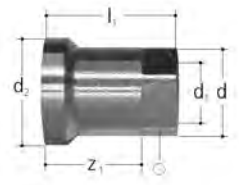
d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d2 R (inch)	l1 (mm)	z1 (mm)	⬡
20	½	**4696.210**	**351 620 931**	1	0.090	20	½	59	34	18
26	¾	**4696.220**	**351 626 960**	1	0.155	26	¾	70	41	23



Adapter with male thread

Made of gunmetal, with male thread suitable to plastic cone grip union MT for JRG Sanipex MT components

d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d1 R (inch)	d2 (mm)	l1 (mm)	z1 (mm)	⬡
26	½	**4696.215**	**351 626 983**	1	0.115	½	32	55	42	21
32	½	**4696.315**	**351 632 984**	1	0.170	½	39	62	49	21
32	¾	**4696.320**	**351 632 982**	1	0.205	¾	39	65	50	27
40	½	**4696.415**	**351 640 987**	1	0.278	½	49	69	56	21
40	¾	**4696.420**	**351 640 982**	1	0.310	¾	49	72	57	27
40	1	**4696.425**	**351 640 983**	1	0.330	1	49	78	59	32



Adapter with female thread

Made of gunmetal, with female thread, suitable to plastic cone grip union MT for JRG Sanipex MT components

d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d2 (mm)	l1 (mm)	z1 (mm)	⬡
26	⅜	**4697.210**	**351 626 982**	1	0.105	32	39	27	24
32	½	**4697.315**	**351 632 983**	1	0.160	39	47	34	27
40	½	**4697.415**	**351 640 984**	1	0.270	49	54	40	27
40	¾	**4697.420**	**351 640 985**	1	0.260	49	55	40	32



Adapter to valves

- Description: for JRG Sanipex d16/20, JRG Sanipex MT Pipes
- Material: gunmetal, plastic
- Connection: JRG Sanipex MT

d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d1 G (inch)	l1 (mm)	l2 (mm)	l3 (mm)	z1 (mm)	⬡
16	½	**4700.096**	**351 616 992**	10	0.000	½	44.0	6.0	38.0	14.5	27
16	¾	**4700.102**	**351 616 994**	10	0.066	¾	39.0	6.0	33.0	14.5	32
20	¾	**4700.104**	**351 620 992**	10	0.070	¾	44.0	6.0	38.0	15.5	32
16	1	**4700.108**	**351 616 936**	10	0.135	1	42.5	7.0	35.5	22.5	37
20	1	**4700.110**	**351 620 936**	10	0.080	1	49.0	7.0	42.0	20.5	37
26	1	**4700.112**	**351 626 994**	5	0.115	1	54.5	7.0	47.5	18.5	37
16	1 ¼	**4700.120**	**351 616 996**	1	0.130	1 ¼	41.0	8.0	33.0	14.5	46
20	1 ¼	**4700.122**	**351 620 994**	1	0.130	1 ¼	46.0	8.0	38.0	15.5	46
26	1 ¼	**4700.124**	**351 626 995**	1	0.150	1 ¼	55.5	8.0	47.5	18.5	46
32	1 ¼	**4700.126**	**351 632 995**	1	0.200	1 ¼	65.5	8.0	57.5	19.5	46
26	1 ½	**4700.128**	**351 626 996**	1	0.200	1 ½	56.5	9.0	47.5	18.5	54
32	1 ½	**4700.130**	**351 632 996**	1	0.260	1 ½	66.5	9.0	57.5	19.5	54
40	1 ½	**4700.132**	**351 640 995**	1	0.330	1 ½	77.5	9.0	68.5	23.5	55
40	2	**4700.136**	**351 640 996**	1	0.420	2	82.5	13.5	69.0	24.5	67
50	1 ¾	**4700.134**	**351 650 995**	1	0.550	1 ¾	81.5	10.0	71.5	33.0	60
50	2 ¼	**4700.138**	**351 650 996**	1	0.667	2 ¼	82.5	11.0	71.5	34.0	72
63	2 ⅜	**4700.140**	**351 663 995**	1	0.950	2 ⅜	99.5	11.0	88.5	39.0	78
63	2 ¾	**4700.142**	**351 663 996**	1	1.050	2 ¾	100.0	13.5	86.5	40.0	89



Adapter to distributor

Made of gunmetal, with male thread, plastic cone grip union MT for JRG Sanipex d20 and JRG Sanipex MT pipes

d (mm)	GN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 G (inch)	l2 (mm)	z1 (mm)	⬡
20	1	**4705.020**	**351 620 989**	10	0.120	1	58	35	30
26	1	**4705.026**	**351 626 991**	5	0.150	1	68	39	30
32	1	**4705.032**	**351 632 993**	5	0.185	1	78	38	30



Adapter with male thread

Made of gunmetal, with male thread, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d1 R (inch)	l1 (mm)	z1 (mm)	⬡
16	½	**4710.110**	**351 616 997**	10	0.070	16	½	50	31	21
16	¾	**4710.150**	**351 620 933**	10	0.100	16	¾	57	37	21
20	½	**4710.210**	**351 620 995**	10	0.077	20	½	59	36	21
20	¾	**4710.220**	**351 620 996**	10	0.110	20	¾	60	37	21
26	¾	**4710.250**	**351 626 997**	5	0.130	26	¾	74	44	27
26	1	**4710.260**	**351 626 987**	5	0.160	26	1	77	47	30
32	1	**4710.310**	**351 632 997**	5	0.200	32	1	88	50	32
40	1 ¼	**4710.410**	**351 640 997**	1	0.440	40	1 ¼	103	58	46
50	1 ½	**4710.510**	**351 650 997**	1	0.550	50	1 ½	118	67	50
63	2	**4710.610**	**351 663 997**	1	0.990	63	2	143	80	65



Connecting piece with external thread, nickel-coated

In gunmetal nickel-coated, with male thread and plastic cone grip union MT for the heating element connection, for JRG Sanipex MT pipes

d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d1 R (inch)	l1 (mm)	z1 (mm)	⬡
16	½	**4710.115**	**351 564 901**	10	0.070	½	50	31	21
16	¾	**4710.150**	**351 620 933**	10	0.100	¾	57	37	21
20	½	**4710.215**	**351 565 101**	10	0.080	½	59	36	21
20	¾	**4710.225**	**351 565 201**	10	0.117	¾	60	37	21
26	¾	**4710.255**	**351 565 301**	5	0.120	¾	74	44	27



Adapter with female thread

Made of gunmetal, with female thread, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)	d1 R (inch)	l1 (mm)	z1 (mm)	⬡
16	½	**4712.110**	**351 616 998**	10	0.070	½	47	15	27
20	½	**4712.210**	**351 620 997**	10	0.078	½	51	15	27
20	¾	**4712.220**	**351 620 998**	5	0.100	¾	54	17	32
26	½	**4712.240**	**351 626 988**	5	0.103	½	64	16	27
26	¾	**4712.250**	**351 626 998**	5	0.120	¾	61	17	32
26	1	**4712.260**	**351 626 984**	5	0.190	1	67	20	41
32	1	**4712.310**	**351 632 998**	5	0.220	1	74	19	41
40	1 ¼	**4712.410**	**351 640 998**	1	0.350	1 ¼	86	22	50
50	1 ½	**4712.510**	**351 650 998**	1	0.480	1 ½	95	44	55
63	2	**4712.610**	**351 663 998**	1	0.900	2	115	52	70



Adapter JRG Sanipex MT - JRG Sanipex

Made of gunmetal, with plastic one grip union MT made of plastic and cone grip union made of brass

d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	l1 (mm)	z1 (mm)	⬡
16 - 12	**4713.012**	**351 616 990**	5	0.060	16	12	54	34	13



JRG Sanipex MT Adapter to push-in connection, PN 10

- Description: for stainless steel / copper pipes
- Temperature: max. 90°C
- Material: gunmetal, PPSU
- Connection: push-in system sudoFIT

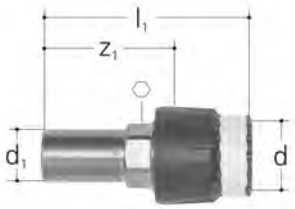
d (mm)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	l1 (mm)	z1 (mm)
16 - 12	10	**4714.098**	**351 060 500**	5	0.065	16	12	55	16
16 - 15	12	**4714.100**	**351 060 501**	1	0.075	16	15	62	21
20 - 18	15	**4714.104**	**351 060 511**	1	0.125	20	18	76	24
20 - 22	15	**4714.105**	**351 060 516**	1	0.140	20	22	82	25
26 - 22	20	**4714.106**	**351 060 521**	1	0.140	26	22	75	15
32 - 28	25	**4714.108**	**351 060 531**	1	0.245	32	28	93	14
40 - 35	32	**4714.110**	**351 060 541**	1	0.380	40	35	107	16



Adapter with compression joint union

Made of gunmetal, with hex nut union for copper pipe and plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT -pipes

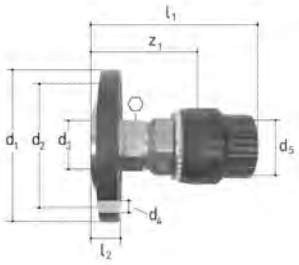
d (mm)	d-d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	l1 (mm)	z1 (mm)	⬡
10	16 - 10	**4715.016**	**351 616 923**	10	0.060	16	56	11	19



Adapter with press-fit end

Made of gunmetal, cone grip unions MT made of plastic, to JRG Sanipex d16 / d20 and JRG Sanipex MT pipes
*available from October 2018

	DN-d (mm)	JRG Code	GF Code	SP	Weight (kg)	d (mm)	d1 (mm)	l1 (mm)	z1 (mm)	⬡
*	12 - 16	**4716.098**	**351 616 926**	1	0.046	16	12	60	39	16
	15 - 16	**4716.100**	**351 616 924**	1	0.046	16	15	65	45	16
	18 - 16	**4716.101**	**351 616 925**	1	0.052	16	18	65	45	18
	18 - 20	**4716.104**	**351 620 941**	1	0.068	20	18	74	48	20
	22 - 20	**4716.105**	**351 620 942**	1	0.081	20	22	75	49	22
	22 - 26	**4716.106**	**351 626 941**	1	0.097	26	22	85	53	27
	28 - 26	**4716.108**	**351 626 942**	1	0.123	26	28	86	54	30

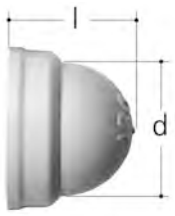


Flange adapter set

- Material: gunmetal, PPSU
- Connection: JRG Sanipex MT - Flange

d (mm)	GN (mm)	JRG Code	SP	Weight (kg)	GF Code
32	25	**4725.032**	1	1.040	**351 632 532**
40	32	**4725.040**	1	1.490	**351 640 540**
50	40	**4725.050**	1	1.920	**351 650 550**
63	50	**4725.060**	1	3.120	**351 663 563**

d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	d5 (mm)	l1 (mm)	l2 (mm)	z1 (mm)	⬡
32	115	85	25	14	32	128	24	86	32
40	140	100	37	18	40	142	25	92	40
50	150	110	43	18	50	158	27	100	50
63	165	125	55	18	63	184	31	109	65



Cap

Made of PPSU plastic, as lasting plug for plastic cone grip union MT for JRG Sanipex MT components

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)
16	**4695.016**	**351 616 904**	10	0.002	16
20	**4695.020**	**351 620 904**	10	0.003	19
26	**4695.026**	**351 626 904**	10	0.007	24
32	**4695.032**	**351 632 904**	10	0.012	28
40	**4695.040**	**351 640 904**	10	0.020	34



Cap

Made of gunmetal, as durable connection for cone grip union MT made of plastic, for JRG Sanipex MT components

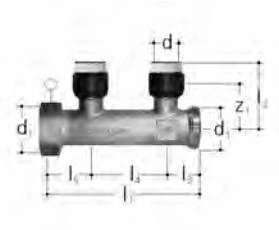
d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)
50	**4695.050**	**351 650 904**	1	0.140	18
63	**4695.063**	**351 663 904**	1	0.275	22



Distributor 1-way

Made of gunmetal, with loose nut, *flat gasket, male thread and plastic cone grip union MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation.
Change over, cap and plug to distributor 4640 see 4705, 5430, 5433, stop valve for distributor 4640 see 4771, marking sleeve to distributor 4640 see 5734, heat insulation to 4640 see 5758, accessories to protection cover to 4640 see 5758, fixing accessories to 4640 see 5738, 5738, 5739, 5740, 5754, access panel with door and built in box to 4640 see 5760, 5762, 5765
* AFM 34 flat gaskets must not be oiled and greased

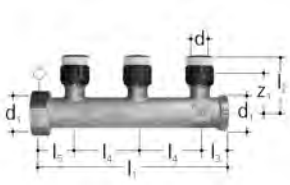
d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 G (inch)	l1 (mm)	l2 (mm)	l3 (mm)	l5 (mm)	z1 (mm)	⬡
16	**4640.116**	**351 616 965**	1	0.210	1	55	50	24	31	31	37
20	**4640.120**	**351 620 965**	1	0.210	1	55	60	24	31	38	37



Distributor 2-way

Made of gunmetal, with loose nut, *flat gasket, male thread and plastic cone grip unions MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation.
Change over, cap and plug to distributor 4640 see 4705, 5430, 5433, stop valve for distributor 4640 see 4771, marking sleeve to distributor 4640 see 5734, heat insulation to 4640 see 5758
Accessories to protection cover to 4640 see 5758, 5758-09, Fixing accessories to 4640 see 5738, 5738-01, 5739, 5740, 5740-10, 5754, access panel with door and built in box to 4640 see 5760, 5762, 5765
* AFM 34 flat gaskets must not be oiled and greased.

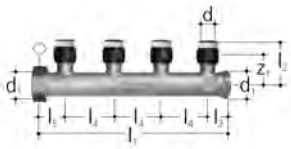
d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 G (inch)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	z1 (mm)	⬡
16	**4640.216**	**351 616 966**	15	0.320	1	110	50	24	55	31	31	37
20	**4640.220**	**351 620 966**	1	0.465	1	110	60	24	55	31	38	37



Distributor 3-way

Made of gunmetal, with loose nut, *flat gasket, male thread and plastic cone grip unions MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation.
Change over, cap and plug to distributor 4640 see 4705, 5430, 5433, Stop valve for distributor 4640 see 4771, Marking sleeve to distributor 4640 see 5734, Heat insulation to 4640 see 5758
Accessories to protection cover to 4640 see 5758, Fixing accessories to 4640 see 5758, 5754, Access panel with door and built in box to 4640 see 5760, 5762, 5765
* AFM 34 flat gaskets must not be oiled and greased.

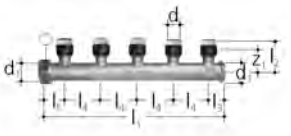
d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 G (inch)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	z1 (mm)	⬡
16	**4640.316**	**351 616 967**	1	0.515	1	165	50	24	55	31	31	37
20	**4640.320**	**351 620 967**	1	0.490	1	165	60	24	55	31	38	37



Distributor 4-way

Made of gunmetal, with loose nut, *flat gasket, male thread and plastic cone grip unions MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation.
Change over, cap and plug to distributor 4640 see 4705, 5430, 5433, Stop valve for distributor 4640 see 4771 Marking sleeve to distributor 4640 see 5734 Heat insulation to 4640 see 5758, Accessories to protection cover to 4640 see 5758, Fixing accessories to 4640 see 5738, 5739, 5740, 5754, Access panel with door and built in box to 4640 see 5760, 5762, 5765
* AFM 34 flat gaskets must not be oiled and greased.

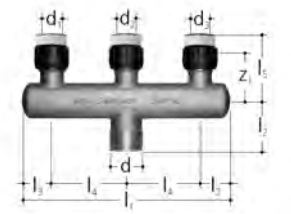
d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 G (inch)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	z1 (mm)	⬡
16	**4640.416**	**351 616 968**	1	0.590	1	220	50	24	55	31	31	37



Distributor 5-way

Made of gunmetal, with loose nut, *flat gasket, male thread and plastic cone grip unions MT (for CH max. 24 LU), for JRG Sanipex and JRG Sanipex MT pipes, only for surface installation or accessible concealed installation.
Change over, cap and plug to distributor 4640 see 4705, 5430, 5433, Stop valve for distributor 4640 see 4771, Marking sleeve to distributor 4640 see 5734, Heat insulation to 4640 see 5758, Accessories to protection cover to 4640 see 5758, Fixing accessories to 4640 see 5738, 5739, 5740, 5754, Access panel with door and built in box to 4640 see 5760, 5762, 5765
* AFM 34 flat gaskets must not be oiled and greased.

d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 G (inch)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	z1 (mm)	⬡
16	**4640.516**	**351 616 969**	10	0.700	1	275	50	24	55	31	31	37

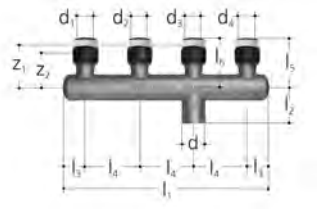


Concealed distributor 3-way

Made of gunmetal, with male thread, plastic cone grip unions MT (for CH max. 16 LU), for JRG Sanipex and JRG Sanipex MT pipes, for surface and concealed installation. Marking sleeve to distributor 4645 see 5734, heat insulation to 4645 see 5758. Accessories to protection cover to 4645 see 5758.001 - .004, 5758.009, fixing accessories to 4645 see 5738, 5739, 5740, 5754

d-d-d (mm)	d R (inch)	JRG Code	GF Code	SP	Weight (kg)
16 - 16 - 16	¾	**4645.050**	**351 616 970**	1	0.430

d-d-d (mm)	d R (inch)	d1 (mm)	d2 (mm)	d3 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	z1 (mm)
16 - 16 - 16	¾	16	16	16	155	37	23	55	50	31

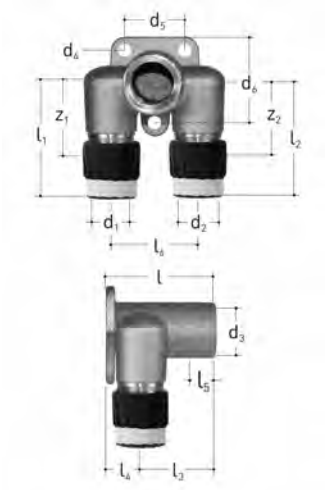


Concealed distributor 4-way

Made of gunmetal, with male thread, plastic cone grip unions MT (for CH max. 16 LU), for JRG Sanipex and JRG Sanipex MT pipes, for surface and concealed installation. Marking sleeve to distributor 4645 see 5734, Heat insulation to 4645 see 5758, Accessories to protection cover to 4645 see 5758.001 - .004, 5758.009 Fixing accessories to 4645 see 5738, 5738.001, 5739, 5740, 5740.010, 5754

d-d-d-d (mm)	d R (inch)	JRG Code	GF Code	SP	Weight (kg)
16 - 16 - 16 - 16	¾	**4645.100**	**351 616 971**	1	0.570
16 - 16 - 20 - 16	¾	**4645.200**	**351 620 971**	1	0.560

d-d-d-d (mm)	d R (inch)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	l6 (mm)	z1 (mm)	z2 (mm)
16 - 16 - 16 - 16	¾	16	16	16	16	210	37	23	55	50	50	31	31
16 - 16 - 20 - 16	¾	16	16	20	16	210	37	23	55	50	60	38	31



Fitting connector, double

Made of gunmetal, with female thread and plastic cone grip unions MT for installation in pre-installed systems and element use, for JRG Sanipex and JRG Sanipex MT pipes, sound insulation to 4611 see 5409.011, sealing gasket to 4611 see 5409.012

d-d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)
16 - 16	½	**4611.150**	**351 616 945**	5	0.270
20 - 16	½	**4611.160**	**351 620 949**	5	0.325
20 - 20	½	**4611.170**	**351 620 948**	5	0.290
16 - 16	½	**4611.180**	**351 616 946**	5	0.310
26 - 26	½	**4611.250**	**351 626 931**	2	0.440

d-d (mm)	GN (inch)	d1 (mm)	d2 (mm)	d3 Rp (inch)	d4 (mm)	d5 (mm)	d6 (mm)	l (mm)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	l6 (mm)	z1 (mm)
16 - 16	½	16	16	½	7	28	34	50	52	52	35	17	25	40	34
20 - 16	½	16	20	½	7	28	34	50	55	62	62	17	25	44	37
20 - 20	½	20	20	½	7	28	34	50	62	62	37	17	25	50	39
16 - 16	½	16	16	½	7	28	34	80	52	52	63	17	43	40	34
26 - 26	½	26	26	½	7	28	34	50	70	70	32	22	25	50	40

d-d (mm)	GN (inch)	z2 (mm)
16 - 16	½	34
20 - 16	½	39
20 - 20	½	39
16 - 16	½	34
26 - 26	½	40



Fitting connector, double

Made of gunmetal, with female thread and plastic cone grip unions MT, for JRG Sanipex and JRG Sanipex MT pipes, sound insulation to 4613 see 5409.010, distance piece for 4613 look 4610.090

d-d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)
16 - 16	½	**4613.100**	**351 616 947**	10	0.210
20 - 20	½	**4613.200**	**351 620 947**	10	0.260

d-d (mm)	GN (inch)	d1 (mm)	d3 Rp (inch)	d4 (mm)	d5 (mm)	l (mm)	l1 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	l6 (mm)	z (mm)
16 - 16	½	16	½	7	40	88	44	34	17	26	20	25
20 - 20	½	20	½	7	40	104	52	34	17	26	20	30

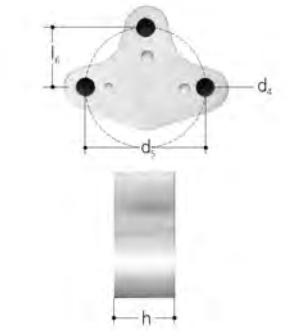


Fitting connector, single

Made of gunmetal, with female thread and plastic cone grip union MT, for surface mounting as for installation pre-installed systems and element use, 4610.135/.150/.180/.195/.235/.350 for JRG Sanipex and JRG Sanipex MT pipes, 4610.450 for JRG Sanipex MT pipes, sound insulation to 4610 see 5409.010, Sealing gasket to 4610 see 5409.012, Distance piece to 4610 see 4610.090

d (mm)	GN (inch)	JRG Code	GF Code	SP	Weight (kg)
16	½	**4610.135**	**351 616 993**	10	0.129
16	½	**4610.150**	**351 616 943**	10	0.200
16	½	**4610.180**	**351 616 944**	10	0.222
16	½	**4610.195**	**351 616 958**	10	0.260
20	½	**4610.235**	**351 620 990**	10	0.140
20	¾	**4610.350**	**351 620 991**	10	0.185
26	¾	**4610.450**	**351 626 992**	5	0.210

d (mm)	GN (inch)	d1 (mm)	d3 Rp (inch)	d4 (mm)	d5 (mm)	l (mm)	l1 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	l6 (mm)	z1 (mm)
16	½	16	½	7	40	35	49	17	17	15	20	31
16	½	16	½	7	40	50	52	35	17	25	20	34
16	½	16	½	7	40	80	52	63	17	43	20	34
16	½	16	½	7	40	95	52	78	17	58	20	34
20	½	20	½	7	40	35	54	16	18	15	20	30
20	¾	20	¾	7	40	50	53	32	18	17	20	29
26	¾	26	¾	7	40	50	62	28	22	17	20	31



Distance piece

Made of plastic, for fitting connector 4610, 4613, 5533, 5534, 762101018, 762101019, 762101022, 762101070, 762101071
Axis distance d16/d20 = 32 mm, d26 = 37 mm

h (mm)	JRG Code	GF Code	SP	Weight (kg)	d4 (mm)	d5 (mm)	l6 (mm)
20	**4610.090**	**351 515 002**	5	0.030	6.4	40	20

Valves



Distributor shut-off valve MT JRG LegioStop

Feed adapter for JRG Sanipex MT, outlet adapter to distributor, PN 10, with free of death traps top JRG LegioStop, made of bronze, grinded non-rising valve stem and seat made of stainless valve seat, EPDM seals, plastic handwheel and plastic cone grip union MT, for water up to 90°C. Shut-off valve top q.v. 5395.320 suitable for distributor and distributor accessories 4640, 5419-5424, 5455

d (mm)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
26	20	**4771.010**	**351 626 975**	1	0.420

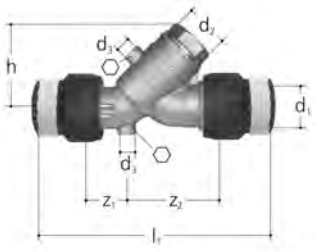
d (mm)	DN (mm)	d1 (mm)	d2 G (inch)	d4 (mm)	d5 G (inch)	h (mm)	l (mm)	z1 (mm)	z2 (mm)
26	20	26	¾	53	1	79	101	39	33



Plug for pipes

Made of yellow plastic, with male thread, not tight, as protection plug for pipes and plastic cone grip unions MT

d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	l (mm)
16	**4790.016**	**351 616 905**	10	0.003	32	23
20	**4790.020**	**351 620 905**	10	0.005	39	27
26	**4790.026**	**351 626 905**	10	0.010	51	32
32	**4790.032**	**351 632 905**	10	0.015	63	36
40	**4790.040**	**351 640 905**	10	0.025	78	43

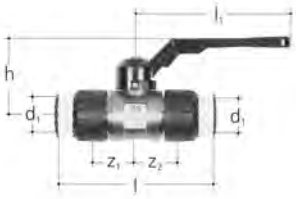


Return flow inhibitor, PN 10

- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Opening pressure: < 5 kPa (< 50 mbar)
- Connection: JRG Sanipex MT

d (mm)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
16	12	**1612.016**	**350 896 268**	1	0.314
20	15	**1612.020**	**350 896 269**	1	0.340
26	20	**1612.026**	**350 896 270**	1	0.513
32	25	**1612.032**	**350 896 271**	1	0.845
40	32	**1612.040**	**350 896 272**	1	1.243
50	40	**1612.050**	**350 896 294**	1	1.887
63	50	**1612.063**	**350 896 295**	1	2.870

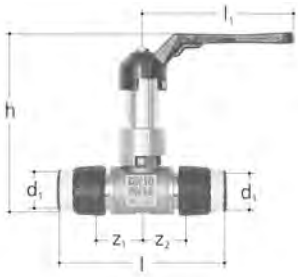
d (mm)	DN (mm)	d1 (mm)	d2 G (inch)	d3 Rp (inch)	h (mm)	l1 (mm)	z1 (mm)	z2 (mm)	⬡
16	12	16	½	¼	47	115	28	50	6
20	15	20	½	¼	47	122	27	51	6
26	20	26	¾	¼	56	148	27	63	6
32	25	32	1	¼	68	178	28	75	6
40	32	40	1 ¼	¼	80	218	37	92	6
50	40	50	1 ½	¼	90	256	46	108	6
63	50	63	2	¼	107	315	55	134	6



JRG Sanipex MT Ball valve, PN 10

- Material: gunmetal, plastic
- Temperature: max. -20°C / +95°C (water, compressed air, vacuum)
- Connection: cone grip unions

d (mm)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	h (mm)	l (mm)	l1 (mm)	z1 (mm)	z2 (mm)
16	12	**6041.016**	**351 616 310**	1	0.230	16	45	94	84	28	28
20	15	**6041.020**	**351 620 310**	1	0.308	20	49	109	84	31	31
26	20	**6041.026**	**351 626 310**	1	0.543	26	63	131	125	37	37
32	25	**6041.032**	**351 632 310**	1	0.933	32	71	158	125	42	42
40	32	**6041.040**	**351 640 310**	1	1.547	40	75	186	125	49	49



JRG Sanipex MT Ball valve with spindle extension, PN 10

- Material: gunmetal, stainless steel, PPSU
- Temperature: max. -20°C / +95°C (water, compressed air, vacuum)
- Connection: cone grip unions

d (mm)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	h (mm)	l (mm)	l1 (mm)	z1 (mm)	z2 (mm)
16	12	**6041.116**	**351 616 330**	1	0.264	16	99	130	84	28	28
20	15	**6041.120**	**351 620 330**	1	0.342	20	106	109	84	31	31
26	20	**6041.126**	**351 626 330**	1	0.593	26	125	131	125	37	37
32	25	**6041.132**	**351 632 330**	1	0.983	32	137	158	125	42	42
40	32	**6041.140**	**351 640 330**	1	1.597	40	148	186	125	49	49



Spindle extension

- Description: to 6041

d (mm)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	h (mm)
16 - 20	10 - 15	**6041.001**	**351 616 322**	10	0.034	59
26 - 40	25 - 32	**6041.002**	**351 626 322**	10	0.050	63



JRG LegioStop Y-type valve, PN 10

- Description: free of water pockets and maintenance free top, non rising handwheel with optical position indicator
- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Connection: JRG Sanipex MT
- Consisting of: grinded valve stem, valve seat

d (mm)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
16	12	**5222.016**	**350 895 732**	1	0.360
20	15	**5222.020**	**350 895 733**	1	0.390
26	20	**5222.026**	**350 895 734**	1	0.590
32	25	**5222.032**	**350 895 735**	1	0.950
40	32	**5222.040**	**350 895 736**	1	1.360
50	40	**5222.050**	**351 650 970**	1	2.160
63	50	**5222.063**	**351 663 970**	1	3.380

table continued on the next page



d (mm)	DN (mm)	d1 (mm)	d2 G (inch)	d3 Rp (inch)	d4 (mm)	h (mm)	l1 (mm)	l2 (mm)	z1 (mm)	z2 (mm)	⬡
16	12	16	½	¼	53	87	115	133	28	50	6
20	15	20	½	¼	53	87	122	137	27	51	6
26	20	26	¾	¼	53	105	148	160	27	63	6
32	25	32	1	¼	60	117	178	182	28	75	6
40	32	40	1 ¼	¼	70	130	212	212	37	92	6
50	40	50	1 ½	¼	90	175	256	245	46	108	6
63	50	63	2	¼	90	196	315	287	55	134	6



JRG LegioStop Y-type valve, PN 10 / 16

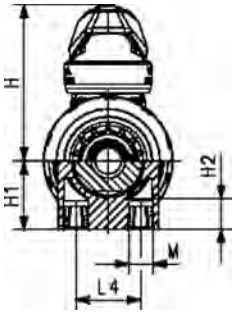
- Description: free of water pockets and maintenance free top, non rising handwheel with optical position indicator
- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Connection: push-in system sudoFIT
- Consisting of: grinded valve stem, valve seat

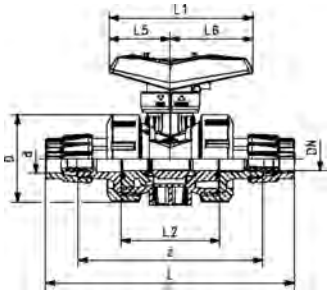
*__PN16__: stainless steel pipes (DVGW W541) __PN10__: copper pipes (DIN EN 1057)

d (mm)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
15	12	**5225.015**	**351 060 406**	1	0.354
18	15	**5225.018**	**351 060 416**	1	0.401
22	20	**5225.022**	**351 060 426**	1	0.550
28	25	**5225.028**	**351 060 436**	1	0.930
35	32	**5225.035**	**351 060 446**	1	1.370
42	40	**5225.042**	**351 060 456**	1	2.018
54	50	**5225.054**	**351 060 466**	1	2.990

d (mm)	DN (mm)	d1 (mm)	d2 G (inch)	d3 Rp (inch)	d4 (mm)	h (mm)	l1 (mm)	l2 (mm)	z1 (mm)	z2 (mm)	⬡
15	12	15	½	¼	53	87	82	37	8	26	6
18	15	18	½	¼	53	87	98	27	8	31	6
22	20	22	¾	¼	53	105	103	39	7	35	6
28	25	28	1	¼	60	117	136	31	9	44	6
35	32	35	1 ¼	¼	70	130	164	26	11	57	6
42	40	42	1 ½	¼	90	148	191	27	11	62	6
54	50	54	2	¼	90	169	231	21	14	79	6







PVC-C
Ball valve type 546 Sanipex MT

Model:

- Material: PVC-C
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

Rp (inch)	d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Code
⅜	16	10	16	70	**700 247 421**
½	20	15	16	185	**700 247 422**
¾	26	20	16	350	**700 247 423**
1	32	25	16	700	**700 247 424**
1 ¼	40	32	16	1000	**700 247 425**
1 ½	50	40	16	1600	**700 247 426**
2	63	50	16	3100	**700 247 427**

Rp (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	Z (mm)	L4 (mm)	L5 (mm)	L6 (mm)
⅜	50	57	27	146	77	56	108	25	32	45
½	50	57	27	160	77	56	112	25	32	45
¾	58	67	30	191	97	65	133	25	39	58
1	68	73	36	215	97	71	141	25	39	58
1 ¼	84	90	44	257	128	85	169	45	54	74
1 ½	97	97	51	297	128	89	197	45	54	74
2	124	116	64	363	152	101	237	45	66	87

Accessories



Cone grip union

- Material: plastic

d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	l1 (mm)
16	**1616.901**	**351 616 901**	5	0.006	27	25.5
20	**1620.901**	**351 620 901**	5	0.010	32	30.5
26	**1626.901**	**351 626 901**	5	0.025	42	39.5
32	**1632.901**	**351 632 901**	1	0.034	52	48.0
40	**1640.901**	**351 640 901**	1	0.070	64	59.0
50	**1650.901**	**351 650 901**	1	0.115	76	73.0
63	**1663.901**	**351 663 901**	1	0.220	95	92.0



O-Ring

- Description: to JRG Sanipex MT d16 - d40
- Material: EPDM

d (mm)	GF Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	s (mm)
16	**350 981 509**	0	0.000	15	12	1.5
20	**350 981 416**	0	0.000	19	16	1.8
26	**350 981 520**	0	0.000	25	21	2.0
32	**350 981 527**	0	0.000	32	28	2.2
40	**350 981 533**	0	0.001	40	35	2.5

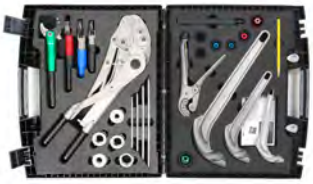


O-Ring

- Description: to JRG Sanipex MT d20 - d40, 4730
- Material: EPDM

d (mm)	GF Code	SP	d1 (mm)	d2 (mm)	s (mm)
20	**350 981 515**	0	19	17	1.3
26	**350 981 521**	0	25	22	1.6
32	**350 981 528**	0	33	29	2.0
40	**350 981 535**	0	41	37	2.4

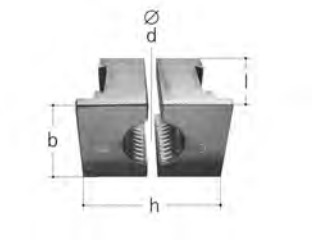
Tools



Fitter's toolkit complete d16-32

- Material: plastic
- Consisting of: Expanding mandrel ML pipes: **4804.116** d16; **4804.120** d20, **4804.126** d26, **4804.132** d32 Expanding mandrel PEX pipes: **4804.216** d16, **4804.220** d20, **4804.225** d25 Clamping jaws ML / PEX pipes: **4805.016** d16, **4805.020** d20 Clamping jaws ML pipes: **4805.026** d26, **4805.032** d32 Clamping jaws PEX pipes: **4805.125** d25 /// **4805.000** Expanding pliers, **4806.016** Hand bending template d16, **4806.026** Hand bending template d20, **4806.026** Hand bending template d26, **4832.016** Ratchet torque wrench d16, **4832.020** Ratchet torque wrench d20, **4832.026** Ratchet torque wrench d26, **4832.032** Ratchet torque wrench d32, **4834.016** Counter key d16, **4834.020** Counter key d20, **4834.026** Counter key d26, **4834.032** Counter key d32, **4836.000** Pipe cutter d16-d40, **4837.000** Multi-purpose cutter d16+d20, **4838.000** Marking pen yellow

d-d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)
16 - 32	**4802.000**	**351 600 098**	1	9.830	500	125	420



Clamping jaws

- Material: steel

d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	h (mm)	l (mm)
16	**4804.016**	**351 600 494**	1	0.195	30	45	35
20	**4804.020**	**351 600 495**	1	0.160	30	45	35
26	**4804.026**	**351 600 489**	1	0.160	30	45	35



Expanding mandrel for JRG Sanipex MT pipes

- Material: aluminium, steel

d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	l (mm)
16	**4804.116**	**351 600 496**	1	0.030	10	23	35
20	**4804.120**	**351 600 497**	1	0.032	14	23	34
26	**4804.126**	**351 600 488**	1	0.036	18	23	32
32	**4804.132**	**351 600 547**	1	0.017	32	33	34



Expanding mandrel for JRG Sanipex pipe

- Material: aluminium, steel

d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	l (mm)
16	**4804.216**	**351 600 498**	1	0.025	11	23	35
20	**4804.220**	**351 600 499**	1	0.027	14	23	33
25	**4804.225**	**351 600 546**	1	0.035	25	32	30



Expanding pliers

d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	l (mm)
16-20-25-26-32	**4805.000**	**351 600 505**	1	2.190	150	470



Clamping jaws for JRG Sanipex MT pipes

- Description: to 4805
- Material: steel

d (mm)	JRG Code	GF Code	SP	Weight (kg)	h (mm)	l (mm)
16	**4805.016**	**351 600 560**	1	0.320	46	35
20	**4805.020**	**351 600 569**	1	0.290	46	35
26	**4805.026**	**351 600 573**	1	0.250	46	35
32	**4805.032**	**351 600 575**	1	0.085	46	35



Clamping jaws for JRG Sanipex pipes

- Description: to 4805
- Material: steel

d (mm)	JRG Code	GF Code	SP	Weight (kg)	h (mm)	l (mm)
25	**4805.125**	**351 600 571**	1	0.255	46	35



Hand bending template

- Material: aluminium

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)
16	**4806.016**	**351 616 907**	1	0.200	217
20	**4806.020**	**351 620 907**	1	0.320	270
26	**4806.026**	**351 626 907**	1	0.775	415



Battery toolkit d16-40

- Material: plastic
- Consisting of: **4809.000** Battery tool MAPLSONOV, **4809.005** Makita charger, **4809.010** Makita battery, **4809.116** Expansion head d16, **4809.120** Expansion head d20, **4809.126** Expansion head d26, **4809.132** Expansion head d32, **4809.140** Expansion head d40, **4832.016** Ratchet torque wrench d16, **4832.020** Ratchet torque wrench d20, **4832.026** Ratchettorque wrench d26, **4832.032** Ratchet torque wrench d32, **4832.040** Ratchet torque wrench d40, **4834.016** Counter spanner d16, **4834.020** Counter spanner d20, **4834.026** Counter spanner d26, **4834.032** Counter spanner d32, **4834.040** Counter spanner d40, **4837.000** Multi-purpose cutter d16/d20, **4836.000** Pipe cutter d16-d40, **4838.000** Marking pen

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)
16 - 40	**4808.000**	**351 600 908**	1	16.000	575	206	472



Battery toolkit d16-26

- Material: plastic
- Consisting of: **4809.000** Battery tool MAPLSONOV, **4809.005** Makita charger, **4809.010** Makita battery, **4809.116** Expansion head d16, **4809.120** Expansion head d20, **4809.126** Expansion head d26, **4832.016** Ratchet torque wrench d16, **4832.020** Ratchet torque wrench d20, **4832.026** Ratchet torque wrench d26, **4834.016** Counter spanner d16, **4834.020** Counter spanner d20, **4834.026** Counter spanner d26, **4837.000** Multi-purpose cutter d16/d20, **4836.000** Pipe cutter d16-d40, **4838.000** Marking pen

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)
16 - 26	**4808.050**	**351 600 909**	1	11.500	575	206	472



Battery toolkit d32+40

- Material: plastic
- Consisting of: **4809.000** Battery tool MAPLSONOV, **4809.005** Makita charger, **4809.010** Makita battery, **4809.132** Expansion head d32, **4809.140** Expansion head d40, **4832.032** Ratchet torque wrench d32, **4832.040** Ratchet torque wrench d40, **4834.032** Counter spanner d32, **4834.040** Counter spanner d40, **4836.000** Pipe cutter d16-d40, **4838.000** Marking pen

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)
32 - 40	**4808.150**	**351 600 910**	1	11.200	575	206	472



Battery tool

- Material: aluminium, plastic

d (mm)	JRG Code	SP	GF Code	Weight (kg)	l (mm)	b (mm)	h (mm)
16 - 40	**4809.000**	1	**351 600 809**	3.080	320	75	150



Expansion head

- Material: aluminium, steel, plastic

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)
16	**4809.116**	**351 600 804**	1	1.200	137	95	121
20	**4809.120**	**351 600 805**	1	1.200	137	95	121
26	**4809.126**	**351 600 806**	1	1.200	137	95	121
32	**4809.132**	**351 600 807**	1	1.200	137	95	121
40	**4809.140**	**351 600 808**	1	1.400	174	108	124



Bending template set d16+20

- Material: plastic

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)
16 / 20	**4807.100**	**351 600 092**	1	2.790	390	102	310



Hydraulic unit

- Description: to expanding- and bending tool d16 - 63 / 230 V, 650 Watt, 50 Hz
- Consisting of: Hydraulic unit, battery, charger, bag

Plug	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)
EU + CH	**4812.000**	**351 600 912**	1	9.700	290	186	236
USA + CAN	**4812.050**	**351 600 914**	1	9.700	290	186	236



Fitter's toolkit d26-40

- Material: plastic
- Consisting of: **4828.001** Fitter's toolkit, **4830.026** Expanding unit d26, **4832.032** Expanding unit d32, **4830.040** Expanding unit d40, **4832.026** Ratchet torque wrench d26, **4832.032** Ratchet torque wrench d32, **4832.040** Ratchet torque wrench d40, **4834.026** Counter key d26, **4834.032** Counter key d32, **4834.040** Counter key d40, **4836.000** Pipe cutter

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)
26 - 40	**4815.100**	**351 600 094**	1	15.610	575	206	472



Fitter's toolkit d32+40

- Material: plastic
- Consisting of: **4828.001** Fitter's toolkit, **4832.032** Expanding unit d32, **4830.040** Expanding unit d40, **4832.032** Ratchet torque wrench d32, **4832.040** Ratchet torque wrench d40, **4834.032** Counter key d32, **4834.040** Counter key d40, **4836.000** Pipe cutter

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)
32 - 40	**4815.150**	**351 600 086**	1	12.770	575	206	472



Fitter's toolkit d50+63

- Material: plastic
- Consisting of: **4831.000** Operating cylinder, **4831.050** Clamp unit d50, **4831.063** Clamp unit d63, **4831.350** Expanding mandrel d50, **4831.363** Expanding mandrel d63, **4832.050** Ratchet torque wrench d50, **4832.063** Ratchet torque wrench d63, **4834.050** Counter key d50, **4834.063** Counter key d63, **4836.100** Pipe cutter d50+63

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)
50 - 63	**4820.100**	**351 600 007**	1	14.550	575	206	472



Fitter's toolkit empty for expanding pliers

- Description: to 4802
- Material: plastic

d-d-d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)
16 - 26	**4828.000**	**351 600 041**	1	2.300	500	125	420
16 - 32	**4828.005**	**351 600 006**	1	2.200	500	125	420



Fitter's toolkit empty d16-40

- Description: to 4815
- Material: plastic

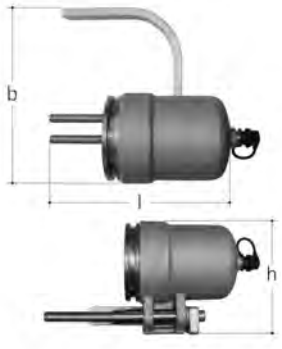
d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	b1 (mm)	l (mm)
16 - 40	**4828.001**	**351 600 002**	1	4.100	423	170	574



Expanding unit

- Description: to 4812
- Material: aluminium, steel, plastic

d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	l (mm)
16	**4830.016**	**351 616 008**	0	1.400	99	170
20	**4830.020**	**351 620 008**	0	1.900	99	184
26	**4830.026**	**351 626 008**	1	2.250	99	196
32	**4830.032**	**351 632 008**	1	2.550	99	201
40	**4830.040**	**351 640 008**	1	3.650	107	222



Operating cylinder d50+63

- Description: to 4831.050 / .063
- Material: aluminium, steel

d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	h (mm)	l (mm)
50 - 63	**4831.000**	**351 600 628**	1	2.370	201	130	244



Expanding mandrel d50+63

- Description: to 4831.000
- Material: aluminium

d (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	l (mm)	l1 (mm)
50	**4831.350**	**351 650 108**	1	0.100	40	52	40	11
63	**4831.363**	**351 663 108**	1	0.200	52	65	37	11



Clamp unit complete d50+63

- Description: to 4831.000
- Material: aluminium, steel

d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	h (mm)	l (mm)
50	**4831.050**	**351 650 131**	1	2.930	243	160	87
63	**4831.063**	**351 663 131**	1	2.200	243	160	87



Ratchet torque wrench d16-40

- Material: aluminium, steel

d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	l (mm)
16	**4832.016**	**351 616 220**	1	0.135	34	157
20	**4832.020**	**351 620 220**	1	0.100	41	174
26	**4832.026**	**351 626 009**	1	0.350	51	224
32	**4832.032**	**351 632 009**	1	0.450	61	271
40	**4832.040**	**351 640 009**	1	0.660	76	326



Ratchet torque wrench d50+63

- Material: aluminium, steel

d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	l (mm)
50	**4832.050**	**351 650 009**	1	0.500	102	379
63	**4832.063**	**351 663 009**	1	0.850	130	442



Counter key d16-40

- Material: steel

d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	l (mm)
16	**4834.016**	**351 616 010**	1	0.050	27	157
20	**4834.020**	**351 620 010**	1	0.100	33	174
26	**4834.026**	**351 626 010**	1	0.200	42	224
32	**4834.032**	**351 632 010**	1	0.300	52	271
40	**4834.040**	**351 640 010**	1	0.550	65	326



Counter key d50+63

- Material: aluminium

d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	l (mm)
50	**4834.050**	**351 650 210**	1	0.300	102	405
63	**4834.063**	**351 663 210**	1	0.500	127	453



Pipe cutter d16-40

- Material: aluminium
- Consisting of: cutting wheel (355578110)

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)
16 - 40	**4836.000**	**351 600 310**	1	0.640	251



Pipe cutter d50+63

- Material: aluminium, steel
- Consisting of: cutting wheel (351650851)

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)
50 - 63	**4836.050**	**351 650 852**	1	0.950	240



Multi-purpose cutter d16+20

- Material: plastic

d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	l (mm)
16 - 20	**4837.000**	**355 632 425**	1	0.150	45	200



Marking pen, yellow

Color	JRG Code	GF Code	SP	Weight (kg)
yellow	**4838.000**	**351 600 027**	5	0.008



Hydraulic oil

- Description: Spare bottle 0.5l to 4810/4812

d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)
65	**4839.000**	**351 600 072**	1	0.478	200



Bending toolkit d26-40

- Material: plastic, chromed
- Consisting of: 4583.000 hydraulic cylinder, 4854.000 baseplate, 4855.026/.032/.040 bending templates, bending rolls d26-40, 4838.000 marking pen yellow, plug-in bending scale, adapter nippel for bending templates

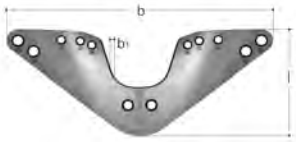
d (mm)	JRG Code	GF Code	SP	Weight (kg)	l (mm)	b (mm)	h (mm)
26 - 40	**4851.050**	**351 600 004**	1	15.880	665	250	562



Bending toolkit d50+63

- Material: plastic, chromed
- Consisting of: 4854.050 bending templates d50, 4854.063 bending templates d63, bending rolls d50+63

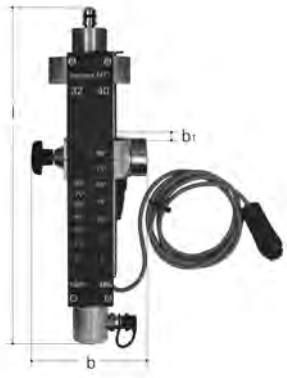
d (mm)	JRG Code	SP	Weight (kg)	GF Code	l (mm)	b (mm)	h (mm)
50 + 63	**4851.100**	1	7.800	**352 920 372**	665	250	562



Base plate d26-63

- Material: aluminium

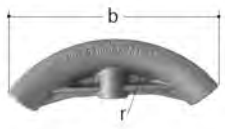
d (mm)	JRG Code	SP	Weight (kg)	GF Code	b (mm)	b1 (mm)	l (mm)
26 - 63	**4854.000**	1	5.000	**352 920 911**	628	30	273



Hydraulic cylinder

- Material: aluminium
- With scale to adjust bending angle
- Suitable to: 4854.000 base plate, 4855 bending templates d26-63

d (mm)	JRG Code	GF Code	Weight (kg)	b (mm)	b1 (mm)	l (mm)
26 - 63	**4853.000**	**352 920 811**	4.130	130	100	360



Bending template

- Material: aluminium
- Suitable to: 4810 hydraulic unit, 4852 / 4853 bending tools

d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	r (mm)
16	**4855.016**	**351 616 911**	1	0.100	90	48
20	**4855.020**	**351 620 911**	1	0.100	112	60
26	**4855.026**	**351 626 911**	1	0.165	146	78
32	**4855.032**	**351 632 911**	1	0.260	180	96
40	**4855.040**	**351 640 911**	1	0.400	225	120
50	**4855.050**	**352 950 911**	1	0.990	332	175
63	**4855.063**	**352 963 911**	1	1.310	364	189



Bending toolkit empty

- Suitable to: 4851
- Material: plastic

d (mm)	JRG Code	GF Code	SP	Weight (kg)	b (mm)	b1 (mm)	l (mm)
16 - 40	**4858.001**	**351 600 011**	1	2.200	345	110	520

JRG Valves



Technical data

Materials
Gunmetal, EPDM gaskets

Dimensions range
DN15 – DN100

Jointing technology
Threads, flanges and direct system connections

Operating pressure
Up to 25 bar

Operating temperature
0°C to 90°C

Your benefits

- **Free of water pockets**
- **Corrosion resistant gunmetal**
- **Extensive range of valve types**
- **Excellent long time performance**
- **Hygienic design**

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Safety valves



JRGARANT Safety valve

- Material: gunmetal
- Factory setting: 600 kPa (6 bar)
- Connection: inlet male thread, outlet female thread

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
½	15	**1025.240**	**350 599 481**	1	0.325
¾	20	**1025.320**	**350 599 581**	1	0.370
1	25	**1025.400**	**350 599 610**	1	0.620

GN (inch)	DN (mm)	d1 R (inch)	d2 Rp (inch)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	PN (bar)	Temperature (°C)	z (mm)
½	15	½	½	28	60	38	47	10	90	15
¾	20	¾	¾	32	62	41	48	10	90	17
1	25	1	1	39	65	46	49	10	90	22



JRGARANT Safety valve

- Material: gunmetal
- Factory setting: available between 100 - 1000 kPa (1 - 10 bar)
- Connection: inlet male thread, outlet female thread

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
½	15	**1028.240**	**350 599 944**	1	0.400
¾	20	**1028.320**	**350 599 945**	1	0.684
1	25	**1028.400**	**350 599 946**	1	0.684

GN (inch)	DN (mm)	d1 R (inch)	d2 Rp (inch)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	PN (bar)	Temperature (°C)	z (mm)
½	15	½	½	28	81	38	38	10	90	15
¾	20	¾	¾	32	81	41	68	10	90	17
1	25	1	1	39	85	46	69	10	90	22

Pressure reducing valves



JRGURED pressure reducing valve, PN 16

- Temperature: max. 70°C
- Material: gunmetal, stainless steel, EPDM
- Factory setting: 400 kPa (4 bar)
- Secondary pressure: 150 - 600 kPa (1.5 - 6 bar)
- *Special version on request: 650 - 1000 kPa (6.5 - 10 bar)
- Connection: flange, manometer

DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	○
65	**1140.065**	**350 542 301**	1	32.000	65	187	128	340	290	145	4
80	**1140.080**	**350 542 401**	1	40.000	80	217	144	405	310	155	8
100	**1140.100**	**350 542 501**	1	55.000	100	257	166	465	350	175	8



JRGURED pressure reducing valve, PN 16

- Temperature: max. 70°C
- Material: gunmetal, stainless steel, EPDM
- Factory setting: 400 kPa (4 bar)
- Secondary pressure: 150 - 600 kPa (1.5 - 6 bar)
- *Special version on request: 650 - 1000 kPa (6.5 - 10 bar)
- Connection: flange, manometer

DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	○
65	**1140.065**	**350 542 301**	1	32.000	65	187	128	340	290	145	4
80	**1140.080**	**350 542 401**	1	40.000	80	217	144	405	310	155	8
100	**1140.100**	**350 542 501**	1	55.000	100	257	166	465	350	175	8



JRGURED pressure reducing valve, PN 25

- Temperature: max. 30°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 400 kPa (4 bar)
- Secondary pressure: 200 - 600 kPa (2 - 6 bar)
- Connection: manometer
- Consisting of: unions

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
½	15	**1300.240**	**350 731 001**	1	0.742
¾	20	**1300.320**	**350 731 101**	1	0.970
1	25	**1300.400**	**350 731 201**	1	1.600
1 ¼	32	**1300.480**	**350 731 301**	1	2.423
1 ½	40	**1300.560**	**350 731 401**	1	4.050
2	50	**1300.640**	**350 731 501**	1	6.425
2 ½	65	**1300.720**	**350 734 601**	1	7.300

GN (inch)	DN (mm)	d1 R (inch)	d2 G (inch)	d3 Rp (inch)	d4 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	z (mm)	⬡
½	15	½	¾	⅛	54	34	79	130	25	40	5
¾	20	¾	1	⅛	60	42	86	142	29	43	5
1	25	1	1 ¼	¼	72	52	110	167	34	50	6
1 ¼	32	1 ¼	1 ½	¼	80	64	121	196	38	60	6
1 ½	40	1 ½	1 ¾	¼	96	80	157	222	39	73	8
2	50	2	2 ⅜	¼	105	98	172	268	47	88	8
2 ½	65	2 ½	3	¼	105	98	172	292	56	90	8



JRGURED pressure reducing valve, PN 25

- Temperature: max. 30°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 400 kPa (4 bar)
- Secondary pressure: 200 - 600 kPa (2 - 6 bar)
- Connection: manometer

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
½	15	**1303.015**	**350 712 301**	1	0.620
¾	20	**1303.020**	**350 712 401**	1	0.770
1	25	**1303.025**	**350 712 501**	1	1.340
1 ¼	32	**1303.032**	**350 712 601**	1	1.800
1 ½	40	**1303.040**	**350 712 701**	1	3.400
2	50	**1303.050**	**350 712 801**	1	4.900
2 ½	65	**1303.065**	**350 734 701**	1	5.200

GN (inch)	DN (mm)	d2 G (inch)	d3 Rp (inch)	d4 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	z (mm)	⬡
½	15	¾	⅛	54	34	79	80	40	5
¾	20	1	⅛	60	42	86	85	43	5
1	25	1 ¼	¼	72	52	110	100	50	6
1 ¼	32	1 ½	¼	80	64	121	120	60	6
1 ½	40	1 ¾	¼	96	80	157	145	73	8
2	50	2 ⅜	¼	105	98	172	175	88	8
2 ½	65	3	¼	105	98	172	180	90	8

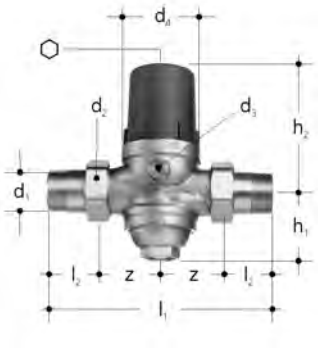


JRGURED pressure reducing valve, PN 25

- Temperature: max. 70°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 400 kPa (4 bar)
- Secondary pressure: 200 - 600 kPa (2 - 6 bar)
- Connection: manometer
- Consisting of: unions

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
½	15	**1310.240**	**350 731 601**	1	0.780
¾	20	**1310.320**	**350 731 701**	1	1.040
1	25	**1310.400**	**350 731 801**	1	1.800
1 ¼	32	**1310.480**	**350 731 901**	1	2.640
1 ½	40	**1310.560**	**350 732 001**	1	4.500
2	50	**1310.640**	**350 732 101**	1	6.878
2 ½	65	**1310.720**	**350 734 801**	1	7.960

GN (inch)	DN (mm)	d1 R (inch)	d2 G (inch)	d3 Rp (inch)	d4 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	z (mm)	⬡
½	15	½	¾	⅛	52	29	79	130	25	40	5
¾	20	¾	1	⅛	58	36	86	142	29	43	5
1	25	1	1 ¼	¼	70	52	110	167	34	50	6
1 ¼	32	1 ¼	1 ½	¼	77	64	121	196	38	60	6
1 ½	40	1 ½	1 ¾	¼	94	80	157	222	39	73	8
2	50	2	2 ⅜	¼	103	98	172	268	47	88	8
2 ½	65	2 ½	3	¼	103	98	172	292	56	90	8



JRGURED pressure reducing valve, PN 25

- Temperature: max. 70°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 200 kPa (2 bar)
- Secondary pressure: 50 - 200 kPa (0.5 - 2 bar)
- Connection: manometer
- Consisting of: unions

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
½	15	**1320.240**	**350 734 001**	1	0.760
¾	20	**1320.320**	**350 734 101**	1	0.940
1	25	**1320.400**	**350 734 201**	1	1.730
1 ¼	32	**1320.480**	**350 734 301**	1	2.540
1 ½	40	**1320.560**	**350 734 401**	1	4.290
2	50	**1320.640**	**350 734 501**	1	6.530
2 ½	65	**1320.720**	**350 735 001**	1	7.690

GN (inch)	DN (mm)	d1 R (inch)	d2 G (inch)	d3 Rp (inch)	d4 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	z (mm)	⬡
½	15	½	¾	⅛	52	29	79	130	25	40	5
¾	20	¾	1	⅛	58	36	86	142	29	43	5
1	25	1	1 ¼	¼	70	52	110	167	34	50	6
1 ¼	32	1 ¼	1 ½	¼	77	64	121	196	38	60	6
1 ½	40	1 ½	1 ¾	¼	94	80	157	222	39	73	8
2	50	2	2 ⅜	¼	103	98	172	268	47	88	8
2 ½	65	2 ½	3	¼	103	98	172	292	56	90	8



JRGURED pressure reducing valve, PN 25

- Temperature: max. 70°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 600 kPa (6 bar)
- Secondary pressure: 600 - 1000 kPa (6 - 10 bar)
- Connection: manometer
- Consisting of: unions

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
½	15	**1330.240**	**350 732 801**	1	0.730
¾	20	**1330.320**	**350 732 901**	1	1.020
1	25	**1330.400**	**350 733 001**	1	1.870
1 ¼	32	**1330.480**	**350 733 101**	1	2.700
1 ½	40	**1330.560**	**350 733 201**	1	4.590
2	50	**1330.640**	**350 733 301**	1	7.050
2 ½	65	**1330.720**	**350 735 201**	1	8.320

GN (inch)	DN (mm)	d1 R (inch)	d2 G (inch)	d3 Rp (inch)	d4 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	z (mm)	⬡
½	15	½	¾	⅛	52	29	79	130	25	40	5
¾	20	¾	1	⅛	58	36	86	142	29	43	5
1	25	1	1 ¼	¼	70	52	110	167	34	50	6
1 ¼	32	1 ¼	1 ½	¼	77	64	121	196	38	60	6
1 ½	40	1 ½	1 ¾	¼	94	80	157	222	39	73	8
2	50	2	2 ⅜	¼	103	98	172	268	47	88	8
2 ½	65	2 ½	3	¼	103	98	172	292	56	90	8



JRGURED pressure reducing valve, PN 25

- Temperature: max. 30°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Factory setting: 400 kPa (4 bar)
- Secondary pressure: 200 - 600 kPa (2 - 6 bar)
- Connection: manometer

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
½	15	**1303.015**	**350 712 301**	1	0.620
¾	20	**1303.020**	**350 712 401**	1	0.770
1	25	**1303.025**	**350 712 501**	1	1.340
1 ¼	32	**1303.032**	**350 712 601**	1	1.800
1 ½	40	**1303.040**	**350 712 701**	1	3.400
2	50	**1303.050**	**350 712 801**	1	4.900
2 ½	65	**1303.065**	**350 734 701**	1	5.200

GN (inch)	DN (mm)	d2 G (inch)	d3 Rp (inch)	d4 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	z (mm)	⬡
½	15	¾	⅛	54	34	79	80	40	5
¾	20	1	⅛	60	42	86	85	43	5
1	25	1 ¼	¼	72	52	110	100	50	6
1 ¼	32	1 ½	¼	80	64	121	120	60	6
1 ½	40	1 ¾	¼	96	80	157	145	73	8
2	50	2 ⅜	¼	105	98	172	175	88	8
2 ½	65	3	¼	105	98	172	180	90	8

Non-return valves



Non-return valve, PN 16

- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Opening pressure: < 5 kPa (< 50 mbar)
- Connection: female thread

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
½	15	**1610.240**	**350 896 257**	1	0.326
¾	20	**1610.320**	**350 896 258**	1	0.390
1	25	**1610.400**	**350 896 259**	1	0.814
1 ¼	32	**1610.480**	**350 896 260**	1	1.090
1 ½	40	**1610.560**	**350 896 261**	1	1.200
2	50	**1610.640**	**350 896 262**	1	2.040

GN (inch)	DN (mm)	d1 Rp (inch)	d2 G (inch)	d3 Rp (inch)	h (mm)	l (mm)	l2 (mm)	z1 (mm)	z2 (mm)	⬡
½	15	½	½	¼	42	65	1	10	27	6
¾	20	¾	¾	¼	51	75	3	12	33	6
1	25	1	1	¼	61	90	3	15	40	6
1 ¼	32	1 ¼	1 ¼	¼	80	110	9	19	52	6
1 ½	40	1 ½	1 ½	¼	91	120	10	20	61	6
2	50	2	2	¼	107	150	5	23	77	6



Non-return valve, PN 16

- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Opening pressure: < 5 kPa (< 50 mbar)
- Connection: female thread

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
2 ½	65	**1610.720**	**350 898 300**	1	3.310

GN (inch)	DN (mm)	d1 Rp (inch)	d2 G (inch)	d3 Rp (inch)	h (mm)	l1 (mm)	z1 (mm)	z2 (mm)	⬡
2 ½	65	2 ½	2 ½	¼	116	180	22	98	6



Non-return valve, PN 16

- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Opening pressure: < 5 kPa (< 50 mbar)
- Connection: male thread

DN (mm)	JRG Code	GF Code	SP	Weight (kg)
15	**1611.015**	**350 896 244**	1	0.311
20	**1611.020**	**350 896 245**	1	0.460
25	**1611.025**	**350 896 246**	1	0.749
32	**1611.032**	**350 896 247**	1	0.860
40	**1611.040**	**350 896 248**	1	1.257
50	**1611.050**	**350 896 249**	1	1.860

DN (mm)	d1 G (inch)	d2 G (inch)	d3 Rp (inch)	h (mm)	l (mm)	l3 (mm)	l4 (mm)	l5 (mm)	⬡
15	¾	½	¼	42	75	24	52	6	6
20	1	¾	¼	51	87	24	63	7	6
25	1 ¼	1	¼	61	99	24	75	8	6
32	1 ½	1 ¼	¼	80	118	30	89	9	6
40	1 ¾	1 ½	¼	91	130	31	100	10	6
50	2 ⅜	2	¼	107	155	35	120	11	6



Non-return valve, PN 16

- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Opening pressure: < 5 kPa (< 50 mbar)
- Connection: male thread

DN (mm)	JRG Code	GF Code	SP	Weight (kg)
65	**1611.065**	**350 898 302**	1	3.120

DN (mm)	d1 G (inch)	d2 G (inch)	d3 Rp (inch)	h (mm)	l1 (mm)	l3 (mm)	l4 (mm)	l5 (mm)	⬡
65	3	2 ½	¼	116	190	43	147	14.5	6



Non-return valve, PN 16

- Temperature: max. 65°C
- Material: grey cast iron (plastic coated), gunmetal, EPDM
- Connection: flange

* as long as stock last

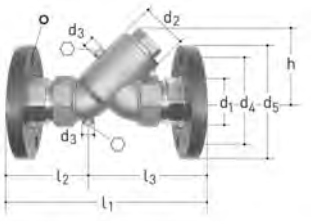
	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d2 (mm)	d3 G (inch)	l1 (mm)	○
*	50	**1650.050**	**355 635 558**	1	11.000	165	¼	200	4
*	65	**1650.065**	**355 635 559**	1	17.000	185	½	240	4
	80	**1650.080**	**355 635 560**	1	21.000	200	½	260	8
	100	**1650.100**	**355 635 561**	1	29.000	220	½	300	8
*	125	**1650.125**	**355 635 562**	1	37.000	250	¾	350	8
*	150	**1650.150**	**355 635 563**	1	62.000	285	¾	400	8



Non-return valve, PN 16

- Temperature: max. 200°C (water, oil, steam)
- Material: gunmetal
- Connection: female thread (metal-to-metal sealing)

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 Rp (inch)	h1 (mm)	l (mm)	z (mm)
½	15	**1672.240**	**350 275 006**	1	0.350	½	39	60	20
¾	20	**1672.320**	**350 275 103**	1	0.500	¾	40	72	24
1	25	**1672.400**	**350 275 106**	1	0.800	1	45	90	28
1 ¼	32	**1672.480**	**350 275 203**	1	1.300	1 ¼	50	100	34

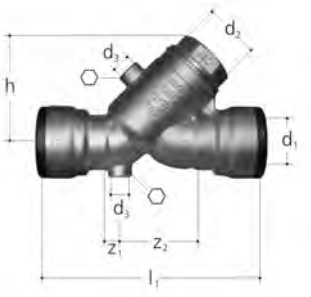


Non-return valve, PN 16

- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Opening pressure: < 5 kPa (< 50 mbar)
- Connection: flange

DN (mm)	JRG Code	GF Code	SP	Weight (kg)
40	**1614.040**	**350 898 304**	1	4.230
50	**1614.050**	**350 898 305**	1	6.650
65	**1614.065**	**350 898 306**	1	9.450

DN (mm)	d1 (mm)	d2 G (inch)	d3 Rp (inch)	d4 (mm)	d5 (mm)	h (mm)	l1 (mm)	l2 (mm)	l3 (mm)	⬡	○
40	40	1 ½	¼	110	150	91	229	94	135	6	4x18
50	50	2	¼	125	165	107	262	104	158	6	4x18
65	65	2 ½	¼	145	185	116	296	110	187	6	4x18



Non-return valve, PN 10 / 16

- Temperature: max. 90°C
- Material: gunmetal, stainless steel, EPDM, plastic
- Opening pressure: < 5 kPa (< 50 mbar)
- Connection: push-in system sudoFIT

*__PN16__: stainless steel pipes (DVGW W541) __PN10__: copper pipes (DIN EN 1057)

d (mm)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
15	12	**1615.015**	**351 060 404**	1	0.313
18	15	**1615.018**	**351 060 414**	1	0.360
22	20	**1615.022**	**351 060 424**	1	0.474
28	25	**1615.028**	**351 060 434**	1	0.710
35	32	**1615.035**	**351 060 444**	1	1.070
42	40	**1615.042**	**351 060 454**	1	1.655
54	50	**1615.054**	**351 060 464**	1	2.675

d (mm)	DN (mm)	d1 (mm)	d2 G (inch)	d3 Rp (inch)	h (mm)	l1 (mm)	z1 (mm)	z2 (mm)	⬡
15	12	15	½	¼	47	82	8	26	6
18	15	18	½	¼	47	98	8	31	6
22	20	22	¾	¼	56	103	7	35	6
28	25	28	1	¼	68	136	9	44	6
35	32	35	1 ¼	¼	80	164	11	57	6
42	40	42	1 ½	¼	91	191	11	62	6
54	50	54	2	¼	107	231	14	79	6



Swing check valve, PN 16

- Temperature: max. 90°C
- Material: gunmetal, EPDM
- Tightness: from 10 kPa (100 mbar) counter pressure
- Connection: female thread

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 Rp (inch)	d2 Rp (inch)	d3 Rp (inch)	h1 (mm)	l (mm)	z (mm)
½	15	**1682.240**	**350 850 001**	1	0.350	½	¼	⅜	40	65	20
¾	20	**1682.320**	**350 850 002**	1	0.500	¾	¼	⅜	47	75	23
1	25	**1682.400**	**350 850 003**	1	0.650	1	¼	⅜	50	90	28
1 ¼	32	**1682.480**	**350 850 004**	1	1.000	1 ¼	¼	⅜	58	105	34
1 ½	40	**1682.560**	**350 850 005**	1	1.420	1 ½	¼	⅜	65	120	41
2	50	**1682.640**	**350 850 006**	1	2.080	2	¼	⅜	78	140	46



Swing check valve, PN 10

- Description: for circulation with gravity
- Temperature: max. 90°C
- Material: gunmetal, brass
- Connection: male thread

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 R (inch)	d2 G (inch)	h1 (mm)	l (mm)	l1 (mm)	l2 (mm)
½	15	**1684.240**	**350 275 401**	1	0.500	½	¾	85	120	30	30
¾	20	**1684.320**	**350 275 404**	1	0.915	¾	1	105	150	40	35
1	25	**1684.400**	**350 275 501**	1	1.810	1	1 ¼	130	163	48	34

Accessories



Union

- Description: to 1684, 3400
- Material: brass
- Connection: female thread, male thread

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 R (inch)	d2 G (inch)	l1 (mm)	l2 (mm)
⅜	10	**8200.160**	**350 278 401**	1	0.040	⅜	½	22	6
2	50	**8200.640**	**350 279 001**	1	0.650	2	2 ¼	47	11

Spare parts



Repair kit to 1682

- Consisting of: pendulum with sealing, shaft, sleeve, plug, flat gasket

GN (inch)	Code
½	**350 850 036**
¾	**350 850 046**
1	**350 850 056**
1 ¼	**350 850 066**
1 ½	**350 850 076**
2	**350 850 086**



JRGUMAT thermoblending valve, PN 10

- Temperature: max. 90°C
- Material: gunmetal
- Connection: male thread

GN (inch)	DN (mm)	range (°C)	Temperature (°C)	JRG Code	GF Code	SP	Weight (kg)
½	15	20 - 30	25	**3400.910**	**350 760 511**	1	0.530
½	15	30 - 45	40	**3400.912**	**350 760 512**	1	0.530
½	15	35 - 55	48	**3400.914**	**350 760 517**	1	0.530
½	15	45 - 65	55	**3400.916**	**350 760 513**	1	0.530
¾	20	20 - 30	25	**3400.920**	**350 760 411**	1	0.700
¾	20	30 - 45	40	**3400.922**	**350 760 412**	1	0.670
¾	20	35 - 55	48	**3400.924**	**350 760 417**	1	0.670
¾	20	45 - 65	55	**3400.926**	**350 760 413**	1	0.701
1	25	20 - 30	25	**3400.930**	**350 760 311**	1	0.870
1	25	30 - 45	40	**3400.932**	**350 760 312**	1	0.870
1	25	35 - 55	48	**3400.934**	**350 760 317**	1	0.910
1	25	45 - 65	55	**3400.936**	**350 760 313**	1	0.910
1 ¼	32	20 - 30	25	**3400.940**	**350 760 211**	1	1.670
1 ¼	32	30 - 45	40	**3400.942**	**350 760 212**	1	1.630
1 ¼	32	35 - 55	48	**3400.944**	**350 760 217**	1	1.590
1 ¼	32	45 - 65	55	**3400.946**	**350 760 213**	1	1.590
1 ½	40	20 - 30	25	**3400.950**	**350 760 111**	1	2.140
1 ½	40	30 - 45	40	**3400.952**	**350 760 112**	1	2.140
1 ½	40	35 - 55	48	**3400.954**	**350 760 117**	1	2.140
1 ½	40	45 - 65	55	**3400.956**	**350 760 113**	1	2.100
2	50	20 - 30	25	**3400.960**	**350 760 011**	1	3.610
2	50	30 - 45	40	**3400.962**	**350 760 012**	1	3.510
2	50	35 - 55	48	**3400.964**	**350 760 017**	1	3.510
2	50	45 - 65	55	**3400.966**	**350 760 013**	1	3.510

GN (inch)	DN (mm)	d2 G (inch)	d3 G (inch)	h1 (mm)	h2 (mm)	h3 (mm)	l (mm)	l1 (mm)	l2 (mm)	⬡
½	15	1 ⅛			47	35	90	35	55	5
½	15	1 ⅛			47	35	90	35	55	5
½	15	1 ⅛			47	35	90	35	55	5
½	15	1 ⅛			47	35	90	35	55	5
¾	20	1 ¼	½	32	49	40	100	40	60	5
¾	20	1 ¼	½	32	49	40	100	40	60	5
¾	20	1 ¼	½	32	49	40	100	40	60	5
¾	20	1 ¼	½	32	49	40	100	40	60	5
1	25	1 ½	¾	36	51	43	110	43	67	5
1	25	1 ½	¾	36	51	43	110	43	67	5
1	25	1 ½	¾	36	51	43	110	43	67	5
1	25	1 ½	¾	36	51	43	110	43	67	5

table continued on the next page

GN (inch)	DN (mm)	d2 G (inch)	d3 G (inch)	h1 (mm)	h2 (mm)	h3 (mm)	l (mm)	l1 (mm)	l2 (mm)	⬡
1 ¼	32	2	¾	41	75	52	130	52	78	8
1 ¼	32	2	¾	41	75	52	130	52	78	8
1 ¼	32	2	¾	41	75	52	130	52	78	8
1 ¼	32	2	¾	41	75	52	130	52	78	8
1 ½	40	2 ¼	¾	50	77	58	150	58	92	8
1 ½	40	2 ¼	¾	50	77	58	150	58	92	8
1 ½	40	2 ¼	¾	50	77	58	150	58	92	8
1 ½	40	2 ¼	¾	50	77	58	150	58	92	8
2	50	2 ¾	¾	60	85	70	180	70	110	8
2	50	2 ¾	¾	60	85	70	180	70	110	8
2	50	2 ¾	¾	60	85	70	180	70	110	8
2	50	2 ¾	¾	60	85	70	180	70	110	8



JRGUMAT thermoblending valve, PN 10

- Temperature: max. 90°C
- Material: gunmetal
- Connection: flange

DN (mm)	range (°C)	Temperature (°C)	JRG Code	GF Code	SP	Weight (kg)
65	20 - 30	25	**3410.601**	**350 767 204**	1	22.500
65	30 - 45	40	**3410.605**	**350 767 215**	1	22.500
65	35 - 55	48	**3410.606**	**350 767 218**	1	22.680
65	45 - 65	55	**3410.608**	**350 767 216**	1	22.500
80	20 - 30	25	**3410.801**	**350 767 414**	1	27.500
80	30 - 45	40	**3410.805**	**350 767 415**	1	27.500
80	35 - 55	48	**3410.806**	**350 767 418**	1	27.734
80	45 - 65	55	**3410.808**	**350 767 416**	1	27.500

DN (mm)	d1 (mm)	d2 G (inch)	d3 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	○	⬡
65	65	1 ½	185	82	121	145	290	112	4	8
65	65	1 ½	185	82	121	145	290	112	4	8
65	65	1 ½	185	82	121	145	290	112	4	8
65	65	1 ½	185	82	121	145	290	112	4	8
80	80	2	200	92	127	155	310	124	8	8
80	80	2	200	92	127	155	310	124	8	8
80	80	2	200	92	127	155	310	124	8	8
80	80	2	200	92	127	155	310	124	8	8

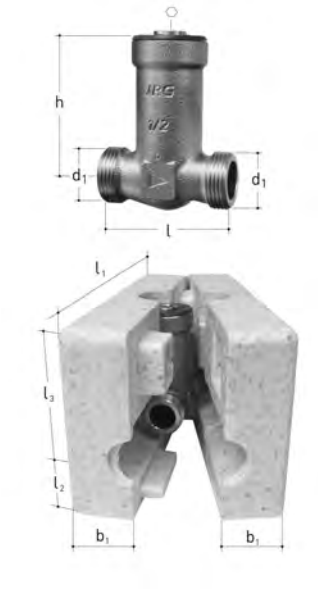


JRGUMAT thermoblending valve British Standard, PN 10

- Temperature: max. 90°C
- Material: gunmetal
- Connection: flange

DN (mm)	Temperature (°C)	JRG Code	GF Code	SP	Weight (kg)
65	40	**3412.605**	**350 767 202**	1	22.500
65	55	**3412.608**	**350 767 203**	1	22.500
80	40	**3412.805**	**350 767 402**	1	27.500
80	55	**3412.808**	**350 767 403**	1	27.500

DN (mm)	d1 (mm)	d2 G (inch)	d3 (mm)	h1 (mm)	h2 (mm)	l1 (mm)	l2 (mm)	l3 (mm)	⬡
65	65	1 ½	185	82	121	145	290	112	8
65	65	1 ½	185	82	121	145	290	112	8
80	80	2	200	92	127	155	310	124	8
80	80	2	200	92	127	155	310	124	8



JRGUTHERM Flow regulator, PN 10

- Material: gunmetal
- Factory setting: 57°C (adjustable 36 - 63°C)
- Connection: male thread

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)
½	15	**6320.914**	**350 831 401**	1	0.500
¾	20	**6320.924**	**350 831 501**	1	0.519

GN (inch)	DN (mm)	d1 G (inch)	h (mm)	l (mm)	⬡	l1 (mm)	l2 (mm)	l3 (mm)	b1 (mm)
½	15	¾	64	60	8	194	38	70	37
¾	20	1	64	60	8	194	38	70	37



Temperature sensor PT 1000, PN 10

- Temperature: max. 0 - 105°C

GN (inch)	DN (mm)	JRG Code	GF Code	SP	Weight (kg)	d1 G (inch)	l1 (mm)	l2 (mm)	⬡
¼	8	**6326.001**	**350 830 182**	1	0.072	¼	46	1000	16

ecoFIT



Technical data

Materials
PE

Dimensions range
20 mm to 1200 mm (ISO/DIN)

Jointing technology
Electro fusion, socket fusion, butt fusoin, IR fusion

Operating pressure
Up to 16 bar

Operating temperature
–50°C to 60°C

Your benefits

- **UV and weather-resistant**
- **Outstanding abrasion resistance**
- **High impact strength**
- **Wide choice of jointing technologies**

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Pressure-temperature diagram for PE

PE100

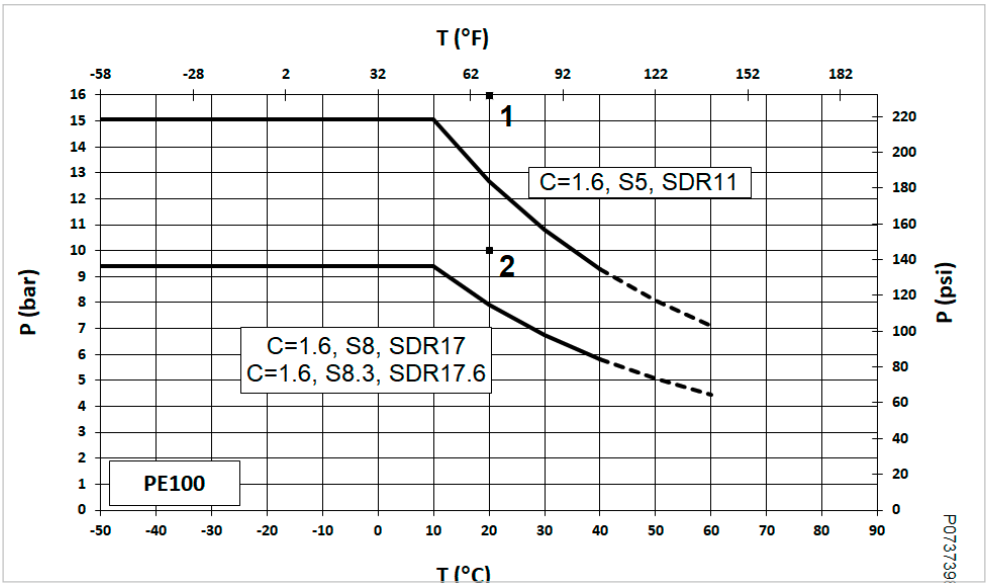
The following pressure-temperature diagram for PE100 pipe and fittings is valid for a service life of 25 years.

The design factor of 1.6 (or 1.25) recommended by GF Piping Systems has been incorporated.

The diagram can be used for water or media resembling water, in other words, media that have no reduction factor for chemical resistance.

Please take into account the pressure-temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared to pipe and fittings. More information is available in the Planning Fundamentals of the relevant types of valves and special fittings.

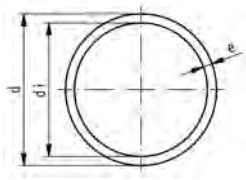
In case of long-term operating pressure at temperatures above 40 °C, please contact your authorized GF Piping Systems representative.



1 Design factor C = 1.25, S5, SDR11 for 20 °C water, 50 years
2 Design factor C = 1.25, S8.3, SDR17.6 and S8, SDR17 for 20 °C water, 50 years
P Permissible pressure (bar, psi)
T Temperature (°C, °F)

ecoFIT pipes





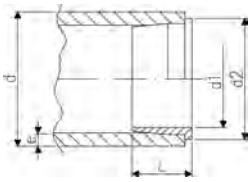
ecoFIT pipe SDR11/PN16/S5

Model:

- Material: PE100
- Dimension: acc. to DIN 8074/75
- Colour: black
- Pipe length: 5m, with plain ends
- **Note 1**: DIBT Z-40.23-406 Approval
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

Note	d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)
1	16	16	**193 017 155**	0.084	1.8
1	20	16	**193 017 156**	0.118	2.0
1	25	16	**193 017 157**	0.173	2.3
1	32	16	**193 017 158**	0.282	3.0
1	40	16	**193 017 159**	0.434	3.7
1	50	16	**193 017 160**	0.673	4.6
1	63	16	**193 017 161**	1.060	5.8
1	75	16	**193 017 162**	1.480	6.8
1	90	16	**193 017 163**	2.140	8.2
1	110	16	**193 017 164**	3.180	10.0
1	125	16	**193 017 165**	4.120	11.4
1	140	16	**193 017 166**	5.130	12.7
1	160	16	**193 017 167**	6.740	14.6
1	180	16	**193 017 168**	8.510	16.4
1	200	16	**193 017 169**	10.500	18.2
1	225	16	**193 017 170**	13.300	20.5
	250	16	**193 017 171**	16.300	22.7
	280	16	**193 017 172**	20.500	25.4
	315	16	**193 017 173**	25.900	28.6
	355	16	**193 017 174**	32.900	32.2
	400	16	**193 017 175**	41.700	36.3
	450	16	**193 017 176**	52.800	40.9
	500	16	**193 017 177**	65.200	45.4





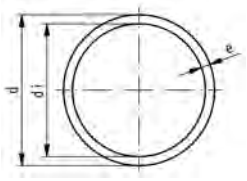
ecoFIT stiffener

Model:

- Material: PE100
- Used as support during d20 and d25 socket fusion jointing to prevent the pipe from collapsing during the heating and jointing process.

d (mm)	Code	Weight (kg/m)	L (mm)	e (mm)	d1 (mm)	D2 (mm)	d2 (mm)
20	**733 900 006**	0.001	10	1.9	14	18	18
25	**733 900 007**	0.001	11	2.3	18	22	23





ecoFIT pipe SDR17,6/PN10/S8,3

Model:

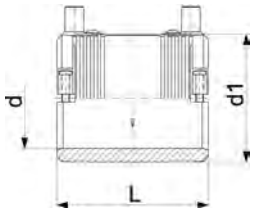
- Material: PE100
- Dimension: acc. to DIN 8074/75
- Colour: black
- Pipe length: 5m, with plain ends
- **Note 1**: DIBT Z-40.23-406 Approval
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

Note	d (mm)	Code	Weight (kg/m)	e (mm)
1	25	**193 017 107**	0.139	1.8
1	32	**193 017 108**	0.198	2.0
1	40	**193 017 109**	0.288	2.3
1	50	**193 017 110**	0.445	2.9
1	63	**193 017 111**	0.695	3.6
1	75	**193 017 112**	0.987	4.3
1	90	**193 017 113**	1.400	5.1
1	110	**193 017 114**	2.100	6.3
1	125	**193 017 115**	2.690	7.1
1	140	**193 017 116**	3.370	8.0
1	160	**193 017 117**	4.400	9.1
1	180	**193 017 118**	5.540	10.2
1	200	**193 017 119**	6.860	11.4
1	225	**193 017 120**	8.640	12.8
	250	**193 017 121**	10.700	14.2
	280	**193 017 122**	13.300	15.9
	315	**193 017 123**	16.900	17.9
	355	**193 017 124**	21.400	20.1
	400	**193 017 125**	27.200	22.7
	450	**193 017 126**	34.300	25.5
	500	**193 017 127**	42.300	28.3

ELGEF Plus electrofusion fittings

Coupler



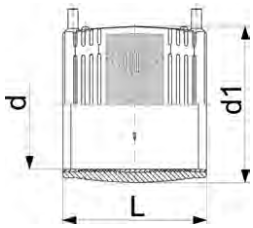


Coupler
With integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	SDR pipe
20	**753 911 606**	0.053	31	70	9-11
25	**753 911 607**	0.050	36	70	9-11
32	**753 911 608**	0.071	44	72	9-11
40	**753 911 609**	0.095	54	80	9-11
50	**753 911 610**	0.131	66	88	9-11
63	**753 911 611**	0.194	81	96	9-17.6



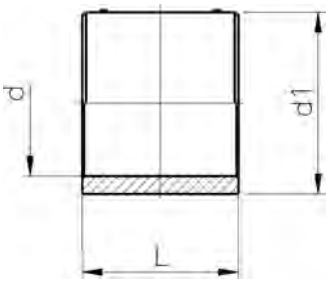


Coupler

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Removable centre stop up to d160

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	SDR pipe
75	**753 911 612**	0.282	96	110	9-17.6
90	**753 911 613**	0.406	113	125	9-17.6
110	**753 911 614**	0.692	138	145	9-17.6
125	**753 911 615**	0.718	154	156	9-17.6
140	**753 911 616**	0.945	172	166	9-17.6
160	**753 911 617**	1.362	196	180	9-17.6
180	**753 911 618**	1.747	219	192	9-17.6
200	**753 911 619**	1.866	244	208	9-17.6
225	**753 911 620**	3.329	273	225	9-17.6
250	**753 911 621**	4.678	304	248	9-17.6
280	**753 911 622**	7.500	340	252	9-17.6
315	**753 911 623**	8.142	382	267	9-17.6



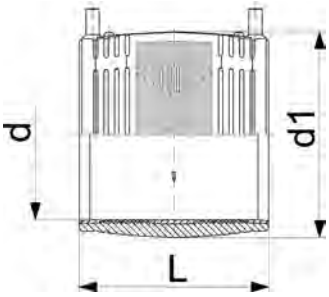


Coupler

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- With active reinforcement

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	SDR pipe
355	**753 911 704**	13.098	438	291	9-17
400	**753 911 705**	18.320	493	295	9-17
450	**753 911 706**	24.700	554	327	9-17
500	**753 911 707**	33.700	616	358	9-17
560	**753 911 708**	46.200	689	396	9-17
630	**753 911 709**	65.300	775	440	9-17



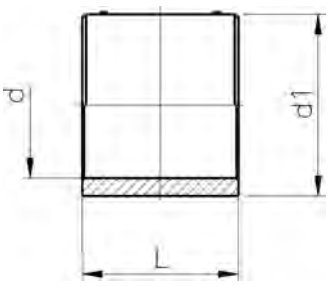


Coupler

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- d160 with removable centre stop

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	SDR pipe
160	**753 911 817**	1.017	186	180	9-26
180	**753 911 818**	1.434	213	192	9-26
200	**753 911 819**	1.726	233	206	9-26
225	**753 911 820**	2.545	261	225	9-26
250	**753 911 821**	4.616	304	248	9-26
280	**753 911 822**	5.606	340	252	9-26
315	**753 911 823**	6.100	382	267	9-26





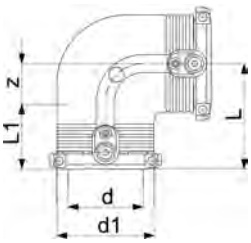
Coupler

- **PE 100 SDR 17 (ISO S8)**
- 5 bar Gas / 10 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- With active reinforcement

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	SDR pipe
355	**753 911 804**	9.522	416	291	17-33
400	**753 911 805**	18.000	467	295	17-33
450	**753 911 806**	16.000	526	327	17-33
500	**753 911 807**	22.000	584	358	17-33
560	**753 911 808**	34.000	647	396	17-33
630	**753 911 809**	46.000	727	440	17-33

Elbows



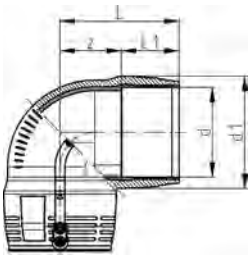


Elbow 90°
With integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	SDR pipe
20	**753 101 606**	0.080	35	54	34	20	9-11
25	**753 101 607**	0.074	35	54	34	20	9-11
32	**753 101 608**	0.094	44	53	36	17	9-11
40	**753 101 609**	0.128	54	62	39	23	9-11
50	**753 101 610**	0.196	66	71	43	28	9-11
63	**753 101 611**	0.312	81	81	48	32	9-17.6



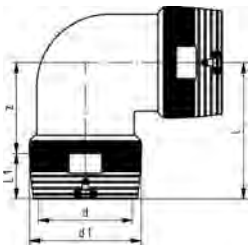


Elbow 90°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	SDR pipe
75	**753 101 612**	0.415	97	94	54	40	9-11
90	**753 101 813**	0.828	115	122	62	60	9-17.6
110	**753 101 814**	1.224	140	147	72	76	9-17.6
125	**753 101 815**	1.742	160	155	77	68	9-17.6
160	**753 101 817**	3.830	196	191	92	103	11-17.6
180	**753 101 818**	5.410	219	210	96	114	11-17.6



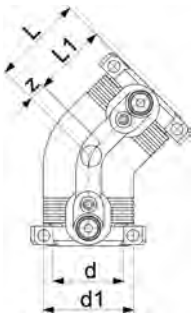


Elbow 90°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	SDR pipe
200	**753 101 819**	9.320	250	298	104	194	11-26
225	**753 101 820**	13.220	280	318	112	206	11-26
250	**753 101 821**	16.600	310	347	123	224	11-26





Elbow 45°
With integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	SDR pipe
32	**753 151 608**	0.075	44	44	36	8	9-11
40	**753 151 609**	0.106	54	50	39	11	9-11
50	**753 151 610**	0.171	66	56	43	13	9-11
63	**753 151 611**	0.252	81	63	48	15	9-17.6



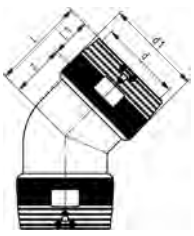


Elbow 45°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	SDR pipe
75	**753 151 612**	0.332	97	71	54	17	9-11
90	**753 151 813**	0.583	115	91	62	29	9-11
110	**753 151 814**	0.985	140	112	72	40	9-17.6
125	**753 151 815**	1.438	160	119	78	49	9-17.6
160	**753 151 817**	3.055	196	135	92	42	11-17.6
180	**753 151 818**	4.037	217	144	95	47	11-17.6





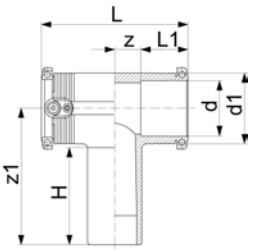
Elbow 45°

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	SDR pipe
200	**753 151 819**	7.566	250	232	104	128	11-26
225	**753 151 820**	11.300	280	247	112	135	11-26
250	**753 151 821**	13.500	310	275	123	152	11-26

Tees





Tee 90° equal
With integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	H (mm)	SDR pipe
20	**753 211 606**	0.085	35	88	32	11	92	67	9-11
25	**753 211 607**	0.075	35	90	32	11	92	70	9-11
32	**753 211 608**	0.118	44	102	34	15	100	74	9-11
40	**753 211 609**	0.175	54	119	39	21	114	82	9-11
50	**753 211 610**	0.252	66	135	42	24	126	90	9-11
63	**753 211 611**	0.407	81	151	46	28	150	102	9-17.6



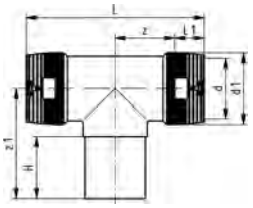


Tee 90° equal

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	H (mm)	SDR pipe
75	**753 211 612**	0.569	97	178	54	35	143	87	9-17.6
90	**753 201 813**	0.891	115	205	62	41	161	94	9-17.6
110	**753 201 814**	1.576	140	255	72	56	184	104	9-17.6
125	**753 201 815**	2.212	161	276	78	60	207	113	9-17.6
160	**753 201 817**	4.386	196	325	92	71	206	103	11-17.6
180	**753 201 818**	6.796	225	344	90	82	250	110	11-17.6



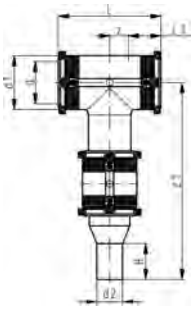


Tee 90° equal

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	H (mm)	SDR pipe
200	**753 201 819**	10.800	250	590	104	191	250	117	11-26
225	**753 201 820**	15.900	280	636	112	206	270	122	11-26
250	**753 201 821**	18.900	310	685	123	220	288	127	11-26



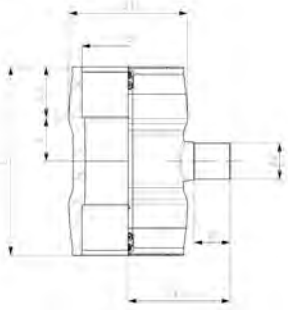


Tee 90° reduced (kit)

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler and Spigot Reducer

d (mm)	d2 (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	H (mm)
40	20	**193 281 004**	0.314	54	120	39	21	244	41
40	25	**193 281 005**	0.319	54	120	39	21	244	41
75	40	**193 280 998**	1.060	97	187	61	33	296	49
90	50	**193 280 999**	1.655	112	202	61	41	336	55
110	63	**193 280 961**	2.812	136	242	65	56	336	63
125	63	**193 280 963**	3.673	151	256	75	53	361	63
125	110	**193 280 965**	3.920	151	256	75	53	389	82
180	90	**193 281 032**	10.891	225	344	90	82	487	79
180	110	**193 281 033**	10.465	225	344	90	82	495	82





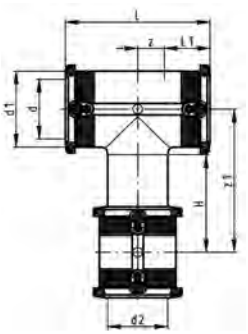
Tee 90° reduced

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

* Two separate fusion zones

	d (mm)	d2 (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	H (mm)	SDR pipe
	110	90	**753 211 034**	1.652	140	255	72	56	245	80	9-17.6
	125	90	**753 211 035**	2.242	156	276	75	53	245	80	9-17.6
	160	63	**753 211 025**	3.700	208	330	89	76	178	63	11-17.6
	160	90	**753 211 026**	3.900	208	330	89	76	209	94	11-17.6
	160	110	**753 211 027**	4.000	208	330	89	76	219	104	11-17.6
*	200	90	**753 211 059**	9.012	250	595	104	194	216	81	11-26
*	200	110	**753 211 060**	12.400	250	600	104	194	219	84	11-26
*	200	160	**753 211 063**	12.400	250	595	104	194	237	101	11-26
*	225	90	**753 211 069**	13.100	280	666	112	217	228	80	11-26
*	225	110	**753 211 070**	13.100	280	670	112	217	238	85	11-26
*	225	160	**753 211 073**	13.600	280	667	112	217	258	105	11-26
*	250	110	**753 211 080**	11.660	310	709	123	220	284	85	11-26
*	250	160	**753 211 083**	17.070	310	711	123	220	266	101	11-26



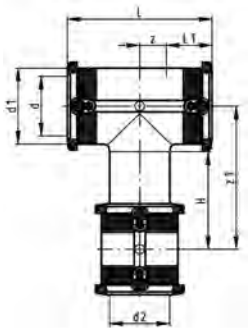


Tee 90° with weldable outlet (kit)
Equal or reduced

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler or ELGEF Plus Reducer

d (mm)	d2 (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	H (mm)
20	20	**753 201 606**	0.161	35	90	34	11	92	67
25	25	**753 201 607**	0.122	35	90	34	11	92	70
32	32	**753 201 608**	0.201	44	102	36	15	100	74
40	32	**193 281 006**	0.288	54	120	39	21	127	95
40	40	**753 201 609**	0.285	54	120	39	21	114	82
50	32	**193 281 007**	0.364	66	135	43	24	144	108
50	40	**193 281 008**	0.407	66	135	43	24	140	104
50	50	**753 201 610**	0.389	66	135	43	24	126	90

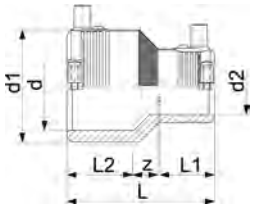
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d (mm)	d2 (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	H (mm)
63	32	**193 280 997**	0.550	81	152	48	28	173	125
63	40	**193 281 009**	0.566	81	152	48	28	169	121
63	50	**193 281 010**	0.628	81	152	48	28	165	117
63	63	**753 201 611**	0.615	81	152	48	28	150	102
90	63	**193 281 011**	1.311	112	202	61	41	182	120
90	90	**753 201 613**	1.342	112	202	61	41	146	84
110	90	**193 281 012**	2.343	136	242	65	56	200	127
110	110	**753 201 614**	2.329	136	242	65	56	161	88
125	90	**193 281 013**	3.146	151	256	75	53	214	132
125	125	**753 201 615**	2.960	151	256	75	53	174	92
160	110	**193 281 030**	7.443	196	325	92	71	271	168
160	160	**753 201 617**	6.359	196	325	92	71	206	103
180	125	**193 281 031**	9.654	225	344	90	82	330	190
180	180	**753 201 618**	8.561	225	344	90	82	250	110

Reducers



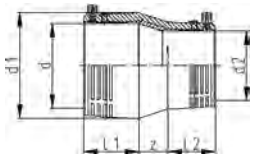


Reducer
With integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d (mm)	d2 (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	SDR pipe
25	20	**753 901 639**	0.051	35	74	34	34	6	9-11
32	20	**753 901 640**	0.056	44	79	33	36	10	9-11
32	25	**753 901 641**	0.062	44	79	33	36	10	9-11
40	20	**753 901 644**	0.069	54	88	33	39	15	9-11
40	25	**753 901 645**	0.084	54	88	33	39	15	9-11
40	32	**753 901 646**	0.095	54	88	33	39	13	9-11
50	32	**753 901 651**	0.124	66	96	35	43	18	9-11
50	40	**753 901 652**	0.119	66	96	39	43	14	9-11
63	32	**753 901 656**	0.158	81	105	35	48	23	9-11
63	40	**753 901 657**	0.176	81	105	39	48	19	9-11
63	50	**753 901 658**	0.176	81	105	43	48	15	9-11



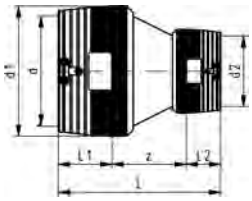


Reducer

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d (mm)	d2 (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	SDR pipe
90	63	**753 901 831**	0.385	113	146	63	47	36	9-17.6
110	63	**753 901 832**	0.644	140	184	71	58	55	9-11
110	90	**753 901 833**	0.700	138	173	73	63	38	9-17.6
125	90	**753 901 836**	0.891	152	180	79	61	40	9-17.6
160	90	**753 901 839**	1.600	202	227	90	72	65	9-17.6
160	110	**753 901 864**	1.783	202	226	90	71	65	9-17.6
180	125	**753 901 865**	2.340	225	254	96	78	80	9-17.6



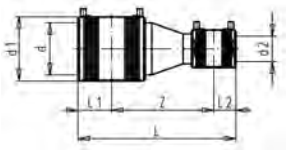


Reducer

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Two separate fusion zones

d (mm)	d2 (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	SDR pipe
200	160	**753 901 837**	5.098	250	365	104	90	171	11-26
225	160	**753 901 838**	6.000	280	385	112	90	183	11-26
225	200	**753 901 845**	8.200	280	390	112	104	173	11-26
250	160	**753 901 840**	7.860	310	400	123	90	187	11-26
250	200	**753 901 841**	8.480	310	417	123	104	200	11-26
250	225	**753 901 842**	8.450	310	430	123	112	204	11-26





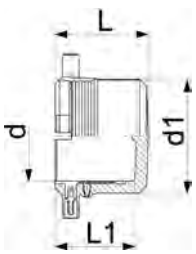
Reducer (kit)

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Integral pipe fixation (up to d63)
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler and Spigot Reducer

d (mm)	d2 (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
75	40	**193 280 992**	0.574	96	265	55	40	170
75	50	**193 280 993**	0.623	96	269	55	44	170
75	63	**193 280 994**	0.700	96	273	55	48	170
90	50	**193 280 958**	0.857	113	297	63	44	190
90	75	**193 280 995**	1.071	113	308	63	55	190
110	75	**193 280 996**	1.496	138	333	73	55	205
125	63	**193 280 953**	1.567	154	314	79	48	187
125	110	**193 280 951**	2.098	154	367	79	73	215
160	125	**193 280 952**	3.252	196	414	90	79	245
180	110	**193 280 959**	4.167	214	413	95	73	245

End caps



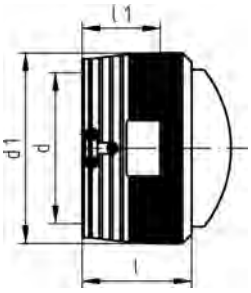


End cap
With integral pipe fixation

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	SDR pipe
20	**753 961 606**	0.041	35	52	44	9-11
25	**753 961 607**	0.046	35	52	44	9-11
32	**753 961 608**	0.058	44	52	44	9-11
40	**753 961 609**	0.064	54	56	47	9-11
50	**753 961 610**	0.154	66	60	49	9-11
63	**753 961 611**	0.142	81	66	54	9-17.6



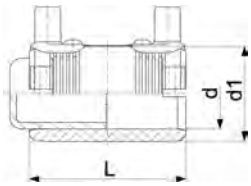


End cap

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	L1 (mm)	SDR pipe
160	**753 961 617**	1.782	200	143	90	11-17.6
200	**753 961 619**	3.585	250	162	104	11-26
225	**753 961 620**	4.500	280	170	112	11-26
250	**753 961 621**	6.300	310	185	123	11-26





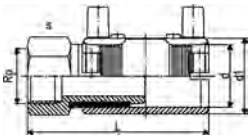
End cap (kit)

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including ELGEF Plus Coupler

d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)
75	**753 961 712**	0.446	96	110
90	**753 961 713**	0.663	113	125
110	**753 961 714**	1.090	133	145
125	**753 961 715**	1.345	155	158
140	**753 961 716**	2.250	175	170
160	**753 961 717**	2.382	197	180
180	**753 961 718**	3.098	220	194
200	**753 961 719**	4.180	245	208
225	**753 961 720**	5.852	296	224

Transition fittings



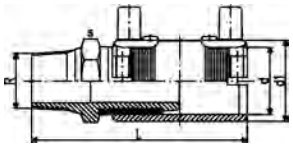


Transition coupler PE/steel (stainless 1.4305) Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d (mm)	Rp (inch)	Code	Weight (kg)	d1 (mm)	L (mm)	s (mm)	SDR pipe
20	½	**724 920 256**	0.179	31	100	30	9-11
25	¾	**724 920 257**	0.231	36	101	35	9-11
32	1	**724 920 258**	0.319	44	108	40	9-11
40	1 ¼	**724 920 259**	0.480	54	118	50	9-11
50	1 ½	**724 920 260**	0.646	66	126	60	9-11
63	2	**724 920 261**	0.931	81	138	70	9-17.6



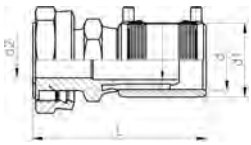


Transition coupler PE/steel (stainless 1.4305)
Male thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Delivered as a kit. Further combinations: modular system with threaded adapter and (150 228-1) reductions

d (mm)	R (inch)	Code	Weight (kg)	d1 (mm)	L (mm)	s (mm)	SDR pipe
20	½	**724 920 756**	0.165	31	110	30	9-11
25	¾	**724 920 757**	0.249	36	111	35	9-11
32	1	**724 920 758**	0.332	44	117	40	9-11
40	1 ¼	**724 920 759**	0.464	54	127	50	9-11
40	1 ½	**724 920 772**	0.528	66	143	60	9-11
50	1 ½	**724 920 760**	0.611	66	135	60	9-11
63	1 ½	**724 920 771**	0.904	81	147	70	9-17.6
63	2	**724 920 761**	0.942	81	147	70	9-17.6



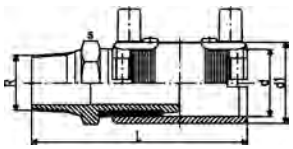


Transition coupler PE/brass (CW617N)
With loose nut

- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Delivered as a kit. Further combinations: modular system with threaded adapter and (150 228-1) reductions
- Incl. flat gasket for water applications (KTW / WRAS approved)

d (mm)	G (inch)	Code	Weight (kg)	d1 (mm)	d2 (mm)	L (mm)	SDR pipe
25	¾	**720 910 007**	0.232	36	15	104	9-11
32	1	**720 910 008**	0.297	44	20	110	9-11
32	1 ½	**720 910 028**	0.480	44	22	114	9-11
50	1 ½	**720 910 010**	0.736	66	29	133	9-11
63	1	**720 910 021**	1.013	81	20	137	9-17.6
63	2	**720 910 011**	1.251	81	36	145	9-17.6



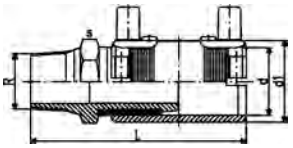


Transition coupler PE/brass (CW617N)
Male thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit with ELGEF Plus coupler or *reducer

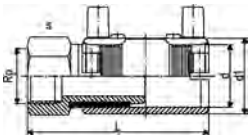
	R (inch)	d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	s (mm)	SDR pipe
	½	20	**720 920 756**	0.187	31	110	30	9-11
*	1	20	**720 920 754**	0.344	44	124	40	9-11
	¾	25	**720 920 757**	0.254	36	111	35	9-11
*	1	25	**720 920 763**	0.340	44	124	40	9-11
*	½	32	**720 920 764**	0.213	44	121	30	9-11
	¾	32	**720 920 765**	0.268	44	122	35	9-11
	1	32	**720 920 758**	0.340	44	117	40	9-11
	1 ¼	32	**720 920 766**	0.489	54	135	50	9-11
	1 ½	32	**720 920 767**	0.635	60	143	60	9-11
*	2	32	**720 920 768**	1.000	81	157	70	9-11

table continued on the next page



	R (inch)	d (mm)	Code	Weight (kg)	d1 (mm)	L (mm)	s (mm)	SDR pipe
	1	40	**720 920 771**	0.364	54	133	40	9-11
	1 ¼	40	**720 920 759**	0.514	54	127	50	9-11
	1 ½	40	**720 920 772**	0.645	66	143	60	9-11
*	2	40	**720 920 773**	0.961	81	157	70	9-11
	1	50	**720 920 776**	0.367	66	141	40	9-11
	1 ¼	50	**720 920 777**	0.554	66	143	50	9-11
	1 ½	50	**720 920 760**	0.652	66	135	60	9-11
	2	50	**720 920 778**	0.971	81	157	70	9-11
	1	63	**720 920 781**	0.441	81	151	40	9-11
	1 ¼	63	**720 920 782**	0.600	81	153	40	9-11
	1 ½	63	**720 920 783**	0.712	81	153	60	9-17.6
	2	63	**720 920 761**	0.943	81	147	70	9-17.6



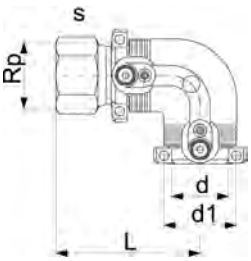


Transition coupler PE/brass (CW617N)
Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d (mm)	Rp (inch)	Code	Weight (kg)	d1 (mm)	L (mm)	s (mm)
32	1	**720 920 258**	0.306	44	108	40
40	1 ¼	**720 920 259**	0.496	54	118	50
50	1 ½	**720 920 260**	0.725	66	126	60
63	1	**720 920 281**	1.300	81	138	70
63	1 ¼	**720 920 282**	1.230	81	138	70
63	1 ½	**720 920 283**	1.134	81	138	70
63	2	**720 920 261**	1.057	81	138	70



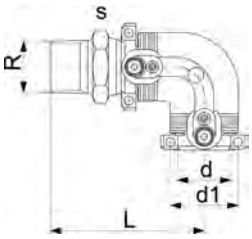


Transition elbow 90° PE/steel (stainless 1.4305)
Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d (mm)	Rp (inch)	Code	Weight (kg)	d1 (mm)	L (mm)	s (mm)	SDR pipe
20	½	**724 100 256**	0.211	31	86	30	9-11
25	¾	**724 100 257**	0.237	36	87	35	9-11
32	1	**724 100 258**	0.320	44	89	40	9-11
40	1 ¼	**724 100 259**	0.545	54	100	50	9-11
50	1 ½	**724 100 260**	0.805	66	109	60	9-11
63	2	**724 100 261**	1.020	81	123	70	9-17.6



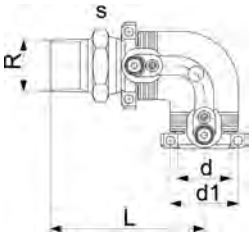


Transition elbow 90° PE/steel (stainless 1.4305)
Male thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d (mm)	R (inch)	Code	Weight (kg)	d1 (mm)	L (mm)	s (mm)	SDR pipe
20	½	**724 100 756**	0.211	31	96	30	9-11
25	¾	**724 100 757**	0.230	36	97	35	9-11
32	1	**724 100 758**	0.324	44	98	40	9-11
40	1 ¼	**724 100 759**	0.560	54	109	50	9-11
40	1 ½	**724 100 772**	0.599	54	109	60	9-11
50	1 ½	**724 100 760**	0.701	66	118	60	9-11
63	1 ½	**724 100 771**	0.986	81	132	70	9-17.6
63	2	**724 100 761**	1.105	81	132	70	9-17.6



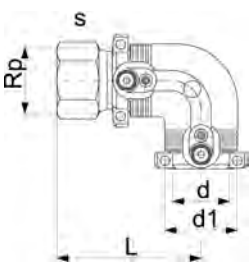


Transition elbow 90° PE/brass (CW617N)
Male thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

d (mm)	R (inch)	Code	Weight (kg)	d1 (mm)	L (mm)	s (mm)	SDR pipe
20	½	**720 100 756**	0.240	31	96	30	9-11
25	¾	**720 100 757**	0.260	36	97	35	9-11
32	1	**720 100 758**	0.368	44	98	40	9-11
32	1 ¼	**720 100 766**	0.500	44	100	50	9-11
32	1 ½	**720 100 767**	0.562	44	100	60	9-11
40	1	**720 100 771**	0.511	54	107	50	9-11
40	1 ¼	**720 100 759**	0.534	54	109	50	9-11
40	1 ½	**720 100 772**	0.615	54	109	60	9-11
50	1	**720 100 776**	0.677	66	116	60	9-11
50	1 ¼	**720 100 777**	0.771	66	118	60	9-11
50	1 ½	**720 100 760**	0.734	66	118	60	9-11
63	1 ¼	**720 100 782**	1.040	81	128	70	9-17.6
63	1 ½	**720 100 783**	1.039	81	128	70	9-17.6
63	2	**720 100 761**	1.108	81	132	70	9-17.6



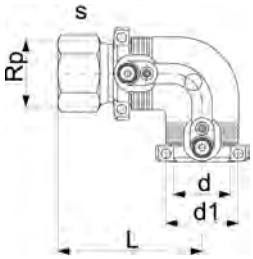


Transition elbow 90° PE/brass (CW617N)
Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit

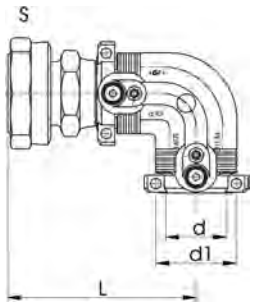
d (mm)	Rp (inch)	Code	Weight (kg)	d1 (mm)	L (mm)	s (mm)	SDR pipe
32	1	**720 100 258**	0.359	44	89	40	9-11
40	1 ¼	**720 100 259**	0.525	54	100	50	9-11
50	1 ½	**720 100 260**	0.825	66	109	60	9-11

table continued on the next page



d (mm)	Rp (inch)	Code	Weight (kg)	d1 (mm)	L (mm)	s (mm)	SDR pipe
63	1	**720 100 281**	1.420	81	123	70	9-11
63	1 ¼	**720 100 282**	1.391	81	123	70	9-17.6
63	1 ½	**720 100 283**	1.305	81	123	70	9-17.6
63	2	**720 100 261**	1.165	81	123	70	9-17.6





Transition elbow 90° PE/brass (CW617N)
With loose nut

- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- With integral pipe fixation
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as a kit
- Incl. flat gasket for water applications (KTW / WRAS approved)

d (mm)	Rp (inch)	Code	Weight (kg)	d1 (mm)	L (mm)	SDR pipe
25	¾	**720 100 007**	0.240	36	90	9-11
32	1	**720 100 008**	0.347	44	91	9-11
32	1 ¼	**720 100 018**	0.490	44	95	9-11
50	1 ½	**720 100 010**	0.850	66	116	9-11
63	1	**720 100 021**	1.114	81	121	9-17.6
63	2	**720 100 011**	1.375	81	129	9-17.6

Accessories



Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the materialof PP, PE, PVDF and PB
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

Size	Code	Weight (kg)
1 liter	**799 298 023**	0.872



Degreasing Tissues

- For degreasing the PE pipe surface prior to fusion

description	Type	Code	Weight (kg)
For pipes up to d225 mm	large	**799 496 011**	0.008



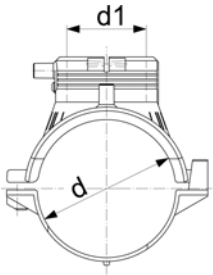
Marker

Type	Code	Weight (kg)
silver	**799 350 364**	0.010

ELGEF Plus saddles

Modular system





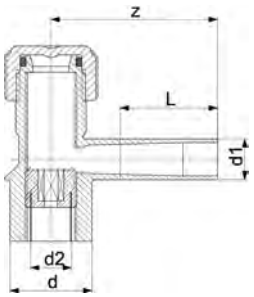
Electrofusion saddle

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- In combination with parts of the modular System, the SDR compatibility is defined by the tapping-tees, tapping-valves and spigots with cutter.

Topload: delivery without lower part for assembling as Top Load with tool no. 799.350.477
* Complete with moulded-on lower part

	d (mm)	d1 (mm)	Code	Weight (kg)	L (mm)	SDR pipe
	63	63	**193 131 037**	0.325	165	9 - 11
	75	63	**193 131 047**	0.455	165	9 - 11
	90	63	**193 131 057**	0.415	165	9 - 17.6
	110	63	**193 131 067**	0.458	165	9 - 17.6
*	110	63	**193 133 067**	0.490	182	9 - 17.6
	125	63	**193 131 077**	0.502	165	9 - 17.6
	140	63	**193 131 087**	0.523	165	9 - 17.6
	160	63	**193 131 097**	0.493	165	9 - 17.6
*	160	63	**193 133 097**	0.543	182	9 - 17.6
	180	63	**193 131 107**	0.600	165	9 - 26
	200	63	**193 131 117**	0.634	165	9 - 26
	225	63	**193 131 127**	0.618	165	9 - 26
	250	63	**193 131 137**	0.627	165	9 - 26
Topload	280	63	**193 131 147**	0.359	165	9 - 26
Topload	315 - 355	63	**193 131 157**	0.373	165	9 - 33
Topload	400	63	**193 131 177**	0.356	165	9 - 33





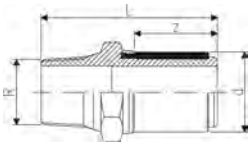
Tapping tee

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Long fusion outlet
- O-ring-sealed screw cap
- For ELGEF Plus Branch Saddle d63-225mm, pipe SDR 11
- For ELGEF Plus Branch Saddle d90-315mm, pipe SDR 17

* For ELGEF Plus Branch Saddle d250-315mm, pipe SDR 11 and d250-400mm, pipe SDR 17
** For ELGEF Plus Branch Saddle d110 - 225mm, pipe SDR11 and d110 - 315mm, pipe SDR17

	d (mm)	d1 (mm)	Code	Weight (kg)	d2 (mm)	L (mm)	z (mm)	SW (mm)
	63	20	**193 280 358**	0.380	32	69	130	17
	63	25	**193 280 359**	0.375	32	70	130	17
	63	32	**193 280 184**	0.232	32	76	130	17
	63	40	**193 280 360**	0.396	32	81	137	17
	63	63	**193 280 185**	0.687	35	100	160	17
*	63	63	**193 280 711**	1.120	35	100	160	17
**	63	63	**193 280 290**	1.086	41	100	160	17



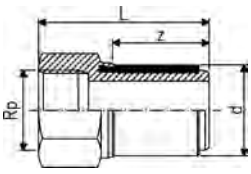


Transition adaptor PE/brass (CW617N)
Male thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d (mm)	R (inch)	Code	Weight (kg)	L (mm)	z (mm)
20	½	**720 920 706**	0.133	75	33
25	¾	**720 920 707**	0.182	76	33
32	1	**720 920 708**	0.257	80	35
32	1 ¼	**720 920 718**	0.370	82	35
32	1 ½	**720 920 728**	0.437	82	35
40	1	**720 920 719**	0.358	84	39
40	1 ¼	**720 920 709**	0.405	86	39
40	1 ½	**720 920 729**	0.454	86	39
50	1	**720 920 720**	0.505	88	43
50	1 ¼	**720 920 730**	0.539	90	43
50	1 ½	**720 920 710**	0.514	90	43
63	1 ¼	**720 920 721**	0.739	94	47
63	1 ½	**720 920 731**	0.709	94	47
63	2	**720 920 711**	0.762	98	47



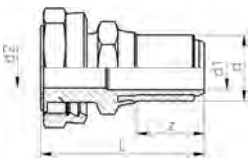


Transition adaptor PE/brass (CW617N)
Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d (mm)	Rp (inch)	Code	Weight (kg)	L (mm)	z (mm)
32	1	**720 920 208**	0.250	71	35
40	1 ¼	**720 920 209**	0.386	77	39
50	1 ½	**720 920 210**	0.520	81	43
63	1	**720 920 221**	0.780	89	47
63	1 ¼	**720 920 231**	1.062	89	47
63	1 ½	**720 920 241**	0.740	89	47
63	2	**720 920 211**	0.729	89	47



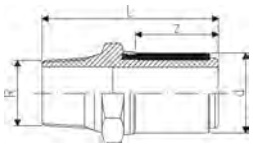


Transition adaptor PE/brass
Loose nut (CW617N)

- **PE 100 SDR 11** (ISO S5)
- 16 bar Water
- Only for ELGEF Plus Couplers and Fittings
- Incl. flat gasket for water applications (KTW / WRAS approved)

d (mm)	G (inch)	Code	Weight (kg)	d2 (mm)	L (mm)	z (mm)
25	¾	**720 920 007**	0.152	15	68	32
32	1	**720 920 008**	0.235	20	72	34
32	1 ¼	**720 920 018**	0.356	22	76	34
50	1 ½	**720 920 010**	0.584	29	87	42
63	1	**720 920 021**	0.804	20	87	46
63	2	**720 920 011**	1.018	36	95	46



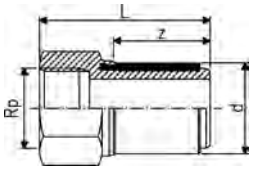


Transition adaptor PE/steel (stainless 1.4305)
Male thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d (mm)	R (inch)	Code	Weight (kg)	L (mm)	z (mm)
20	½	**724 920 706**	0.120	75	33
25	¾	**724 920 707**	0.179	76	33
32	1	**724 920 708**	0.244	80	35
40	1 ¼	**724 920 709**	0.380	86	39
40	1 ½	**724 920 719**	0.446	86	39
50	1 ½	**724 920 710**	0.478	90	43
63	1 ½	**724 920 721**	0.653	98	47
63	2	**724 920 711**	0.722	98	47





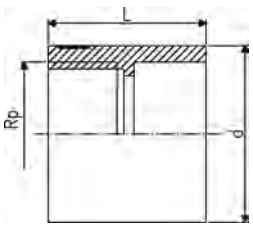
Transition adaptor PE/steel (stainless 1.4305)
Female thread

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Only for ELGEF Plus Couplers and Fittings

d (mm)	Rp (inch)	Code	Weight (kg)	L (mm)	z (mm)
20	½	**724 920 206**	0.128	65	33
25	¾	**724 920 207**	0.181	66	33
32	1	**724 920 208**	0.237	71	35
40	1 ¼	**724 920 209**	0.373	77	39
50	1 ½	**724 920 210**	0.527	81	43
63	2	**724 920 211**	0.733	89	47







PE adaptor
Female thread

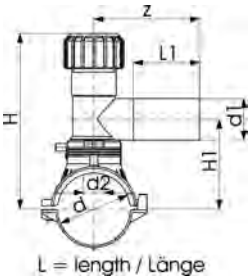
- **PE 80 SDR 11** (ISO S5)
- 5 bar Gas / 12,5 bar Water
- Connection to plastic or metal
- Reinforcing ring stainless (A2)
- For ELGEF Plus Branch Saddle d63 - 400mm, pipe SDR 11, d75 - 400mm, pipe SDR 17
- Parallel female thread

*** PE 100 SDR 11 (ISO S5)**
* 5 bar Gas/ 16 bar water

	d (mm)	Rp (inch)	Code	Weight (kg)	L (mm)
*	63	½	**193 281 617**	0.060	68
	63	1 ½	**173 281 925**	0.088	54

Tapping saddles





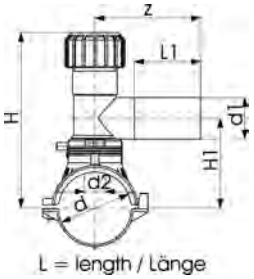
Tapping saddle with 360° rotatable outlet

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap
- d355-400mm. Not suitable for pipes if wall thickness is larger than SDR17 pipes.

Topload: delivery without lower part for assembling as Top Load with tool no. 799.350.477; angle adaptor (799.350.340) for fusion cable required
* Moulded-on lower clamp

	d (mm)	d1 (mm)	Code	Weight (kg)	d2 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	z (mm)	SDR pipe
	63	20	**193 131 402**	0.697	32	186	108	165	71	130	9 - 11
	63	25	**193 131 403**	0.637	32	186	108	165	71	130	9 - 11
	63	32	**193 131 404**	0.701	32	186	108	165	76	130	9 - 11
	63	40	**193 131 405**	0.718	32	186	108	165	81	137	9 - 11
	63	63	**193 131 437**	1.426	32	134	112	165	100	160	9 - 11
	75	20	**193 131 442**	0.831	32	191	113	165	71	130	9 - 11
	75	25	**193 131 443**	0.830	32	191	113	165	71	130	9 - 11
	75	32	**193 131 444**	0.812	32	191	113	165	76	130	9 - 11
	75	40	**193 131 445**	0.849	32	191	113	165	81	137	9 - 11
	75	63	**193 131 447**	1.549	32	240	118	165	100	160	9 - 11
	90	20	**193 131 452**	0.794	32	199	121	165	71	130	9 - 17.6
	90	25	**193 131 453**	0.790	32	199	121	165	71	130	9 - 17.6
	90	32	**193 131 454**	0.770	32	199	121	165	76	130	9 - 17.6
	90	40	**193 131 455**	0.811	32	199	121	165	81	137	9 - 17.6
	90	63	**193 131 457**	1.494	32	248	126	165	100	160	9 - 17.6
*	110	20	**193 131 462**	0.826	32	209	131	182	71	130	9 - 17.6
*	110	25	**193 131 463**	0.808	32	209	131	182	71	130	9 - 17.6
*	110	32	**193 131 464**	0.831	32	209	131	182	76	130	9 - 17.6
*	110	40	**193 131 465**	0.805	32	209	131	182	81	137	9 - 17.6
*	110	63	**193 131 467**	1.097	35	258	136	182	100	160	9 - 17.6
	125	20	**193 131 472**	0.880	32	216	138	165	71	130	9 - 17.6
	125	25	**193 131 473**	0.878	32	216	138	165	71	130	9 - 17.6
	125	32	**193 131 474**	0.878	32	216	138	165	76	130	9 - 17.6
	125	40	**193 131 475**	0.874	32	216	138	165	81	137	9 - 17.6
	125	63	**193 131 477**	1.184	35	265	143	165	100	160	9 - 17.6
	140	20	**193 131 482**	0.887	32	233	146	165	71	130	9 - 17.6
	140	25	**193 131 483**	0.874	32	233	146	165	71	130	9 - 17.6
	140	32	**193 131 484**	0.894	32	233	146	165	76	130	9 - 17.6
	140	40	**193 131 485**	0.920	32	233	146	165	81	137	9 - 17.6
	140	63	**193 131 487**	1.180	35	273	151	165	100	160	9 - 17.6
*	160	20	**193 131 492**	0.916	32	243	156	182	71	130	9 - 17.6
*	160	25	**193 131 493**	0.912	32	243	156	182	71	130	9 - 17.6
*	160	32	**193 131 494**	0.915	32	243	156	182	76	130	9 - 17.6
*	160	40	**193 131 495**	0.936	32	243	156	182	81	137	9 - 17.6
*	160	63	**193 131 497**	1.221	35	283	161	182	100	160	9 - 17.6
	180	20	**193 131 502**	0.994	32	244	166	165	71	130	9 - 26
	180	25	**193 131 503**	1.001	32	244	166	165	71	130	9 - 26
	180	32	**193 131 504**	0.957	32	244	166	165	76	130	9 - 26
	180	40	**193 131 505**	1.007	32	244	166	165	81	137	9 - 26
	180	63	**193 131 507**	1.587	35	293	171	165	100	160	9 - 26
	200	20	**193 131 512**	1.015	32	254	176	165	71	130	9 - 26
	200	25	**193 131 513**	1.015	32	254	176	165	71	130	9 - 26
	200	32	**193 131 514**	0.985	32	254	176	165	76	130	9 - 26
	200	40	**193 131 515**	1.024	32	254	176	165	81	137	9 - 26
	200	63	**193 131 517**	1.290	35	303	181	165	100	160	9 - 26
	225	20	**193 131 522**	1.016	32	266	188	165	71	130	11 - 26

table continued on the next page

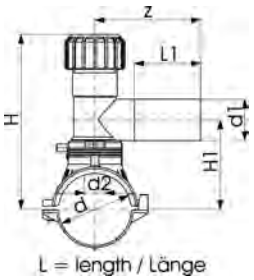


	d (mm)	d1 (mm)	Code	Weight (kg)	d2 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	z (mm)	SDR pipe
	225	25	**193 131 523**	1.025	32	266	188	165	71	130	11 - 26
	225	32	**193 131 524**	1.019	32	266	188	165	76	130	11 - 26
	225	40	**193 131 525**	1.029	32	266	188	165	81	137	11 - 26
	225	63	**193 131 527**	1.738	35	315	193	165	100	160	11 -26
	250	20	**193 131 532**	1.025	32	279	201	165	76	130	11 - 26
	250	25	**193 131 533**	1.026	32	279	201	165	76	130	11 - 26
	250	32	**193 131 534**	0.996	32	279	201	165	76	130	11 - 26
	250	40	**193 131 535**	1.008	32	279	201	165	81	137	11 - 26
	250	63	**193 131 537**	1.733	35	328	206	165	100	160	11 - 26
Topload	280	63	**193 131 547**	1.478	35	343	206	165	100	160	11 - 26
Topload	315-355	63	**193 131 557**	1.481	35	381	206	165	100	160	17 - 33
Topload	400	63	**193 131 577**	1.473	35	403	206	165	100	160	17 - 33



Tapping saddle
With 360° rotatable outlet

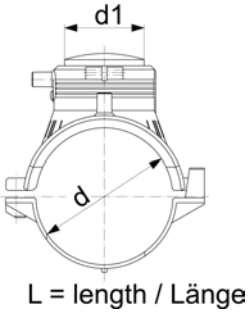
- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- With integrated cutter to tap live mains under pressure
- **Suitable to tap SDR11 pipes**
- 4 mm pin connectors
- Limited path fusion indicators
- Long fusion outlet
- O-ring-sealed screw cap



d (mm)	d1 (mm)	Code	Weight (kg)	d2 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	z (mm)	SDR pipe
315-355	63	**193 131 867**	1.473	33	328	206	165	100	160	11 - 33
400	63	**193 131 877**	1.473	33	328	206	165	100	160	11 - 33

Various parts





Repair saddle

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Complete with lower part
- 4 mm pin connectors
- Limited path fusion indicators
- Supplied as kit including Spigot Cap (753.961.011)

Topload: delivery without lower part for assembling as Top Load with tool no. 799.350.477; angle adaptor (799.350.340) for fusion cable required
* Moulded-on lower clamp

	d (mm)	d1 (mm)	Code	Weight (kg)	L (mm)	SDR pipe
	63	63	**193 130 037**	0.417	165	9 - 11
	75	63	**193 130 047**	0.574	165	9 - 11
	90	63	**193 130 057**	0.513	165	9 - 17.6
*	110	63	**193 130 067**	0.565	182	9 - 17.6
	125	63	**193 130 077**	0.622	165	9 - 17.6
	140	63	**193 130 087**	0.660	165	9 - 17.6
*	160	63	**193 130 097**	0.589	182	9 - 17.6
	180	63	**193 130 107**	0.733	165	9 - 26
	200	63	**193 130 117**	0.731	165	9 - 26
	225	63	**193 130 127**	0.708	165	9 - 26
	250	63	**193 130 137**	0.640	165	9 - 26
Topload	280	63	**193 130 147**	0.450	165	9 - 26
Topload	315 - 355	63	**193 130 157**	0.443	165	9 - 33
Topload	400	63	**193 130 177**	0.450	165	9 - 33

ELGEF Plus branch saddle

Branch saddles

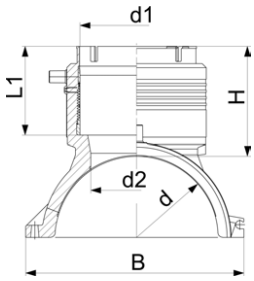


Cross connection branch saddle

- Enables the connection of two Branch Saddle as a cross
- Complete with screws, flat washers and nuts

d (mm)	Code	Weight (kg)
110 - 160	**193 280 880**	0.268
180 - 250	**193 280 881**	0.282





Branch saddle outlet 90 - 125 mm

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Saddle complete, incl. lower part and 3 screws
- Additional fixing with snatch hinge
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators

* Delivered without lower part. Pipe fixation with multiple use assembly toolno. 193.281.027

	d (mm)	d1 (mm)	Code	Weight (kg)	H (mm)	L (mm)	L1 (mm)	B (mm)	d2 (mm)	SDR pipe
	110	90	**193 135 009**	1.124	101	220	82	164	65	9-17.6
	110	110	**193 135 010**	1.224	107	220	88	164	65	9-17.6
	125	90	**193 135 019**	1.134	101	220	82	179	65	9-17.6
	125	110	**193 135 020**	1.290	107	220	88	179	65	9-17.6
*	140	90	**193 135 029**	0.982	101	220	81	195	65	9-17.6
*	140	110	**193 135 030**	1.087	107	220	87	195	65	9-17.6
	160	90	**193 135 039**	1.449	102	240	82	215	65	9-17.6
	160	110	**193 135 040**	1.582	108	240	88	215	86	9-17.6
	160	125	**193 135 041**	1.782	129	240	99	215	86	9-17.6
	180	90	**193 135 049**	1.672	102	260	82	237	65	9-17.6
	180	110	**193 135 050**	1.765	108	260	88	237	86	9-17.6
	180	125	**193 135 051**	2.015	129	260	99	237	86	9-17.6
	200	90	**193 135 059**	1.803	102	260	82	253	65	9-17.6
	200	110	**193 135 060**	1.963	108	260	88	253	86	9-17.6
	200	125	**193 135 061**	2.128	129	260	99	253	86	9-17.6
	225	90	**193 135 069**	2.006	102	260	82	287	65	9-17.6
	225	110	**193 135 070**	2.400	108	260	88	287	86	9-17.6
	225	125	**193 135 071**	2.312	129	260	99	287	86	9-17.6
	250	90	**193 135 079**	2.145	102	260	82	312	65	9-17.6
	250	110	**193 135 080**	2.258	108	260	88	312	86	9-17.6
	250	125	**193 135 081**	2.500	129	260	99	312	86	9-17.6



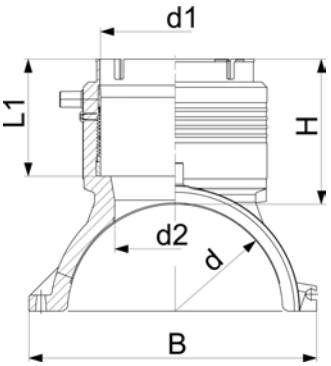
Multiple use assembly tool branch saddle d140mm

- Only to be used with Branch Saddle d140mm
- Delivered as complete Kit including screws and belt

d (mm)	Code	Weight (kg)
140	**193 281 027**	0.724

Branch saddles topload



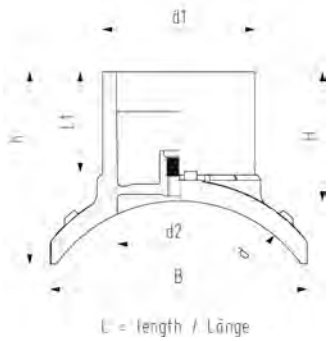


Branch saddle topload outlet 90 - 125 mm

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Saddle for assembling as Topload with tool 799.350.477; angle adaptors (799.350.340) for fusion cable required
- Electrofusion outlet with integrated pipe fixation
- Protected wire without medium contact
- 4 mm pin connectors
- Limited path fusion indicators

d (mm)	d1 (mm)	Code	Weight (kg)	H (mm)	L (mm)	L1 (mm)	B (mm)	d2 (mm)	SDR pipe
280	90	**193 135 289**	1.242	102	260	82	243	65	9-26
280	110	**193 135 290**	1.295	108	260	88	243	86	9-26
280	125	**193 135 291**	1.530	129	260	99	243	86	9-26
315 - 355	90	**193 135 309**	1.214	102	260	82	249	65	9-26
315 - 355	110	**193 135 310**	1.297	108	260	88	249	86	9-26
315 - 355	125	**193 135 311**	1.530	129	260	99	249	86	9-26
400	90	**193 135 329**	1.022	102	260	82	256	65	9-26
400	110	**193 135 330**	1.116	108	260	88	256	86	9-26
400	125	**193 135 331**	1.369	129	260	99	256	86	9-26
450	90	**193 135 339**	1.022	102	260	82	256	65	9-26
450	110	**193 135 340**	1.116	108	260	88	256	86	9-26
450	125	**193 135 341**	1.369	129	260	99	256	86	9-26
500 - 630	90	**193 135 159**	1.086	102	260	82	263	65	9-26
500 - 630	110	**193 135 160**	1.159	108	260	88	263	86	9-26
500 - 630	125	**193 135 161**	1.388	129	260	99	263	86	9-26

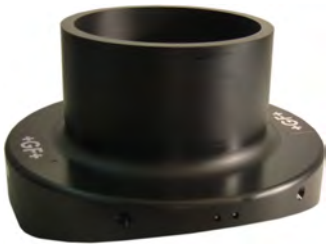


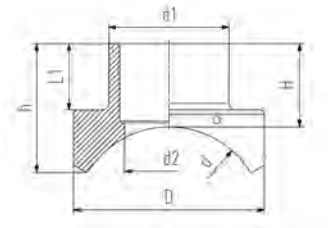


Branch saddle topload outlet 160 - 225 mm

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch Saddle installation only with installation set Topload TL225 (799.300.807)
- Angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Limited path fusion indicators
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor
- With integrated pressure test port for test cap (799.199.287)

d (mm)	d1 (mm)	Code	Weight (kg)	d2 (mm)	L (mm)	L1 (mm)	h (mm)	H (mm)	B (mm)	SDR pipe
315	160	**193 135 202**	2.548	131	322	110	212	137	270	11-26
315	225	**193 135 204**	4.625	184	366	127	306	160	301	11-26
355	160	**193 135 212**	2.348	131	322	110	206	137	270	11-26
355	225	**193 135 214**	4.594	184	366	127	319	160	313	11-26
400	160	**193 135 222**	2.623	131	322	110	198	137	290	11-26
400	225	**193 135 224**	4.612	184	366	127	329	160	303	11-26
450	160	**193 135 232**	2.429	131	322	110	194	137	290	11-26
450	225	**193 135 234**	4.301	184	366	127	329	160	324	11-26
500	160	**193 135 242**	2.690	131	322	110	186	137	303	11-26
500	225	**193 135 244**	4.569	184	366	127	344	160	341	11-26
560	160	**193 135 252**	2.495	131	322	110	183	137	303	11-26
560	225	**193 135 254**	4.321	184	366	127	344	160	341	11-26
630	160	**193 135 262**	2.616	131	322	110	177	137	305	11-33
630	225	**193 135 264**	4.750	184	366	127	353	160	349	11-33
710	160	**193 135 272**	2.504	131	322	110	172	137	305	11-33
710	225	**193 135 274**	4.360	184	366	127	352	160	350	11-33
800	160	**193 135 282**	2.399	131	366	127	168	137	305	11-33
800	225	**193 135 284**	4.553	184	366	127	359	160	357	11-33
900	225	**193 135 294**	4.390	184	366	127	359	160	356	11-33
1000	225	**193 135 304**	4.262	184	366	127	359	160	356	11-33

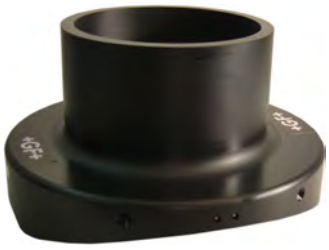


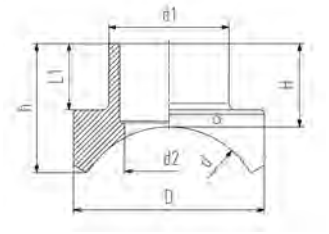


Branch saddle topload outlet 315 mm

- **PE 100 SDR 11** (ISO S5)
- 10 bar Gas / 16 bar Water
- Branch saddle installation only with installation set Topload TL500 (799.300.809)
- Angle adaptors (799.350.340) for fusion cable required
- 4 mm pin connectors
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor

d (mm)	d1 (mm)	Code	Weight (kg)	d2 (mm)	D (mm)	L (mm)	L1 (mm)	h (mm)	H (mm)	SDR pipe
450	315	**193 135 436**	18.500	232	500	500	174	346	216	11 - 26
500	315	**193 135 446**	17.000	232	500	500	174	337	216	11 - 26
560	315	**193 135 456**	16.100	232	500	500	174	327	216	11 - 26
630	315	**193 135 466**	15.950	232	500	500	174	312	216	11 - 33
710	315	**193 135 476**	14.800	232	500	500	174	297	216	11 - 33
800	315	**193 135 486**	14.300	232	500	500	174	287	216	11 - 33
900	315	**193 135 496**	13.800	232	500	500	174	281	216	11 - 33
1000	315	**193 135 506**	13.500	232	500	500	174	274	216	11 - 33





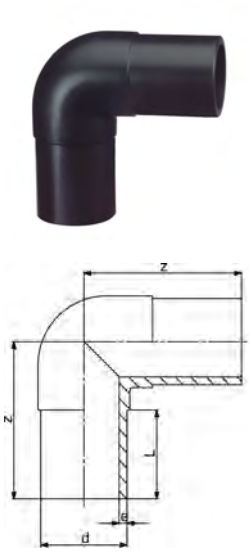
Branch saddle topload outlet 315 - 500 mm

- **PE 100 SDR 17** (ISO S8)
- 5 bar Gas / 10 bar Water
- Angle adaptors (799.350.340) for fusion cable required
- Branch saddle installation only with installation set Topload TL500 (799.300.809)
- 4 mm pin connectors
- Spigot outlet for butt- and electrofusion
- Full pressure applicable - no derating factor

d (mm)	d1 (mm)	Code	Weight (kg)	d2 (mm)	D (mm)	L (mm)	L1 (mm)	h (mm)	H (mm)	SDR pipe
710	315	**193 135 676**	14.000	250	500	500	174	296	216	11 - 33
800	315	**193 135 686**	13.500	250	500	500	174	287	216	11 - 33
900	315	**193 135 696**	13.100	250	500	500	174	282	216	11 - 33
900	500	**193 135 698**	32.600	397	700	700	237	406	280	11 - 33
1000	315	**193 135 706**	12.800	250	500	500	174	274	216	11 - 33
1000	500	**193 135 708**	31.400	397	700	700	237	397	280	11 - 33
1200	315	**193 135 716**	12.300	250	500	500	174	267	216	11 - 33
1200	500	**193 135 718**	29.400	397	700	700	237	377	280	11 - 33
1400	315	**193 135 726**	11.900	250	500	500	174	257	216	11 - 33
1400	500	**193 135 728**	28.100	397	700	700	237	362	280	11 - 33
1600	315	**193 135 736**	11.700	250	500	500	174	252	216	11 - 33
1600	500	**193 135 738**	27.100	397	700	700	237	352	280	11 - 33
2000	315	**193 135 746**	11.300	250	500	500	174	246	216	11 - 33
2000	500	**193 135 748**	25.700	397	700	700	237	337	280	11 - 33

Spigot fittings in PE100

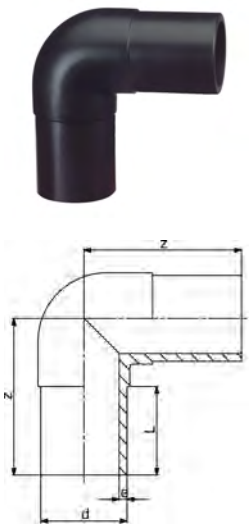
Elbows



Elbow 90° PE 100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

d (mm)	Code	Weight (kg)	z (mm)	L (mm)	e (mm)
20	**753 101 006**	0.027	75	52	3.0
25	**753 101 007**	0.040	80	52	3.0
32	**753 101 008**	0.056	85	54	3.0
40	**753 101 009**	0.089	95	57	3.7
50	**753 101 010**	0.156	105	63	4.6
63	**753 101 011**	0.274	115	65	5.8
75	**753 101 012**	0.414	130	72	6.8
90	**753 101 013**	0.704	150	81	8.2
110	**753 101 014**	1.158	165	86	10.0
125	**753 101 015**	1.609	180	92	11.4
140	**753 101 016**	2.270	194	92	12.7
160	**753 101 017**	3.100	210	102	14.6
180	**753 101 018**	4.328	232	107	16.4
200	**753 101 019**	5.739	253	117	18.2
225	**753 101 020**	7.775	270	122	20.5
250	**753 101 001**	10.506	292	130	22.7
280	**753 100 922**	15.059	320	140	25.4
315	**753 100 923**	21.960	370	150	28.6

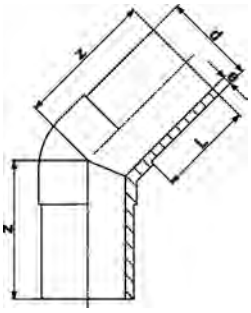


Elbow 90° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water

d (mm)	Code	Weight (kg)	z (mm)	L (mm)	e (mm)
90	**753 100 813**	0.543	150	81	5.4
110	**753 100 814**	0.876	165	86	6.6
125	**753 100 815**	0.927	180	93	7.4
140	**753 100 816**	1.547	194	92	8.3
160	**753 100 817**	2.385	210	102	9.5
180	**753 100 818**	3.205	232	107	10.7
200	**753 100 819**	4.298	253	115	11.9
225	**753 100 820**	5.864	270	120	13.4
250	**753 100 821**	8.000	292	130	14.8
280	**753 100 822**	11.328	320	140	16.6
315	**753 100 823**	15.877	370	150	18.7



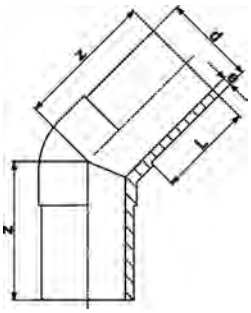


Elbow 45° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

d (mm)	Code	Weight (kg)	z (mm)	L (mm)	e (mm)
20	**753 151 006**	0.027	70	52	3.0
25	**753 151 007**	0.037	75	52	3.0
32	**753 151 008**	0.050	80	54	3.0
40	**753 151 009**	0.086	85	57	3.7
50	**753 151 010**	0.133	90	63	4.6
63	**753 151 011**	0.227	95	65	5.8
75	**753 151 012**	0.350	105	72	6.8
90	**753 151 013**	0.565	120	81	8.2
110	**753 151 014**	0.921	130	86	10.0
125	**753 151 015**	1.290	140	92	11.4
140	**753 151 016**	1.796	164	120	12.7
160	**753 151 017**	2.454	162	102	14.6
180	**753 151 018**	3.274	170	107	16.4
200	**753 151 019**	4.362	186	116	18.2
225	**753 151 020**	5.981	200	123	20.5
250	**753 151 021**	8.283	220	130	22.7
280	**753 150 922**	10.285	230	140	25.4
315	**753 150 923**	14.124	250	150	28.6



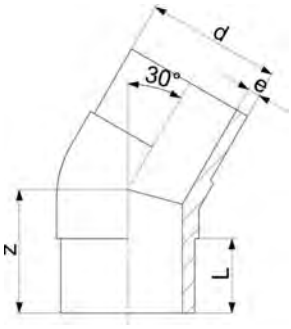


Elbow 45° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water

d (mm)	Code	Weight (kg)	z (mm)	L (mm)	e (mm)
90	**753 150 813**	0.411	120	81	5.4
110	**753 150 814**	0.686	130	86	6.6
125	**753 150 815**	0.948	140	92	7.4
140	**753 150 816**	1.259	164	120	8.3
160	**753 150 817**	1.901	162	102	9.5
180	**753 150 818**	2.386	170	107	10.7
200	**753 150 819**	3.153	186	116	11.9
225	**753 150 820**	4.441	205	123	13.4
250	**753 150 821**	6.012	217	130	14.8
280	**753 150 822**	7.489	230	140	16.6
315	**753 150 823**	10.123	250	150	18.7



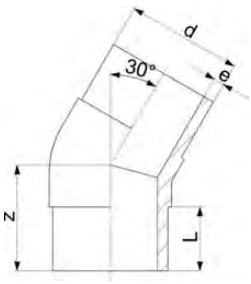


Elbow 30° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- Welded design

d (mm)	Code	Weight (kg)	z (mm)	L (mm)	e (mm)
32	**753 120 908**	0.530	70	54	3.0
40	**753 120 909**	0.530	80	57	3.7
50	**753 120 910**	0.121	80	63	4.6
63	**753 120 911**	0.207	80	65	5.8
75	**753 120 912**	0.311	90	72	6.8
90	**753 120 913**	0.510	100	81	8.2
110	**753 120 914**	0.840	105	86	10.0
125	**753 120 915**	1.174	115	92	11.4
140	**753 120 916**	1.760	135	92	12.7
160	**753 120 917**	2.155	130	102	14.6
180	**753 120 918**	2.911	140	107	16.4
200	**753 120 919**	3.892	150	116	18.2
225	**753 120 920**	5.332	165	123	20.5
250	**753 120 921**	7.307	190	130	22.7
280	**753 120 922**	10.600	200	139	25.4
315	**753 120 923**	12.775	200	150	28.6





Elbow 30° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- Welded design

d (mm)	Code	Weight (kg)	z (mm)	L (mm)	e (mm)
90	**753 120 813**	0.363	110	81	5.4
110	**753 120 814**	0.607	115	86	6.6
125	**753 120 815**	0.819	125	92	7.4
140	**753 120 816**	1.112	150	92	8.3
160	**753 120 817**	1.526	140	102	9.5
180	**753 120 818**	2.040	150	107	10.7
200	**753 120 819**	2.780	160	116	11.9
225	**753 120 820**	3.798	180	123	13.4
250	**753 120 821**	5.039	200	130	14.8
280	**753 120 822**	8.100	200	139	16.6
315	**753 120 823**	8.655	220	150	18.7

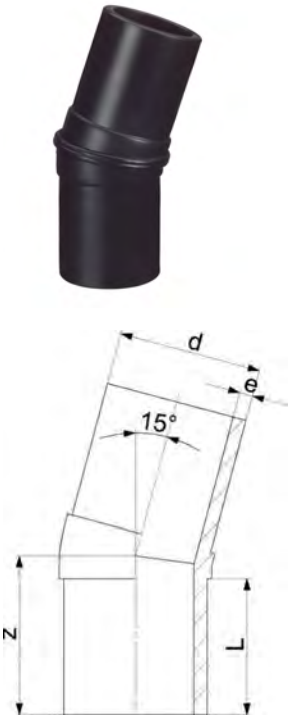
Elbow 15° type L PE100 SDR11



- Long spigot version
- 10 bar Gas / 16 bar Water
- Welded design

d (mm)	Code	Weight (kg)	z (mm)	L (mm)	e (mm)
32	**753 141 008**	0.051	70	54	3
40	**753 141 009**	0.082	80	57	4
50	**753 141 010**	0.118	80	63	5
63	**753 141 011**	0.200	80	65	6
75	**753 141 012**	0.290	90	72	7
90	**753 141 013**	0.479	100	81	8
110	**753 141 014**	0.785	105	86	10
125	**753 141 015**	1.063	115	92	11
140	**753 141 016**	1.600	135	92	13
160	**753 141 017**	2.170	130	102	15
180	**753 141 018**	2.653	140	107	16
200	**753 141 019**	3.438	150	116	18
225	**753 141 020**	4.765	165	123	21
250	**753 141 021**	8.300	190	130	23
280	**753 141 022**	8.322	200	139	25
315	**753 141 023**	11.292	200	150	29

Elbow 15° PE100 SDR17/17,6

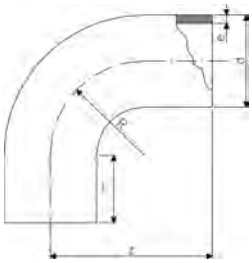


- Long spigot version
- 5 bar Gas / 10 bar Water
- Welded design

d (mm)	Code	Weight (kg)	z (mm)	L (mm)	e (mm)
90	**753 140 813**	0.337	100	81	5
110	**753 140 814**	0.551	105	86	7
125	**753 140 815**	0.728	115	92	7
140	**753 140 816**	0.370	135	92	8
160	**753 140 817**	1.364	130	102	10
180	**753 140 818**	2.040	140	107	11
200	**753 140 819**	2.371	150	116	12
225	**753 140 820**	3.335	165	123	13
250	**753 140 821**	5.830	190	130	15
280	**753 140 822**	8.100	195	139	17
315	**753 140 823**	7.528	200	150	19

Bends





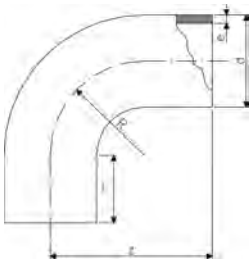
Bend 90° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

* Made out of seamless pipe. This shall not be shortened.

	d (mm)	Code	Weight (kg)	z (mm)	L (mm)	R (mm)	e (mm)
	32	**753 001 008**	0.042	78	46	32	2.9
	40	**753 001 009**	0.090	91	49	40	3.7
	50	**753 001 010**	0.160	107	55	50	4.6
	63	**753 001 011**	0.280	130	63	63	5.8
	75	**753 001 012**	0.464	152	70	75	6.8
	90	**753 001 013**	0.530	168	79	90	8.2
	110	**753 001 014**	1.282	193	82	110	10.0
	125	**753 001 015**	1.290	216	87	125	11.4
	140	**753 001 016**	2.230	232	92	140	12.7
	160	**753 001 017**	3.424	258	98	160	14.6
	180	**753 001 018**	5.000	290	105	180	16.4
	200	**753 001 019**	6.925	317	112	200	18.2
	225	**753 001 020**	9.770	350	120	225	20.5
	250	**753 001 021**	9.230	375	130	250	22.7
	280	**753 001 022**	15.487	430	150	280	25.4
	315	**753 001 023**	23.950	470	150	315	28.6
*	355	**753 001 024**	53.300	900	250	533	32.3
*	400	**753 001 025**	71.900	980	250	600	36.4
*	450	**753 001 026**	97.300	1070	250	675	40.9
	450	**753 001 126**	69.120	645	195	450	40.9
*	500	**753 001 027**	134.000	1200	280	750	45.5
	500	**753 001 127**	91.040	710	212	500	45.5
*	560	**753 001 028**	179.300	1290	280	840	50.9
*	630	**753 001 029**	243.200	1400	280	945	57.3





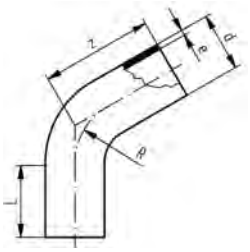
Bend 90° PE100 SDR17

- Long spigot version
- 5 bar Gas / 10 bar Water

* Made out of seamless pipe. This shall not be shortened.

	d (mm)	Code	Weight (kg)	L (mm)	R (mm)	z (mm)	e (mm)
	90	**753 000 813**	0.520	79	90	168	5.4
	110	**753 000 814**	0.942	82	110	193	6.6
	125	**753 000 815**	1.300	87	125	216	7.4
	140	**753 000 816**	1.789	92	140	232	8.3
	160	**753 000 817**	2.410	98	160	258	9.5
	180	**753 000 818**	4.000	105	180	290	10.7
	200	**753 000 819**	6.500	112	200	317	11.9
	225	**753 000 820**	6.414	120	225	350	13.4
	250	**753 000 821**	9.940	130	250	375	14.8
	280	**753 000 822**	13.795	150	280	430	16.6
	315	**753 000 823**	24.000	150	315	470	18.7
*	355	**753 000 824**	36.700	250	533	900	21.1
*	400	**753 000 825**	49.700	250	600	980	23.7
*	450	**753 000 826**	66.600	250	675	1070	26.7
	450	**753 000 926**	50.720	195	450	645	26.7
*	500	**753 000 827**	87.400	280	750	1200	29.7
	500	**753 000 927**	66.940	212	500	710	29.7
*	560	**753 000 828**	116.000	280	840	1290	33.2
*	630	**753 000 829**	159.600	280	945	1400	37.4



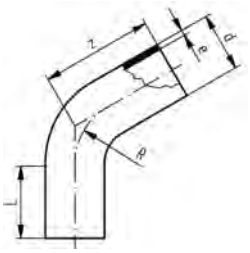


Bend 60° PE100 SDR11

- Made out of seamless pipe
- Long spigot version
- 10 bar Gas / 16 bar Water
- Bends made out of seamless pipe shall not be shortened

d (mm)	Code	Weight (kg)	R (mm)	L (mm)	z (mm)	e (mm)
32	**753 071 008**	0.070	48	80	128	2.9
40	**753 071 009**	0.120	60	80	135	3.7
50	**753 071 010**	0.240	75	100	158	4.6
63	**753 071 011**	0.420	95	100	173	5.8
75	**753 071 012**	0.600	113	100	182	6.8
90	**753 071 013**	0.900	135	100	193	8.2
110	**753 071 014**	1.780	165	150	270	10.0
125	**753 071 015**	2.500	188	150	283	11.4
140	**753 071 016**	2.700	210	150	296	12.7
160	**753 071 017**	4.574	240	150	313	14.6
180	**753 071 018**	4.900	270	150	330	16.4
200	**753 071 019**	6.400	300	150	348	18.2
225	**753 071 020**	8.600	338	150	370	20.5
250	**753 071 021**	14.500	375	250	500	22.7
280	**753 071 022**	19.100	420	250	530	25.4
315	**753 071 023**	25.600	473	250	612	28.6
355	**753 071 024**	41.700	533	300	690	32.3
400	**753 071 025**	55.800	600	300	730	36.4
450	**753 071 026**	76.000	675	300	780	40.9
500	**753 071 027**	104.600	750	350	880	45.5
560	**753 071 028**	139.500	840	350	930	50.9
630	**753 071 029**	188.500	945	350	1000	57.3



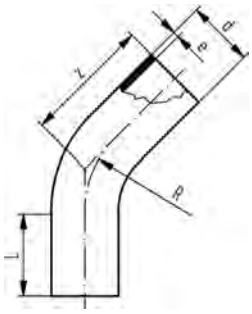


Bend 60° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened

d (mm)	Code	Weight (kg)	e (mm)	R (mm)	z (mm)	L (mm)
90	**753 070 813**	0.600	5.4	135	193	100
110	**753 070 814**	1.280	6.6	165	270	150
125	**753 070 815**	1.300	7.4	187	283	150
140	**753 070 816**	1.800	8.3	210	296	150
160	**753 070 817**	3.160	9.5	240	313	150
180	**753 070 818**	3.190	10.7	270	330	150
200	**753 070 819**	4.200	11.9	300	348	150
225	**753 070 820**	5.600	13.4	337	370	150
250	**753 070 821**	9.250	14.8	375	500	250
280	**753 070 822**	15.000	16.6	420	530	250
315	**753 070 823**	19.500	18.7	472	612	250
355	**753 070 824**	30.100	21.1	532	690	300
400	**753 070 825**	38.200	23.7	600	730	300
450	**753 070 826**	53.700	26.7	675	780	300
500	**753 070 827**	73.900	29.7	750	880	350
560	**753 070 828**	98.200	33.2	840	930	350
630	**753 070 829**	132.300	37.4	945	1000	350



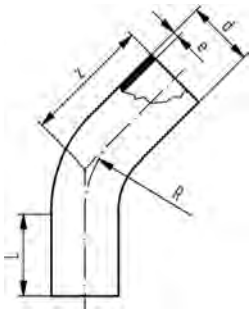


Bend 45° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened

d (mm)	Code	Weight (kg)	e (mm)	z (mm)	R (mm)	L (mm)
32	**753 051 008**	0.077	2.9	120	48	80
40	**753 051 009**	0.120	3.7	120	60	80
50	**753 051 010**	0.240	4.6	149	75	100
63	**753 051 011**	0.360	5.8	161	95	100
75	**753 051 012**	0.560	6.8	168	113	100
90	**753 051 013**	0.760	8.2	177	135	100
110	**753 051 014**	1.700	10.0	243	165	150
125	**753 051 015**	2.186	11.4	253	188	150
140	**753 051 016**	2.800	12.7	262	210	150
160	**753 051 017**	3.800	14.6	274	240	160
180	**753 051 018**	5.140	16.4	287	270	150
200	**753 051 019**	7.058	18.2	299	300	150
225	**753 051 020**	7.400	20.5	315	338	150
250	**753 051 021**	13.000	22.7	440	375	250
280	**753 051 022**	22.000	25.4	460	420	250
315	**753 051 023**	24.930	28.6	535	473	250
355	**753 051 024**	39.500	32.3	620	533	300
400	**753 051 025**	48.500	36.4	650	600	300
450	**753 051 026**	69.800	40.9	680	675	300
500	**753 051 027**	96.300	45.5	760	750	350
560	**753 051 028**	129.800	50.9	800	840	350
630	**753 051 029**	174.000	57.3	870	945	350



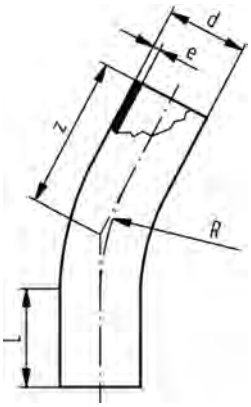


Bend 45° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened

d (mm)	Code	Weight (kg)	R (mm)	e (mm)	z (mm)	L (mm)
90	**753 050 813**	0.600	135	5.4	177	100
110	**753 050 814**	1.208	165	6.6	243	150
125	**753 050 815**	1.540	188	7.4	253	150
140	**753 050 816**	1.720	210	8.3	262	150
160	**753 050 817**	2.200	240	9.5	274	150
180	**753 050 818**	3.000	270	10.7	287	150
200	**753 050 819**	3.700	300	11.9	299	150
225	**753 050 820**	5.000	338	13.4	315	150
250	**753 050 821**	10.691	375	14.8	440	250
280	**753 050 822**	15.000	420	16.6	460	250
315	**753 050 823**	17.800	473	18.7	535	250
355	**753 050 824**	25.600	533	21.1	620	300
400	**753 050 825**	36.600	600	23.7	650	300
450	**753 050 826**	45.300	675	26.7	680	300
500	**753 050 827**	62.400	750	29.7	760	350
560	**753 050 828**	81.900	840	33.2	800	350
630	**753 050 829**	197.000	945	37.4	870	350



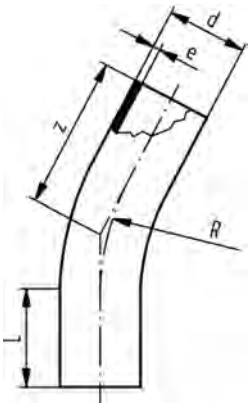


Bend 30° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened

d (mm)	Code	Weight (kg)	L (mm)	z (mm)	e (mm)	R (mm)
32	**753 061 008**	0.077	80	113	2.9	48
40	**753 061 009**	0.120	80	116	3.7	60
50	**753 061 010**	0.200	100	140	4.6	75
63	**753 061 011**	0.400	100	150	5.8	95
75	**753 061 012**	0.520	100	155	6.8	113
90	**753 061 013**	0.760	100	160	8.2	135
110	**753 061 014**	1.689	150	219	10.0	165
125	**753 061 015**	2.096	150	225	11.4	188
140	**753 061 016**	2.200	150	231	12.7	210
160	**753 061 017**	3.650	150	239	14.6	240
180	**753 061 018**	4.782	150	247	16.4	270
200	**753 061 019**	5.777	150	255	18.2	300
225	**753 061 020**	6.300	150	266	20.5	338
250	**753 061 021**	13.100	250	385	22.7	375
280	**753 061 022**	16.300	250	400	25.4	420
315	**753 061 023**	21.850	250	460	28.6	473
355	**753 061 024**	34.900	300	540	32.3	533
400	**753 061 025**	45.900	300	560	36.4	600
450	**753 061 026**	60.200	300	580	40.9	675
500	**753 061 027**	83.300	350	630	45.5	750
560	**753 061 028**	108.600	350	680	50.9	840
630	**753 061 029**	148.300	350	730	57.3	945



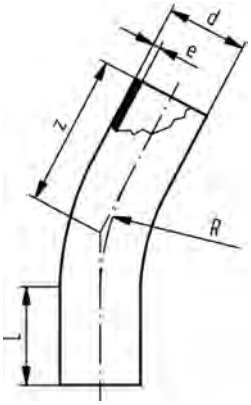


Bend 30° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened

d (mm)	Code	Weight (kg)	z (mm)	L (mm)	R (mm)	e (mm)
90	**753 060 813**	0.500	160	100	135	5.4
110	**753 060 814**	1.060	219	150	165	6.6
125	**753 060 815**	1.100	225	150	188	7.4
140	**753 060 816**	1.720	231	150	210	8.3
160	**753 060 817**	2.565	239	150	240	9.5
180	**753 060 818**	3.389	247	150	270	10.7
200	**753 060 819**	4.213	255	150	300	11.9
225	**753 060 820**	7.540	266	150	338	13.4
250	**753 060 821**	11.600	385	250	375	14.8
280	**753 060 822**	12.800	400	250	420	16.6
315	**753 060 823**	25.000	460	250	473	18.7
355	**753 060 824**	22.700	540	300	533	21.1
400	**753 060 825**	29.800	560	300	600	23.7
450	**753 060 826**	39.100	580	300	675	26.7
500	**753 060 827**	54.000	650	350	750	29.7
560	**753 060 828**	70.300	680	350	840	33.2
630	**753 060 829**	95.800	730	350	945	37.4



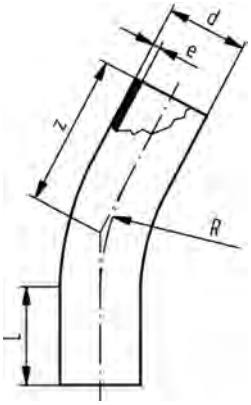


Bend 22° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened

d (mm)	Code	Weight (kg)	z (mm)	L (mm)	R (mm)	e (mm)
32	**753 081 008**	0.077	113	80	48	2.9
40	**753 081 009**	0.120	116	80	60	3.7
50	**753 081 010**	0.200	140	100	75	4.6
63	**753 081 011**	0.400	150	100	95	5.8
75	**753 081 012**	0.520	155	100	113	6.8
90	**753 081 013**	0.760	160	100	135	8.2
110	**753 081 014**	1.500	219	150	165	10.0
125	**753 081 015**	2.000	225	150	188	11.4
140	**753 081 016**	2.200	231	150	210	12.7
160	**753 081 017**	3.300	239	150	240	14.6
180	**753 081 018**	3.700	247	150	270	16.4
200	**753 081 019**	4.750	255	150	300	18.2
225	**753 081 020**	6.300	266	150	338	20.5
250	**753 081 021**	14.015	385	250	375	22.7
280	**753 081 022**	18.510	400	250	420	25.4
315	**753 081 023**	21.845	460	250	473	28.6
355	**753 081 024**	34.900	540	300	533	32.3
400	**753 081 025**	45.900	560	300	600	36.4
450	**753 081 026**	60.200	580	300	675	40.9
500	**753 081 027**	83.300	650	350	750	45.5
560	**753 081 028**	108.600	680	350	840	50.9
630	**753 081 029**	148.300	730	350	945	57.3



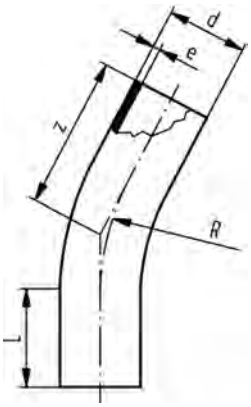


Bend 22° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened

d (mm)	Code	Weight (kg)	R (mm)	e (mm)	z (mm)	L (mm)
90	**753 080 813**	0.500	135	5	160	100
110	**753 080 814**	1.060	165	7	219	150
125	**753 080 815**	1.100	188	7	225	150
140	**753 080 816**	1.720	210	8	231	150
160	**753 080 817**	1.900	240	10	239	150
180	**753 080 818**	3.318	270	11	247	150
200	**753 080 819**	3.200	300	12	255	150
225	**753 080 820**	5.431	338	13	266	150
250	**753 080 821**	9.904	375	15	385	250
280	**753 080 822**	12.800	420	17	400	250
315	**753 080 823**	14.144	473	19	460	250
355	**753 080 824**	22.700	533	21	540	300
400	**753 080 825**	29.800	600	24	560	300
450	**753 080 826**	39.100	675	27	580	300
500	**753 080 827**	54.000	750	30	650	350
560	**753 080 828**	70.300	840	33	680	350
630	**753 080 829**	95.800	945	37	730	350



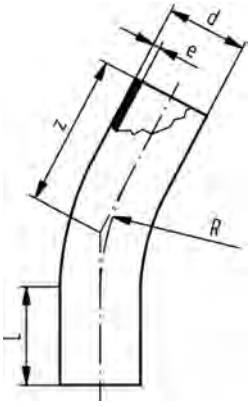


Bend 11° PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened

d (mm)	Code	Weight (kg)	L (mm)	e (mm)	z (mm)	R (mm)
32	**753 091 008**	0.077	80	3	113	48
40	**753 091 009**	0.120	80	4	116	60
50	**753 091 010**	0.200	100	5	140	75
63	**753 091 011**	0.400	100	6	150	95
75	**753 091 012**	0.520	100	7	155	113
90	**753 091 013**	0.760	100	8	160	135
110	**753 091 014**	1.500	150	10	219	165
125	**753 091 015**	2.000	150	11	225	188
140	**753 091 016**	2.200	150	13	231	210
160	**753 091 017**	3.300	150	15	239	240
180	**753 091 018**	3.700	150	16	247	270
200	**753 091 019**	4.750	150	18	255	300
225	**753 091 020**	7.773	150	21	266	338
250	**753 091 021**	13.100	250	23	385	375
280	**753 091 022**	16.300	250	25	400	420
315	**753 091 023**	21.845	250	29	460	473
355	**753 091 024**	34.900	300	32	540	533
400	**753 091 025**	45.900	300	36	560	600
450	**753 091 026**	60.200	300	41	580	675
500	**753 091 027**	83.300	350	46	650	750
560	**753 091 028**	108.600	350	51	680	840
630	**753 091 029**	148.300	350	57	730	945





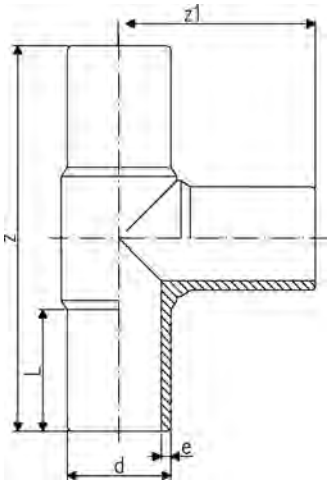
Bend 11° PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water
- Made out of seamless pipe
- Bends made out of seamless pipe shall not be shortened

d (mm)	Code	Weight (kg)	z (mm)	L (mm)	R (mm)	e (mm)
90	**753 090 813**	0.500	160	100	135	5
110	**753 090 814**	1.060	219	150	165	7
125	**753 090 815**	1.100	225	150	188	7
140	**753 090 816**	1.720	231	150	210	8
160	**753 090 817**	2.653	239	150	240	10
180	**753 090 818**	2.500	247	150	270	11
200	**753 090 819**	4.308	255	150	300	12
225	**753 090 820**	7.540	266	150	338	13
250	**753 090 821**	11.600	385	250	375	15
280	**753 090 822**	12.800	400	250	420	17
315	**753 090 823**	25.000	460	250	473	19
355	**753 090 824**	22.700	540	300	533	21
400	**753 090 825**	29.800	560	300	600	24
450	**753 090 826**	39.100	580	300	675	27
500	**753 090 827**	54.000	650	350	750	30
560	**753 090 828**	70.300	680	350	840	33
630	**753 090 829**	95.800	730	350	945	37

Tees





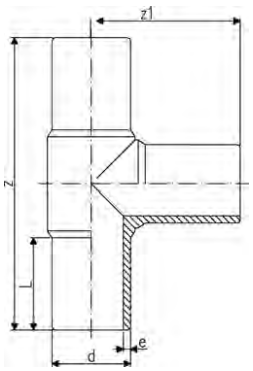
Tee 90° equal PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

* Machined with welded pipes

d (mm)	Code	Weight (kg)	z (mm)	z1 (mm)	L (mm)	e (mm)
20	**753 201 006**	0.038	150	75	52	3.0
25	**753 201 007**	0.054	160	80	52	3.0
32	**753 201 008**	0.077	170	85	54	3.0
40	**753 201 009**	0.130	190	95	57	3.7
50	**753 201 010**	0.214	210	105	63	4.6
63	**753 201 011**	0.376	230	115	65	5.8
75	**753 201 012**	0.599	264	132	72	6.8
90	**753 201 013**	1.021	300	150	81	8.2
110	**753 201 014**	1.612	330	165	86	10.0
125	**753 201 015**	2.420	366	183	92	11.4
140	**753 201 016**	3.090	393	193	92	12.7
160	**753 201 017**	4.403	420	210	102	14.6
180	**753 201 018**	6.014	460	230	107	16.4
200	**753 201 019**	8.480	500	250	117	18.2
225	**753 201 020**	11.507	540	270	122	20.5
250	**753 201 001**	14.099	575	288	130	22.7
280	**753 200 902**	18.670	615	308	139	25.4
315	**753 200 903**	26.150	695	346	150	28.6
355	**753 200 024**	38.900	820	410	170	32.3
400	**753 200 025**	53.400	900	450	190	36.4
450	**753 200 026**	73.400	980	490	200	40.9
500	**753 200 027**	98.500	1070	535	220	45.5
560	**753 200 028**	142.000	1200	600	245	50.9
630	**753 200 029**	205.500	1300	650	265	57.3





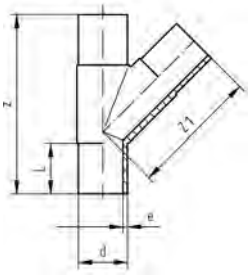
Tee 90° equal PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water

* Machined with welded pipes

d (mm)	Code	Weight (kg)	z (mm)	z1 (mm)	L (mm)	e (mm)
90	**753 200 813**	0.777	300	150	80	5.4
110	**753 200 814**	1.231	330	165	86	6.6
125	**753 200 815**	1.690	366	183	92	7.4
140	**753 200 816**	2.202	396	196	92	8.3
160	**753 200 817**	3.201	428	214	104	9.5
180	**753 200 818**	4.287	460	230	105	10.7
200	**753 200 819**	5.889	500	250	115	11.9
225	**753 200 820**	7.886	540	270	122	13.4
250	**753 200 821**	10.000	575	288	130	14.8
280	**753 200 802**	13.350	615	308	139	16.6
315	**753 200 803**	17.985	695	346	150	18.7
355	**753 200 124**	26.100	820	410	170	21.1
400	**753 200 125**	35.700	900	450	190	23.7
450	**753 200 126**	49.400	980	490	200	26.7
500	**753 200 127**	66.100	1070	535	220	29.7
560	**753 200 128**	139.000	1200	600	245	50.9
630	**753 200 129**	132.000	1300	650	265	57.3



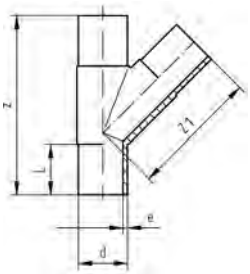


Tee 45° equal PE100 SDR11

- 10 bar Gas / 16 bar Water
- Long spigot version

d (mm)	Code	Weight (kg)	z (mm)	z1 (mm)	L (mm)	e (mm)
50	**753 251 010**	0.300	218	139	56	4.6
63	**753 251 011**	0.440	255	158	63	6.2
75	**753 251 012**	0.800	301	190	70	6.8
90	**753 251 013**	1.373	368	234	79	8.2
110	**753 251 014**	1.800	395	260	82	10.0



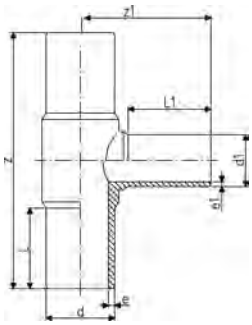


Tee 45° equal PE100 SDR17/17,6

- 5 bar Gas / 10 bar Water
- Long spigot version

d (mm)	Code	Weight (kg)	z (mm)	z1 (mm)	L (mm)	e (mm)
90	**753 251 063**	0.800	368	234	79	5.4
110	**753 251 064**	1.400	395	260	82	6.6



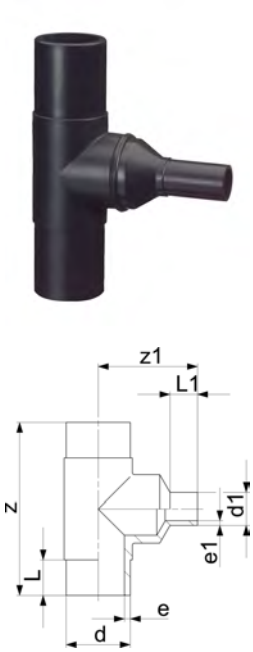


Tee 90° reduced PE100 SDR11

Model:

- moulded
- 10 bar Gas / 16 bar Water
- Long spigot version

d (mm)	d1 (mm)	Code	Weight (kg)	z (mm)	z1 (mm)	L (mm)	L1 (mm)	e (mm)	e1 (mm)
63	32	**753 201 022**	0.300	218	86	65	47	5.8	3.0
63	40	**753 201 026**	0.312	230	107	67	58	5.8	3.7
63	50	**753 201 021**	0.300	218	100	65	59	5.8	4.6
75	32	**753 201 023**	0.455	248	98	73	46	6.8	3.0
75	50	**753 201 024**	0.485	248	109	73	58	6.8	4.6
75	63	**753 201 025**	0.520	248	118	73	65	6.8	5.8
90	50	**753 201 027**	0.794	280	120	79	55	8.2	4.6
90	63	**753 201 029**	0.775	282	127	79	63	8.2	5.8
90	75	**753 201 055**	0.800	286	132	80	75	8.2	6.8
110	63	**753 201 028**	1.409	322	148	87	63	10.0	5.8
110	75	**753 201 031**	1.221	305	148	83	68	10.0	6.8
110	90	**753 201 032**	1.275	322	164	86	79	10.0	8.2
125	90	**753 201 048**	1.717	332	168	109	89	11.4	8.2
125	110	**753 201 033**	1.909	340	167	90	83	11.4	10.0
160	63	**753 201 034**	2.680	416	174	105	65	14.6	5.8
160	75	**753 201 035**	2.676	344	179	101	76	14.6	6.8
160	90	**753 201 036**	2.775	415	190	101	79	14.6	8.2
160	110	**753 201 037**	3.300	415	200	101	82	14.6	10.0
180	90	**753 201 049**	4.410	420	200	136	97	16.4	8.2
180	110	**753 201 050**	4.379	430	206	145	101	16.4	10.0
180	160	**753 201 038**	4.715	414	203	105	94	16.4	14.6
200	63	**753 201 073**	7.300	503	196	122	63	18.2	5.8
200	90	**753 201 074**	9.730	500	216	122	79	18.2	8.2
200	110	**753 201 075**	7.120	505	219	122	82	18.2	10.0
200	160	**753 201 076**	9.730	500	237	122	98	18.2	14.6
225	75	**753 201 039**	9.880	560	219	120	70	20.5	6.8
225	90	**753 201 040**	6.633	555	228	120	80	20.5	8.2
225	110	**753 201 041**	10.010	559	238	120	82	20.5	10.0
225	160	**753 201 042**	8.095	555	258	120	98	20.5	14.6
225	180	**753 201 043**	9.375	559	284	120	105	20.5	16.4
250	110	**753 201 078**	11.820	584	284	130	82	22.7	10.0
250	160	**753 201 079**	12.302	586	266	127	98	22.7	14.6
315	110	**753 201 051**	15.300	705	282	150	82	28.6	10.0
315	160	**753 201 052**	22.998	705	301	150	102	28.6	14.6
315	225	**753 201 053**	20.011	658	335	170	145	28.6	20.5
315	250	**753 201 054**	24.243	695	331	150	130	28.6	22.7



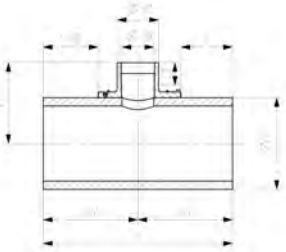
Tee 90° reduced PE100 SDR11

Model:

- with welded reducer
- 10 bar Gas / 16 bar Water
- Long spigot version

d (mm)	d1 (mm)	Code	Weight (kg)	z1 (mm)	z (mm)	L (mm)	L1 (mm)	e (mm)	e1 (mm)
25	20	**753 201 002**	0.053		160	52	52	3.0	3.0
32	20	**753 201 003**	0.094	105	170	54	52	3.0	3.0
32	25	**753 201 004**	0.098	110	170	54	52	3.0	3.0
40	20	**753 201 005**	0.124	120	190	57	52	3.7	3.0
40	25	**753 201 069**	0.160	120	190	57	52	3.7	3.0
40	32	**753 201 070**	0.160	120	190	57	52	3.7	3.0
50	20	**753 201 072**	0.252	140	210	63	52	4.6	3.0
50	25	**753 201 077**	0.203	130	210	63	52	4.6	3.0
50	32	**753 201 080**	0.207	130	210	63	53	4.6	3.0
50	40	**753 201 081**	0.224	130	210	63	57	4.6	3.7
75	40	**753 201 084**	0.603	180	264	72	57	6.8	3.7
125	63	**753 201 085**	2.359	225	366	92	61	11.4	5.8
125	75	**753 201 086**	2.434	235	366	92	72	11.4	6.8
140	75	**753 201 087**	3.038	230	396	92	70	12.7	6.8
140	90	**753 201 089**	3.092	235	396	92	79	12.7	8.2
140	110	**753 201 090**	3.208	240	396	92	82	12.7	10.0
140	125	**753 201 091**	4.170	240	396	92	90	12.7	11.4
160	125	**753 201 092**	4.544	265	420	102	92	14.6	11.4
160	140	**753 201 093**	5.895	270	420	102	96	14.6	12.7
180	125	**753 201 094**	6.111	285	460	107	92	16.4	11.4
180	140	**753 201 095**	6.317	295	460	107	110	16.4	12.7
200	125	**753 201 096**	8.424	295	500	117	92	18.2	11.4
200	140	**753 201 097**	10.570	310	500	117	110	18.2	12.7
200	180	**753 201 098**	9.031	310	500	117	110	18.2	16.4
225	125	**753 201 099**	11.260	320	540	122	92	20.5	11.4
225	140	**753 201 100**	14.574	335	540	122	110	20.5	12.7
225	200	**753 201 101**	14.925	340	540	122	117	20.5	18.2
250	180	**753 201 102**	14.327	350	576	130	105	22.7	16.4
250	200	**753 201 103**	19.220	360	576	130	112	22.7	18.2
250	225	**753 201 104**	15.240	390	576	130	120	22.7	20.5
280	200	**753 201 105**	24.520	420	616	139	112	25.4	18.2
280	225	**753 201 106**	21.755	420	616	139	120	25.4	20.5
280	250	**753 201 107**	21.055	420	616	139	130	25.4	22.7
315	200	**753 201 108**	33.672	470	690	150	134	28.6	18.2
315	280	**753 201 109**	34.950	480	690	150	139	28.6	25.4
355	250	**753 201 110**	48.900	530	818	165	130	32.3	22.7
355	280	**753 201 111**	49.300	480	818	165	139	32.3	25.4
355	315	**753 201 112**	49.690	480	818	165	150	32.3	28.6
400	280	**753 201 113**	52.915	530	910	180	139	36.4	25.4
400	315	**753 201 114**	53.625	580	910	180	150	36.4	28.6
400	355	**753 201 115**	54.075	675	910	180	165	36.4	32.3



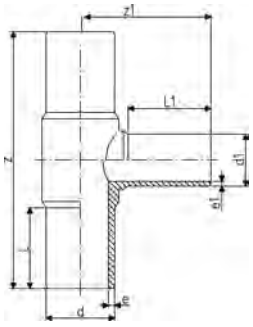


Tee 90° reduced with welded saddle PE100 SDR11

- 10 bar Gas / 16 bar Water
- Long spigot version

d (mm)	d1 (mm)	Code	Weight (kg)	z (mm)	z1 (mm)	L (mm)	L1 (mm)	d2 (mm)
315	225	**753 201 404**	22.570	702	318	168	127	172
355	90	**753 201 356**	27.729	818	410	279	81	70
355	110	**753 201 357**	28.204	818	410	279	86	90
355	125	**753 201 358**	28.820	818	410	279	92	90
355	160	**753 201 412**	26.450	732	315	205	110	123
355	225	**753 201 414**	28.500	732	338	183	127	172
400	90	**753 201 359**	38.213	910	455	325	81	70
400	110	**753 201 360**	38.763	910	455	325	86	90
400	125	**753 201 361**	39.393	910	455	325	92	90
400	160	**753 201 422**	34.150	762	337	220	110	123
400	225	**753 201 424**	36.170	762	360	198	127	172
450	90	**753 201 362**	50.936	970	485	355	81	70
450	110	**753 201 363**	51.516	970	485	355	86	90
450	125	**753 201 364**	52.173	970	485	355	92	90
450	160	**753 201 432**	44.420	792	362	235	110	123
450	225	**753 201 434**	46.440	792	385	213	127	172
500	90	**753 201 365**	68.151	1060	530	400	81	70
500	110	**753 201 366**	68.774	1060	530	400	86	90
500	125	**753 201 367**	69.472	1060	530	400	92	90
500	160	**753 201 442**	66.510	980	387	329	110	123
500	225	**753 201 444**	68.450	980	410	307	127	172
560	90	**753 201 368**	120.536	1510	755	625	81	70
560	110	**753 201 369**	121.384	1510	755	625	86	90
560	125	**753 201 370**	122.278	1510	755	625	92	90
560	160	**753 201 452**	85.020	1010	417	344	110	123
560	225	**753 201 454**	86.970	1010	440	322	127	172
630	90	**753 201 371**	163.834	1630	815	685	81	70
630	110	**753 201 372**	164.742	1630	815	685	86	90
630	125	**753 201 373**	165.688	1630	815	685	92	90
630	160	**753 201 462**	111.120	1050	452	364	110	123
630	225	**753 201 464**	113.250	1050	475	342	127	172



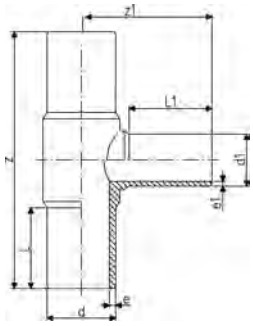


Tee 90° reduced PE100 SDR17/17.6

- moulded
- Long spigot version
- 5 bar Gas / 10 bar Water

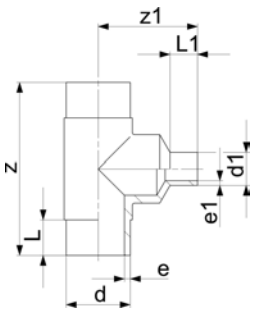
d (mm)	d1 (mm)	Code	Weight (kg)	z (mm)	z1 (mm)	L (mm)	L1 (mm)	e (mm)	e1 (mm)
90	50	**753 201 827**	0.630	275	117	79	55	5.4	3.0
90	63	**753 200 829**	0.560	275	123	79	63	5.4	3.8
90	75	**753 201 855**	0.580	286	132	80	75	5.4	4.5
110	63	**753 200 828**	1.010	318	147	82	63	6.6	3.8
110	75	**753 200 831**	0.891	315	152	84	70	6.6	4.5
110	90	**753 200 832**	0.941	318	158	82	79	6.6	5.4
125	110	**753 200 833**	1.399	334	168	84	83	7.4	6.6
160	63	**753 200 834**	2.554	330	130	86	63	9.5	3.8
160	75	**753 200 835**	1.932	343	180	98	74	9.5	4.5
160	90	**753 200 836**	1.972	410	188	98	79	9.5	5.4
160	110	**753 200 837**	2.716	410	195	98	82	9.5	6.6
180	90	**753 200 844**	3.250	422	204	134	97	10.7	5.4
180	160	**753 200 838**	3.557	411	205	105	94	10.7	9.5
200	63	**753 201 873**	6.800	500	190	122	63	11.9	3.8
200	90	**753 201 874**	6.900	500	207	122	79	11.9	5.4
200	110	**753 201 875**	5.097	500	215	122	82	11.9	6.6

table continued on the next page



d (mm)	d1 (mm)	Code	Weight (kg)	z (mm)	z1 (mm)	L (mm)	L1 (mm)	e (mm)	e1 (mm)
200	160	**753 201 876**	7.400	500	234	122	98	11.9	9.5
225	75	**753 200 839**	7.128	555	277	120	70	13.4	4.5
225	90	**753 200 840**	4.732	555	226	127	80	13.4	5.4
225	110	**753 200 841**	4.700	555	235	127	82	13.4	6.6
225	160	**753 200 842**	5.922	555	253	127	98	13.4	9.5
225	180	**753 200 843**	7.211	550	280	120	105	13.4	10.7
250	110	**753 201 878**	8.185	575	242	130	82	14.8	6.6
250	160	**753 201 879**	9.800	575	261	130	98	14.8	9.5
315	110	**753 200 851**	15.621	695	277	150	82	18.7	6.6
315	160	**753 200 852**	12.200	695	296	150	102	18.7	9.5
315	225	**753 200 853**	14.869	650	335	170	145	18.7	13.4
315	250	**753 200 854**	15.500	695	325	150	130	18.7	14.8





Tee 90° reduced PE100 SDR17/17.6

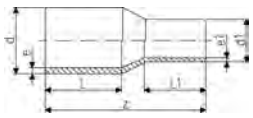
Model:

- with welded reducer
- 5 bar Gas / 10 bar Water
- Long spigot version

d (mm)	d1 (mm)	Code	Weight (kg)	z (mm)	z1 (mm)	L1 (mm)	L (mm)	e (mm)	e1 (mm)
125	63	**753 200 801**	1.752	366	215	61	92	7	4
125	75	**753 200 810**	1.806	366	235	72	92	7	5
125	90	**753 200 811**	1.712	366	235	80	92	7	5
140	75	**753 200 812**	2.820	396	240	70	92	8	5
140	90	**753 200 822**	2.211	396	240	78	92	8	5
140	110	**753 200 823**	2.266	396	235	82	92	8	7
140	125	**753 200 824**	2.317	396	240	87	92	8	7
160	125	**753 200 825**	3.311	428	265	90	104	10	5
160	140	**753 200 826**	3.416	428	280	96	104	10	8
180	110	**753 200 827**	4.410	460	285	92	105	11	7
180	125	**753 200 845**	4.460	460	285	90	105	11	7
180	140	**753 200 846**	4.483	460	305	110	105	11	8
200	125	**753 200 847**	5.886	500	310	92	115	12	7
200	140	**753 200 848**	7.200	500	315	110	115	12	8
200	180	**753 200 849**	6.900	500	315	110	115	12	11
225	125	**753 200 850**	7.937	540	320	92	122	13	7
225	140	**753 200 855**	8.780	540	345	110	122	13	8
225	200	**753 200 856**	9.064	540	335	115	122	13	12
250	180	**753 200 857**	15.000	576	340	105	130	15	11
250	200	**753 200 858**	15.440	576	350	112	130	15	12
250	225	**753 200 859**	15.620	576	370	120	130	15	13
280	200	**753 200 860**	19.200	616	400	112	139	17	12
280	225	**753 200 861**	19.500	616	400	120	139	17	13
280	250	**753 200 862**	20.120	616	400	130	139	17	15
315	200	**753 200 863**	18.700	690	480	134	150	19	12
315	280	**753 200 864**	26.940	690	480	139	150	19	17
355	250	**753 200 865**	35.770	818	480	130	165	21	15
355	280	**753 200 866**	36.330	818	480	139	165	21	17
355	315	**753 200 867**	37.740	818	490	150	165	21	19
400	280	**753 200 868**	48.330	910	540	139	180	24	17
400	315	**753 200 869**	48.880	910	580	150	180	24	19
400	355	**753 200 870**	50.020	910	675	165	180	24	21

Reducers



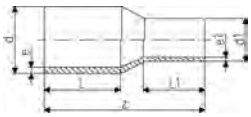


Reducer PE100 SDR11

- Long spigot version
- 10 bar Gas / 16 bar Water

d (mm)	d1 (mm)	Code	Weight (kg)	z (mm)	L (mm)	L1 (mm)	e (mm)	e1 (mm)
25	20	**753 901 038**	0.022	115	53	52	3.0	3,0
32	20	**753 901 042**	0.027	122	55	53	3.0	3,0
32	25	**753 901 041**	0.033	122	55	53	3.0	3,0
40	20	**753 901 048**	0.043	127	56	50	3.7	3,0
40	25	**753 901 047**	0.045	128	55	50	3.7	3,0
40	32	**753 901 046**	0.047	128	55	52	3.7	3,0
50	20	**753 901 055**	0.064	147	62	50	4.6	3,0
50	25	**753 901 054**	0.069	139	62	50	4.6	3,0
50	32	**753 901 053**	0.067	140	62	54	4.6	3,0
50	40	**753 901 052**	0.079	138	62	55	4.6	3,7
63	32	**753 901 060**	0.113	150	65	53	5.8	3,0
63	40	**753 901 059**	0.122	150	65	57	5.8	3,7
63	50	**753 901 058**	0.128	150	65	62	5.8	4,6
75	40	**753 901 063**	0.185	170	72	51	6.8	3,7
75	50	**753 901 064**	0.188	170	72	65	6.8	4,6
75	63	**753 901 065**	0.209	170	72	65	6.8	5,8
90	50	**753 901 072**	0.289	190	81	61	8.2	4,6
90	63	**753 901 071**	0.316	190	81	65	8.2	5,8
90	75	**753 901 070**	0.330	190	81	72	8.2	6,8
110	63	**753 901 078**	0.487	205	85	65	10.0	5,8
110	75	**753 901 077**	0.501	205	84	72	10.0	6,8
110	90	**753 901 076**	0.549	205	85	81	10.0	8,2
125	63	**753 901 083**	0.607	214	88	65	11.4	5,8
125	75	**753 901 082**	0.667	210	89	72	11.4	6,8
125	90	**753 901 081**	0.683	211	89	81	11.4	8,2
125	110	**753 901 080**	0.775	211	90	84	11.4	10,0
140	75	**753 901 086**	0.910	237	113	77	12.7	6,8
140	90	**753 901 087**	0.954	237	114	86	12.7	8,2
140	110	**753 901 084**	0.977	232	104	93	12.7	10,0
140	125	**753 901 085**	1.078	232	102	100	12.7	11,4
160	90	**753 901 088**	1.164	244	100	81	14.6	8,2
160	110	**753 901 090**	1.239	242	100	85	14.6	10,0
160	125	**753 901 089**	1.333	240	100	89	14.6	11,4
160	140	**753 901 032**	1.522	255	110	104	14.6	12,7
180	90	**753 901 073**	1.507	245	105	81	16.4	8,2
180	110	**753 901 074**	1.833	277	124	94	16.4	10,0
180	125	**753 901 091**	1.723	258	108	92	16.4	11,4
180	140	**753 901 075**	1.976	278	124	113	16.4	12,7
180	160	**753 901 033**	1.968	255	107	102	16.4	14,6
200	140	**753 901 066**	2.326	282	123	114	18.2	12,7
200	160	**753 901 092**	2.435	252	104	120	18.2	14,6
200	180	**753 901 034**	2.724	279	124	120	18.2	16,4
225	140	**753 901 067**	2.900	295	132	115	20.5	12,7
225	160	**753 901 096**	2.891	278	120	98	20.5	14,6
225	180	**753 901 095**	3.244	297	128	120	20.5	16,4
225	200	**753 901 094**	3.538	280	124	117	20.5	18,2
250	160	**753 901 000**	2.385	309	150	97	22.7	14,6
250	180	**753 901 068**	4.299	312	150	106	22.7	16,4
250	200	**753 901 001**	4.766	327	155	115	22.7	18,2
250	225	**753 901 002**	2.385	332	130	120	22.7	20,5
280	200	**753 901 098**	6.850	347	140	115	25.4	18,2
280	225	**753 901 099**	6.112	340	140	122	25.4	20,5
280	250	**753 901 003**	2.385	320	137	133	25.4	22,7
315	200	**753 901 004**	7.522	375	170	128	28.6	18,2
315	225	**753 901 097**	7.790	375	150	123	28.6	20,5

table continued on the next page



d (mm)	d1 (mm)	Code	Weight (kg)	z (mm)	L (mm)	L1 (mm)	e (mm)	e1 (mm)
315	250	**753 901 005**	8.360	375	150	132	28.6	22,7
315	280	**753 901 012**	8.800	375	150	144	28.6	25,4
355	250	**753 901 013**	9.100	390	165	130	32.3	22,7
355	280	**753 901 014**	9.500	390	165	139	32.3	25,4
355	315	**753 901 015**	9.900	390	165	150	32.3	28,6
400	280	**753 901 016**	10.420	415	180	139	36.4	25,4
400	315	**753 901 017**	11.130	415	180	150	36.4	28,6
400	355	**753 901 018**	11.600	420	180	165	36.4	32,3
450	280	**753 901 019**	16.200	389	195	139	40.9	25,4
450	315	**753 901 020**	16.700	390	195	150	40.9	28,6
450	355	**753 901 022**	17.500	393	195	164	40.9	32,3
450	400	**753 901 024**	18.500	395	195	179	40.9	36,4
500	315	**753 901 025**	21.900	422	212	150	45.5	28,6
500	355	**753 901 026**	22.600	424	212	164	45.5	32,3
500	400	**753 901 027**	23.600	426	212	179	45.5	36,4
500	450	**753 901 029**	25.100	428	212	195	45.5	40,9
560	355	**753 901 030**	30.100	459	230	164	50.9	32,3
560	400	**753 901 039**	31.000	461	230	179	50.9	36,4
560	450	**753 901 040**	32.400	463	230	195	50.9	40,9
560	500	**753 901 043**	34.100	466	230	212	50.9	45,5
630	400	**753 901 044**	41.900	502	250	179	57.3	36,4
630	450	**753 901 045**	43.100	503	250	195	57.3	40,9
630	500	**753 901 049**	44.700	506	250	212	57.3	45,5
630	560	**753 901 050**	46.800	506	250	230	57.3	50,9

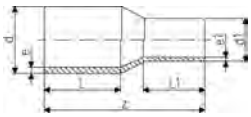
Reducer PE100 SDR17/17,6



- Long spigot version
- 5 bar Gas / 10 bar Water

d (mm)	d1 (mm)	Code	Weight (kg)	z (mm)	L1 (mm)	L (mm)	e (mm)	e1 (mm)
90	63	**753 900 872**	0.224	182	70	79	5.4	3,8
90	75	**753 900 870**	0.234	185	70	79	5.4	4,5
110	63	**753 900 877**	0.326	185	63	82	6.6	3,8
110	90	**753 900 876**	0.333	205	80	85	6.6	5,4
125	63	**753 900 882**	0.610	200	63	87	7.4	3,8
125	90	**753 900 881**	0.461	215	80	90	7.4	5,4
125	110	**753 900 880**	0.507	215	85	90	7.4	6,6
140	75	**753 900 886**	0.560	230	70	112	8.3	4,5
140	90	**753 900 887**	0.642	230	79	112	8.3	5,4
140	110	**753 900 884**	0.715	230	82	112	8.3	6,6
140	125	**753 900 885**	0.754	235	87	115	8.3	7,4
160	90	**753 900 888**	0.752	248	85	120	9.5	5,4
160	110	**753 900 890**	0.930	245	85	100	9.5	6,6
160	125	**753 900 889**	0.930	245	90	100	9.5	7,4
160	140	**753 900 831**	0.995	260	110	120	9.5	8,3
180	90	**753 900 873**	1.010	237	79	105	10.7	5,4
180	110	**753 900 874**	1.600	270	92	120	10.7	6,6
180	125	**753 900 891**	1.165	255	90	105	10.7	7,4
180	140	**753 900 875**	1.720	270	110	120	10.7	8,3
180	160	**753 900 832**	2.100	255	100	105	10.7	9,5
200	140	**753 900 866**	1.800	275	110	120	11.9	8,3
200	160	**753 900 892**	1.664	265	100	115	11.9	9,5
200	180	**753 900 893**	2.580	265	105	115	11.9	10,7
225	140	**753 900 867**	2.021	280	100	120	13.4	8,3
225	160	**753 900 896**	2.020	280	100	120	13.4	9,5
225	180	**753 900 895**	2.240	280	105	120	13.4	10,7
225	200	**753 900 894**	2.237	280	115	120	13.4	11,9
250	160	**753 900 800**	2.850	290	100	130	14.8	9,5
250	180	**753 900 868**	3.100	295	105	130	14.8	10,7
250	200	**753 900 801**	3.210	302	112	130	14.8	11,9
250	225	**753 900 802**	2.385	332	120	162	14.8	13,4
280	200	**753 900 898**	3.800	333	112	140	16.6	11,9
280	225	**753 900 899**	4.062	335	120	140	16.6	13,4
280	250	**753 900 803**	4.352	340	130	140	16.6	14,8
315	200	**753 900 804**	5.390	380	134	180	18.7	11,9
315	225	**753 900 807**	6.200	365	120	150	18.7	13,4
315	250	**753 900 805**	6.420	365	130	150	18.7	14,8
315	280	**753 900 806**	5.940	365	140	150	18.7	16,6
355	250	**753 900 808**	7.082	390	130	165	21.1	14,8
355	280	**753 900 809**	6.728	390	140	165	21.1	16,6
355	315	**753 900 810**	7.240	390	150	165	21.1	18,7
400	280	**753 900 811**	7.930	415	140	180	23.7	16,6
400	315	**753 900 812**	9.949	415	150	180	23.7	18,7
400	355	**753 900 813**	9.620	420	165	180	23.7	21,1
450	280	**753 900 814**	11.500	389	140	195	26.7	16,6
450	315	**753 900 815**	11.805	390	150	195	26.7	18,7
450	355	**753 900 816**	11.900	393	164	195	26.7	21,1
450	400	**753 900 817**	12.964	395	179	195	26.7	23,7
500	315	**753 900 818**	15.500	422	150	212	29.7	18,7
500	355	**753 900 819**	15.700	424	164	212	29.7	21,1
500	400	**753 900 820**	16.200	426	179	212	29.7	23,7
500	450	**753 900 821**	17.000	428	195	212	29.7	26,7
560	355	**753 900 822**	21.400	459	164	230	33.2	21,1
560	400	**753 900 823**	21.700	461	179	230	33.2	23,7
560	450	**753 900 824**	22.300	463	195	230	33.2	26,7
560	500	**753 900 825**	23.200	466	212	230	33.2	29,7
630	400	**753 900 826**	29.700	502	179	250	37.4	23,7
630	450	**753 900 827**	30.100	503	195	250	37.4	26,7

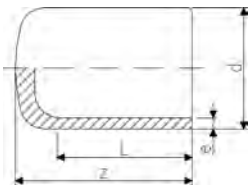
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d (mm)	d1 (mm)	Code	Weight (kg)	z (mm)	L1 (mm)	L (mm)	e (mm)	e1 (mm)
630	500	**753 900 828**	30.800	506	212	250	37.4	29,7
630	560	**753 900 829**	31.900	506	230	250	37.4	33,3
710	500	**753 900 833**	58.796	790	300	300	42.1	29,7
710	560	**753 900 834**	60.578	770	300	300	42.1	33,2
710	630	**753 900 835**	62.448	740	300	300	42.1	37,4
800	560	**753 900 836**	75.842	800	300	300	47.4	33,2
800	630	**753 900 837**	78.255	780	300	300	47.4	37,4
800	710	**753 900 838**	80.504	750	300	300	47.4	42,1
900	630	**753 900 839**	99.282	820	300	300	53.3	37,4
900	710	**753 900 840**	100.908	790	300	300	53.3	42,1
900	800	**753 900 841**	103.578	760	300	300	53.3	47,4
1000	710	**753 900 842**	124.232	820	300	300	59.3	42,1
1000	800	**753 900 843**	125.277	780	300	300	59.3	47,4
1000	900	**753 900 844**	126.638	740	300	300	59.3	53,3

Caps





Cap PE100 SDR11

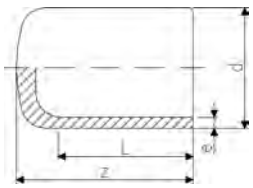
- Long spigot version
- 10 bar Gas / 16 bar Water

Note:

* Fabricated fitting made from pipe

	d (mm)	Code	Weight (kg)	z (mm)	L (mm)	e (mm)
	20	**753 961 006**	0.010	52	52	3.0
	25	**753 961 007**	0.015	52	52	3.0
	32	**753 961 008**	0.020	54	54	3.0
	40	**753 961 009**	0.033	57	57	3.7
	50	**753 961 010**	0.054	63	63	4.6
	63	**753 961 011**	0.086	65	65	5.8
	75	**753 961 012**	0.146	80	72	6.8
	90	**753 961 013**	0.240	90	81	8.2
	110	**753 961 014**	0.373	98	86	10.0
	125	**753 961 015**	0.546	105	92	11.4
	140	**753 961 016**	0.727	136	92	12.7
	160	**753 961 017**	1.034	120	102	14.6
	180	**753 961 018**	1.351	128	107	16.4
	200	**753 961 019**	1.845	138	115	18.2
	225	**753 961 020**	2.514	148	122	20.5
	250	**753 961 021**	3.927	205	130	22.7
	280	**753 960 922**	5.045	235	139	25.4
	315	**753 960 923**	6.861	255	150	28.6
*	355	**753 960 924**	9.780	280	165	32.3
*	400	**753 960 925**	13.370	310	180	36.4
*	450	**753 960 926**	20.800	275	195	40.9
*	500	**753 960 927**	28.400	297	212	45.5
*	560	**753 960 928**	39.100	325	230	50.9
*	630	**753 960 929**	59.700	355	250	57.3





Cap PE100 SDR17/17,6

- Long spigot version
- 5 bar Gas / 10 bar Water

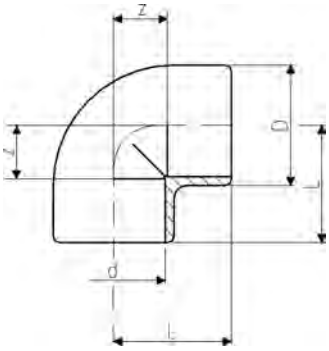
Note:

* Fabricated fitting made from pipe

	d (mm)	Code	Weight (kg)	z (mm)	L (mm)	e (mm)
	50	**753 960 810**	0.036	70	55	3.0
	63	**753 960 811**	0.058	82	63	3.8
	75	**753 960 812**	0.105	92	70	4.5
	90	**753 960 813**	0.214	90	81	5.4
	110	**753 960 814**	0.272	98	86	6.6
	125	**753 960 815**	0.487	105	92	7.4
	140	**753 960 816**	0.481	136	92	8.3
	160	**753 960 817**	0.920	120	102	9.5
	180	**753 960 818**	1.216	128	107	10.7
	200	**753 960 819**	1.687	138	115	11.9
	225	**753 960 820**	2.265	148	122	13.4
	250	**753 960 821**	2.547	205	130	14.8
	280	**753 960 822**	3.523	235	139	16.6
	315	**753 960 823**	4.758	255	150	18.7
	355	**753 960 824**	6.510	280	165	21.1
	400	**753 960 825**	9.347	310	180	23.7
*	450	**753 960 826**	17.798	265	195	26.7
*	500	**753 960 827**	21.400	287	212	29.7
*	560	**753 960 828**	29.400	310	230	33.2
*	630	**753 960 829**	41.400	340	250	37.4
*	710	**753 960 830**	53.950	310	190	42.1
*	800	**753 960 831**	73.281	320	190	47.4
*	900	**753 960 832**	98.923	330	190	53.5
*	1000	**753 960 833**	123.925	340	190	59.3

ecoFIT socket fusion fittings





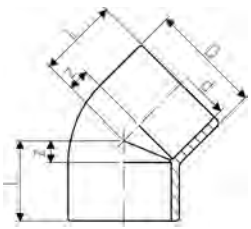
ecoFIT elbow 90°

Model:

- Material: PE80

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	z (mm)
20	10	**733 100 106**	0.022	31	28	14
25	10	**733 100 107**	0.031	36	32	16
32	10	**733 100 108**	0.048	44	38	20
40	10	**733 100 109**	0.078	54	44	24
50	10	**733 100 110**	0.129	66	51	28
63	10	**733 100 111**	0.228	82	62	35
75	10	**733 100 112**	0.311	93	76	45
90	10	**733 100 113**	0.498	110	88	53
110	10	**733 100 114**	0.864	134	106	65





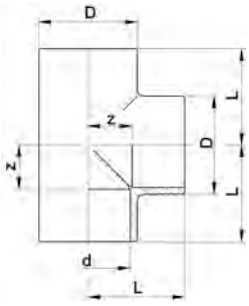
ecoFIT elbow 45°

Model:

- Material: PE80

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	z (mm)
20	10	**733 150 106**	0.018	31	21	7
25	10	**733 150 107**	0.026	36	24	8
32	10	**733 150 108**	0.043	44	28	10
40	10	**733 150 109**	0.061	53	33	13
50	10	**733 150 110**	0.087	64	36	13
63	10	**733 150 111**	0.184	82	43	16
75	10	**733 150 112**	0.229	93	51	20
90	10	**733 150 113**	0.357	114	58	23
110	10	**733 150 114**	0.653	134	68	27





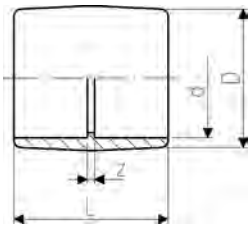
ecoFIT tee 90° equal

Model:

- Material: PE80

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	z (mm)
20	10	**733 200 106**	0.028	31	28	14
25	10	**733 200 107**	0.041	36	32	16
32	10	**733 200 108**	0.060	44	38	20
40	10	**733 200 109**	0.100	54	44	24
50	10	**733 200 110**	0.166	66	51	28
63	10	**733 200 111**	0.298	82	62	35
75	10	**733 200 112**	0.409	93	76	45
90	10	**733 200 113**	0.749	114	88	53
110	10	**733 200 114**	1.112	134	106	65





ecoFIT socket equal

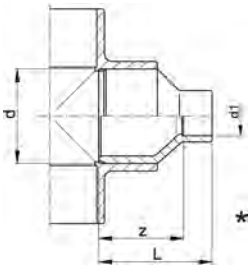
Model:

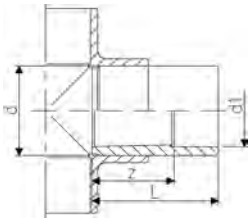
- Material: PE80

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	z (mm)
20	10	**733 910 106**	0.014	31	35	7
25	10	**733 910 107**	0.018	36	39	7
32	10	**733 910 108**	0.027	44	43	7
40	10	**733 910 109**	0.043	54	48	8
50	10	**733 910 110**	0.074	66	54	8
63	10	**733 910 111**	0.124	82	62	8
75	10	**733 910 112**	0.152	93	70	8
90	10	**733 910 113**	0.234	112	81	11
110	10	**733 910 114**	0.419	134	96	14

ecoFIT reducer







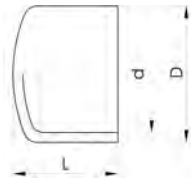
Model:

- Material: PE80
- With socket fusion spigot and fusion socket metric

	d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	L (mm)	z (mm)
	25	20	10	**733 910 337**	0.013	39	23
	32	25	10	**733 910 341**	0.021	43	27
*	40	20	10	**733 910 348**	0.023	48	34
*	40	25	10	**733 910 347**	0.027	48	32
	40	32	10	**733 910 346**	0.032	48	30
*	50	32	10	**733 910 353**	0.042	54	36
	50	40	10	**733 910 352**	0.049	54	34
*	63	20	10	**733 910 362**	0.057	64	50
*	63	25	10	**733 910 361**	0.060	64	48
*	63	32	10	**733 910 360**	0.065	64	46
*	63	40	10	**733 910 359**	0.070	64	44
	63	50	10	**733 910 358**	0.086	64	41
	75	63	10	**733 910 364**	0.103	62	35
*	90	63	10	**733 910 371**	0.180	88	62
	90	75	10	**733 910 370**	0.144	70	39
	110	90	10	**733 910 376**	0.254	81	45

ecoFIT end cap





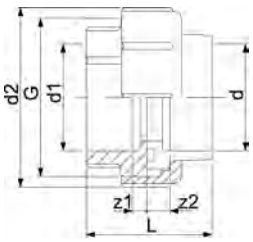
Model:

- Material: PE80

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)
20	10	**733 960 106**	0.010	30	27
25	10	**733 960 107**	0.016	36	30
32	10	**733 960 108**	0.025	44	34
40	10	**733 960 109**	0.038	53	38
50	10	**733 960 110**	0.061	65	44
63	10	**733 960 111**	0.097	80	51
75	10	**733 960 112**	0.150	91	66
90	10	**733 960 113**	0.274	111	77
110	10	**733 960 114**	0.405	137	93

ecoFIT unions for socket fusion





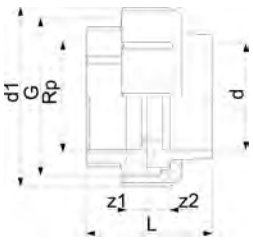
ecoFIT adapter union metric

Model:

- Material: PE80
- Union End: Fusion socket, PE80 metric
- Union bush: brass with fusion socket insert, PE80 metric
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)

d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	G (inch)	L (mm)	z1 (mm)	D2 (mm)	d2 (mm)	z2 (mm)
20	20	10	**733 580 106**	0.163	1 1/4	46	6	46	46	3
25	25	10	**733 580 107**	0.214	1 1/2	49	6	52	52	3
32	32	10	**733 580 108**	0.294	2	51	6	64	64	3
40	40	10	**733 580 109**	0.473	2 1/2	56	8	79	79	3
50	50	10	**733 580 110**	0.491	2 2/3	61	8	85	85	3
63	63	10	**733 580 111**	0.730	3 1/2	69	8	104	104	3





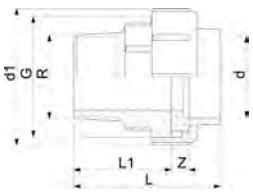
ecoFIT adaptor union metric Rp

Model:

- Material: PE80/brass
- Union End: Fusion socket, PE80 metric
- Union bush: nickel-plated, parallel female thread Rp
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)

d (mm)	Rp (inch)	PN (bar)	Code	Weight (kg)	G (inch)	d1 (mm)	L (mm)	z1 (mm)	z2 (mm)
20	½	10	**733 580 206**	0.209	1 1/4	46	46	6	10
25	¾	10	**733 580 207**	0.269	1 1/2	52	48	6	9
32	1	10	**733 580 208**	0.376	2	64	51	6	8
40	1 ¼	10	**733 580 209**	0.596	2 1/2	79	56	8	7
50	1 ½	10	**733 580 210**	0.666	2 3/4	85	59	8	7
63	2	10	**733 580 211**	0.960	3 1/2	104	65	8	5





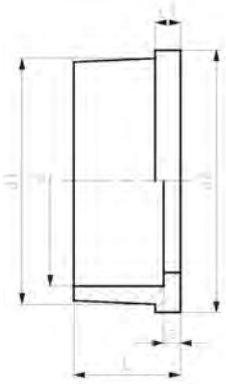
ecoFIT adaptor union metric R

Model:

- Material: PE80/brass
- Union End: Fusion socket, PE80 metric
- Union bush: nickel-plated, taper male thread R
- Union Nut: brass
- Gasket: O-ring NBR (Nitrile-rubber)

d (mm)	R (inch)	PN (bar)	Code	Weight (kg)	d1 (mm)	G (inch)	L (mm)	L1 (mm)	z (mm)
20	½	10	**733 580 706**	0.260	46	1 1/4	62	40	6
25	¾	10	**733 580 707**	0.324	52	1 1/2	65	41	6
32	1	10	**733 580 708**	0.470	64	2	71	45	6
40	1 ¼	10	**733 580 709**	0.754	79	2 1/2	78	48	8
50	1 ½	10	**733 580 710**	0.781	85	2 3/4	81	43	8
63	2	10	**733 580 711**	1.166	104	3 1/2	91	54	8





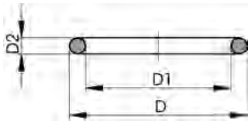
ecoFIT union end

Model:

- Material: PE80
- With fusion socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 514

d (mm)	PN (bar)	Code	Weight (kg)	d1 (mm)	d2 (mm)	L (mm)	L1 (mm)	z (mm)
20	10	**734 600 106**	0.006	28	30	19	5	5
25	10	**734 600 107**	0.013	36	39	21	5	5
32	10	**734 600 108**	0.015	42	45	23	6	5
40	10	**734 600 109**	0.026	53	57	25	6	5
50	10	**734 600 110**	0.027	59	63	28	7	5
63	10	**734 600 111**	0.044	74	79	32	8	5





O-Ring gasket

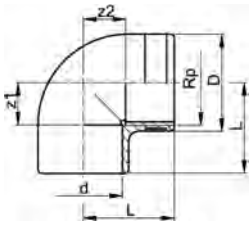
Model:

- Suitable for flange adaptor with groove
- Hardness approx. 65° Shore

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	closest inch (inch)
16	10	**748 410 000**	0.002	**749 410 000**	0.005	25.70	18.64	3.53	⅜
20	15	**748 410 001**	0.002	**749 410 001**	0.002	30.46	23.40	3.53	½
25	20	**748 410 007**	0.002	**749 410 007**	0.002	35.23	28.17	3.53	¾
32	25	**748 410 002**	0.003	**749 410 002**	0.003	43.16	36.10	3.53	1
40	32	**748 410 003**	0.004	**749 410 003**	0.002	54.50	43.82	5.34	1 ¼
50	40	**748 410 012**	0.004	**749 410 012**	0.008	64.02	53.34	5.34	1 ½
63	50	**748 410 013**	0.006	**749 410 013**	0.011	79.90	69.22	5.34	2
75	65	**748 410 014**	0.007	**749 410 014**	0.012	92.60	81.92	5.34	2 ½
90	80	**748 410 015**	0.008	**749 410 015**	0.015	111.68	101.00	5.34	3
110	100	**748 410 016**	0.016	**749 410 016**	0.031	134.00	120.20	6.99	4
125	100	**748 410 017**	0.018			149.90	135.90	6.99	
140	125	**748 410 018**	0.020			165.80	151.80	6.99	5
160	150	**748 410 019**	0.025			184.15	170.17	6.99	6
200	200	**748 410 163**	0.029			235.60	221.60	6.99	8
225	200	**748 410 022**	0.034			254.70	240.70	6.99	8
250	250	**748 410 182**	0.036			280.10	266.10	6.99	9
280	250	**748 410 173**	0.042			305.50	291.50	6.99	10
315	300	**748 410 174**	0.047			356.30	342.30	6.99	12

ecoFIT adaptor fittings for socket fusion





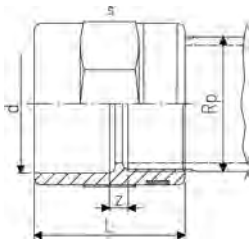
ecoFIT elbow 90° metric Rp

Model:

- Material: PE80
- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	z1 (mm)	z2 (mm)
20	½	10	**733 100 206**	0.024	30	28	14	14
25	¾	10	**733 100 207**	0.033	35	32	16	16
32	1	10	**733 100 208**	0.061	44	38	20	20
40	1 ¼	10	**733 100 209**	0.094	54	44	24	24





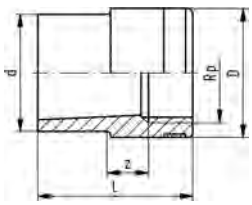
ecoFIT adaptor socket metric Rp

Model:

- Material: PE80
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- With fusion socket metric and parallel female thread Rp, reinforced
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Rp (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)	z (mm)
20	½	10	**733 910 206**	0.020	35	32	7
25	¾	10	**733 910 207**	0.026	39	36	7
32	1	10	**733 910 208**	0.042	45	46	7
40	1 ¼	10	**733 910 209**	0.068	53	55	7
50	1 ½	10	**733 910 210**	0.098	54	65	9
63	2	10	**733 910 211**	0.155	62	80	9





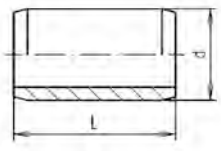
ecoFIT reducing bush metric Rp

Model:

- Material: PE80
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes
- With fusion spigot metric and BSP parallel female thread, reinforced

d (mm)	Rp (inch)	PN (bar)	Code	Weight (kg)	L (mm)	z (mm)
20	⅜	10	**733 910 434**	0.012	33	7
25	½	10	**733 910 437**	0.015	37	6
32	¾	10	**733 910 441**	0.028	43	8
40	1	10	**733 910 446**	0.046	49	9
50	1 ¼	10	**733 910 452**	0.071	55	10





ecoFIT barrel nipple metric

Model:

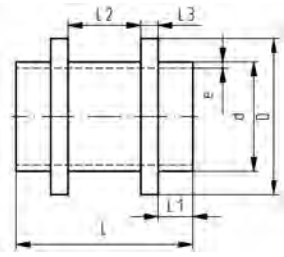
- Material: PE100
- With fusion spigots on both sides
- For the shortest possible distance between fittings

* In these two sizes, stiffeners Code No. 733 900 006 (20 x 1,9) and 733 900 007 (25 x 2.3) must be used with socket fusion joints.

	d (mm)	PN (bar)	Code	Weight (kg)	L (mm)
*	20	10	**753 910 906**	0.005	40
*	25	10	**753 910 907**	0.006	40
	32	10	**753 910 908**	0.010	50
	40	10	**753 910 909**	0.017	50
	50	10	**753 910 910**	0.029	60
	63	10	**753 910 911**	0.058	70
	75	10	**753 910 912**	0.095	74
	90	10	**753 910 913**	0.163	89
	110	10	**753 910 914**	0.305	110

ecoFIT butt welding system





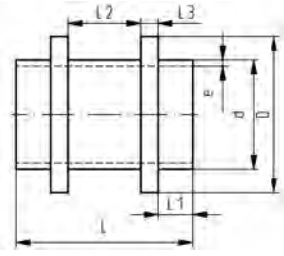
ecoFIT fixpoint fitting SDR11

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- Machined
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d (mm)	FM	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)
63	IR	**753 665 558**	0.182	90	122	30	42	10	5.8
75	IR	**753 665 559**	0.265	110	122	30	42	10	6.8
90	IR	**753 665 560**	0.357	125	122	30	42	10	8.2
110	IR	**753 665 561**	0.610	140	142	30	52	15	10.0
125	IR	**753 665 562**	0.811	160	152	35	52	15	11.4
140	IR	**753 665 563**	1.068	180	162	40	52	15	12.7
160	IR	**753 665 564**	1.349	200	162	40	52	15	14.6
180	IR	**753 665 565**	2.001	225	182	45	52	20	16.4
200	IR	**753 665 566**	2.469	250	182	45	52	20	18.2
225	IR	**753 665 567**	3.438	280	192	45	52	25	20.5
250		**753 665 568**	3.858	280	212	50	62	25	22.7
280		**753 665 569**	5.217	315	222	50	62	30	25.4
315		**753 665 570**	6.627	355	222	50	62	30	28.6
355		**753 665 571**	7.731	400	192	30	62	35	32.2
400		**753 665 572**	10.890	450	212	30	72	40	36.3
450		**753 665 573**	14.775	500	232	35	72	45	40.9
500		**753 665 574**	20.268	560	252	40	72	50	45.4
560		**753 665 575**	28.608	630	282	45	82	55	50.8
630		**753 665 576**	39.129	710	302	50	82	60	57.2





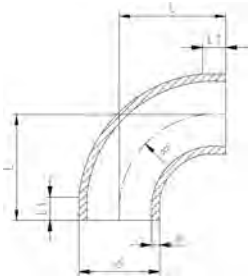
ecoFIT fixpoint fitting SDR17/17.6

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100
- Machined

d (mm)	FM	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)
63	IR	**753 665 577**	0.144	90	122	30	42	10	3.8
75	IR	**753 665 578**	0.212	110	122	30	42	10	4.5
90	IR	**753 665 579**	0.279	125	122	30	42	10	5.4
110	IR	**753 665 580**	0.457	140	142	30	52	15	6.6
125	IR	**753 665 581**	0.618	160	152	35	52	15	7.4
140	IR	**753 665 582**	0.815	180	162	40	52	15	8.3
160	IR	**753 665 583**	1.014	200	162	40	52	15	9.5
180	IR	**753 665 584**	1.528	225	182	45	52	20	10.7
200	IR	**753 665 585**	1.887	250	182	45	52	20	11.9
225	IR	**753 665 586**	2.661	280	192	45	52	25	13.4
250		**753 665 587**	2.796	280	212	50	62	25	14.8
280		**753 665 588**	3.829	315	222	50	62	30	16.6
315		**753 665 589**	4.871	355	222	50	62	30	18.7
355		**753 665 590**	5.812	400	192	30	62	35	21.1
400		**753 665 591**	8.180	450	212	30	72	40	23.7
450		**753 665 592**	11.015	500	232	35	72	45	26.7
500		**753 665 593**	15.251	560	252	40	72	50	29.7
560		**753 665 594**	21.557	630	282	45	82	55	33.2
630		**753 665 595**	29.574	710	302	50	82	60	37.4





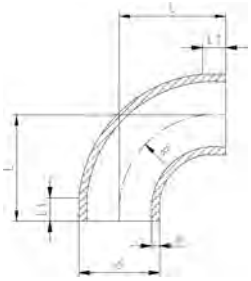
ecoFIT bend 90° SDR11

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
20	IR	**753 018 706**	0.007	38	23	15.00	1.9
25	IR	**753 018 707**	0.013	42	23	19.00	2.3
32	IR	**753 018 708**	0.025	46	22	24.00	2.9
40	IR	**753 018 709**	0.041	51	21	30.00	3.7
50	IR	**753 018 710**	0.065	58	21	37.00	4.6
63	IR	**753 018 711**	0.124	66	21	45.00	5.8
75	IR	**753 018 742**	0.190	75	21	71.25	6.8
90	IR	**753 018 743**	0.325	90	22	85.50	8.2
110	IR	**753 018 744**	0.590	110	25	104.50	10.0
125	IR	**753 018 715**	0.818	125	28	116.00	11.4
140	IR	**753 018 716**	1.148	140	33	131.00	12.7
160	IR	**753 018 717**	1.699	160	33	151.00	14.6
180	IR	**753 018 718**	2.394	180	33	171.00	16.4
200	IR	**753 018 719**	3.264	200	33	190.00	18.2
225	IR	**753 018 720**	4.535	220	33	210.00	20.5
250		**753 018 621**	6.713	256	48	232.00	22.7
280		**753 018 622**	9.885	286	52	263.00	25.4
315		**753 018 623**	14.158	321	48	297.00	28.6
355		**753 018 624**	18.000	345	70	330.00	32.3
400		**753 018 625**	24.020	365	70	350.00	36.3
450		**753 018 626**	35.360	425	70	400.00	40.9
500		**753 018 627**	47.370	470	90	445.00	45.5





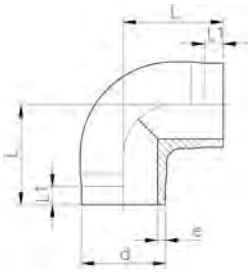
ecoFIT bend 90° SDR17/17.6

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
50	IR	**753 018 635**	0.052	58	21	37.00	2.9
63	IR	**753 018 636**	0.087	66	21	45.00	3.6
75	IR	**753 018 637**	0.133	75	21	71.25	4.5
90	IR	**753 018 638**	0.226	90	22	85.50	5.4
110	IR	**753 018 639**	0.407	110	25	104.50	6.6
125	IR	**753 018 515**	0.556	125	28	116.00	7.3
140	IR	**753 018 516**	0.785	140	33	131.00	8.2
160	IR	**753 018 517**	1.156	160	33	151.00	9.4
180	IR	**753 018 518**	1.619	180	33	171.00	10.6
200	IR	**753 018 519**	2.208	200	33	190.00	11.7
225	IR	**753 018 520**	3.039	220	33	210.00	12.9
250		**753 018 521**	4.645	256	48	232.00	14.2
280		**753 018 522**	7.020	286	48	262.00	15.9
315		**753 018 523**	10.099	321	48	297.00	17.9
355		**753 018 524**	12.580	345	70	330.00	21.1
400		**753 018 525**	16.680	365	70	350.00	23.7
450		**753 018 526**	24.760	425	70	400.00	26.7
500		**753 018 527**	33.640	470	90	445.00	29.7





ecoFIT elbow 90° SDR11

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	IR	**753 108 606**	0.009	38	25	1.9
25	IR	**753 108 607**	0.013	42	26	2.3
32	IR	**753 108 608**	0.026	46	27	2.9
40	IR	**753 108 609**	0.047	51	22	3.7
50	IR	**753 108 610**	0.086	58	23	4.6
63	IR	**753 108 611**	0.150	66	21	5.8





ecoFIT elbow 45° SDR11

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	IR	**753 158 606**	0.007	32	24	1.9
25	IR	**753 158 607**	0.013	34	25	2.3
32	IR	**753 158 608**	0.019	36	25	2.9
40	IR	**753 158 609**	0.036	39	25	3.7
50	IR	**753 158 610**	0.059	42	26	4.6
63	IR	**753 158 611**	0.103	47	29	5.8
75	IR	**753 158 612**	0.146	49	29	6.8
90	IR	**753 158 613**	0.241	57	34	8.2
110	IR	**753 158 614**	0.442	70	43	10.0
125	IR	**753 158 615**	0.638	79	48	11.4
140	IR	**753 158 616**	0.902	88	55	12.7
160	IR	**753 158 617**	1.340	100	60	14.6
200	IR	**753 158 619**	2.612	124	75	18.2
225	IR	**753 158 620**	3.638	140	85	20.5





ecoFIT elbow 45° SDR17.6

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
50	IR	**753 158 535**	0.045	42	26	2.9
63	IR	**753 158 536**	0.091	47	29	3.6
75	IR	**753 158 412**	0.125	49	29	4.7
90	IR	**753 158 413**	0.198	57	34	5.6
110	IR	**753 158 414**	0.375	70	43	6.9
125	IR	**753 158 540**	0.542	79	48	7.1
140	IR	**753 158 541**	0.784	88	55	8.0
160	IR	**753 158 542**	1.190	100	60	9.1
200	IR	**753 158 544**	2.331	124	75	11.4
225	IR	**753 158 545**	3.282	140	85	12.8





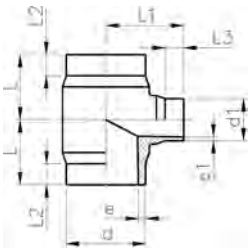
ecoFIT tee 90° equal SDR11

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	IR	**753 208 606**	0.013	38	17	1.9
25	IR	**753 208 607**	0.021	42	17	2.3
32	IR	**753 208 608**	0.042	46	17	2.9
40	IR	**753 208 609**	0.065	51	22	3.7
50	IR	**753 208 610**	0.111	58	22	4.6
63	IR	**753 208 611**	0.202	66	21	5.8
75	IR	**753 208 612**	0.312	75	20	6.8
90	IR	**753 208 613**	0.553	90	20	8.2
110	IR	**753 208 614**	1.002	110	20	10.0
125	IR	**753 208 615**	1.509	125	25	11.4
140	IR	**753 208 616**	2.105	140	28	12.7
160	IR	**753 208 617**	3.085	160	28	14.6
180	IR	**753 208 618**	5.740	214	94	16.4
200	IR	**753 208 619**	5.982	200	35	18.2
225	IR	**753 208 620**	8.090	220	35	20.5
250		**753 208 621**	10.770	225	68	22.7
280		**753 208 622**	15.950	265	87	25.4
315		**753 208 623**	21.285	285	88	28.6
355		**753 208 624**	32.600	345	105	32.3
400		**753 208 625**	42.900	365	105	36.4
450		**753 208 626**	63.300	425	135	40.9
500		**753 208 627**	86.000	470	155	45.5





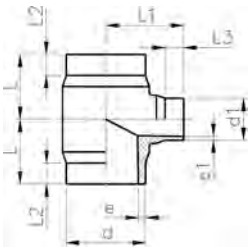
ecoFIT tee 90° reduced SDR11

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d (mm)	d1 (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)
63	32	IR	**753 208 351**	0.161	65	70	25	25	5.8	2,9
63	50	IR	**753 208 352**	0.180	65	70	25	25	5.8	4,6
75	32	IR	**753 208 353**	0.255	70	75	25	25	6.8	2,9
75	50	IR	**753 208 354**	0.265	70	75	25	25	6.8	4,6
75	63	IR	**753 208 355**	0.278	70	75	25	25	6.8	5,8
90	50	IR	**753 208 357**	0.435	80	85	25	25	8.2	4,6
90	63	IR	**753 208 358**	0.448	80	85	25	25	8.2	5,8
90	75	IR	**753 208 359**	0.462	80	85	25	25	8.2	6,8
110	32	IR	**753 208 360**	0.685	90	95	30	25	10.0	2,9
110	50	IR	**753 208 361**	0.694	90	95	30	25	10.0	4,6
110	63	IR	**753 208 362**	0.709	90	95	30	25	10.0	5,8
110	75	IR	**753 208 363**	0.717	90	95	30	25	10.0	6,8
110	90	IR	**753 208 364**	0.734	90	95	30	25	10.0	8,2
160	63	IR	**753 208 371**	2.269	142	135	50	30	14.6	5,8
160	75	IR	**753 208 372**	2.255	142	135	50	30	14.6	6,8
160	90	IR	**753 208 373**	2.317	142	135	50	30	14.6	8,2
160	110	IR	**753 208 374**	2.353	142	135	50	30	14.6	10,0
225	90	IR	**753 208 388**	4.759	155	165	40	30	20.5	8,2
225	110	IR	**753 208 389**	4.796	155	165	40	30	20.5	10,0
225	160	IR	**753 208 391**	4.854	155	165	40	30	20.5	14,6
250	110		**753 221 031**	8.199	228	197	140	37	22.7	10,0
250	160		**753 221 032**	8.564	229	219	117	60	22.7	14,6





ecoFIT tee 90° reduced SDR17.6

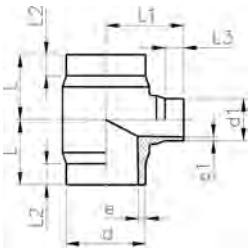
Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100
- 5 bar Gas / 10 bar Water

* Branch SDR11

	d (mm)	d1 (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)
*	63	32	IR	**753 208 301**	0.163	65	70	25	25	3.6	2,9
	63	50	IR	**753 208 302**	0.171	65	70	25	25	3.6	2,9
*	75	32	IR	**753 208 303**	0.231	70	75	25	25	4.3	2,9
	75	50	IR	**753 208 304**	0.250	70	75	25	25	4.3	2,9
	75	63	IR	**753 208 305**	0.263	70	75	25	25	4.3	3,6
	90	50	IR	**753 208 307**	0.411	80	85	25	25	5.1	2,9
	90	63	IR	**753 208 308**	0.329	80	85	25	25	5.1	3,6
	90	75	IR	**753 208 309**	0.339	80	85	25	25	5.1	4,3
*	110	32	IR	**753 208 310**	0.643	90	95	30	25	6.3	2,9
	110	50	IR	**753 208 311**	0.655	90	95	30	25	6.3	2,9
	110	63	IR	**753 208 312**	0.516	90	95	30	25	6.3	3,6
	110	75	IR	**753 208 313**	0.521	90	95	30	25	6.3	4,3
	110	90	IR	**753 208 314**	0.529	90	95	30	25	6.3	5,1
	160	63	IR	**753 208 321**	2.103	142	135	50	30	9.1	3,6
	160	75	IR	**753 208 322**	2.142	142	135	50	30	9.1	4,3
	160	90	IR	**753 208 323**	1.668	142	135	50	30	9.1	5,1

table continued on the next page



d (mm)	d1 (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)
160	110	IR	**753 208 324**	1.687	142	135	50	30	9.1	6,3
225	90	IR	**753 208 338**	3.439	155	165	40	30	12.8	5,1
225	110	IR	**753 208 339**	3.448	155	165	40	30	12.8	6,3
225	160	IR	**753 208 341**	3.471	155	165	40	30	12.8	9,1





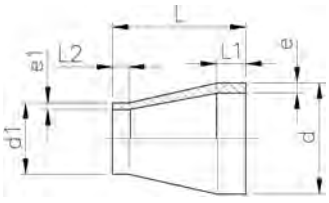
ecoFIT tee 90° equal SDR17/17.6

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
50	IR	**753 208 510**	0.136	90	57	2.9
63	IR	**753 208 511**	0.187	107	64	3.6
75	IR	**753 208 412**	0.232	74	20	4.8
90	IR	**753 208 413**	0.408	90	20	5.6
110	IR	**753 208 414**	0.724	110	20	6.9
125	IR	**753 208 515**	1.169	125	52	7.1
140	IR	**753 208 516**	1.805	157	62	8.0
160	IR	**753 208 517**	2.375	160	57	9.1
180	IR	**753 208 518**	4.095	214	96	10.2
200	IR	**753 208 519**	5.145	220	93	11.4
225	IR	**753 208 520**	7.140	225	76	12.8
250		**753 208 521**	7.670	225	67	14.2
280		**753 208 522**	10.900	264	86	15.9
315		**753 208 523**	14.870	282	87	17.9
355		**753 208 524**	21.800	345	105	21.1
400		**753 208 525**	28.600	365	105	23.7
450		**753 208 526**	42.400	425	135	26.7
500		**753 208 527**	57.600	470	155	29.7





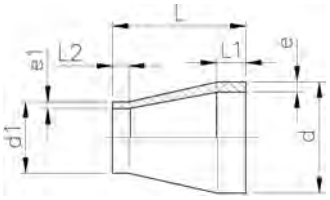
ecoFIT reducer SDR11

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100
- Up to d 315 injection moulded, above machined

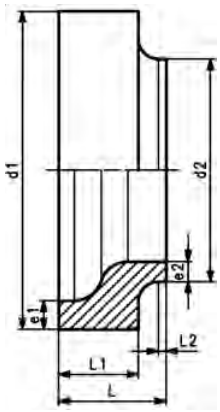
d (mm)	d1 (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
25	20	IR	**753 908 637**	0.008	50	20	18	2.3	1,9
32	20	IR	**753 908 642**	0.010	50	20	18	2.9	1,9
32	25	IR	**753 908 641**	0.006	50	20	18	2.9	2,3
40	20	IR	**753 908 648**	0.017	58	20	20	3.7	1,9
40	25	IR	**753 908 647**	0.017	55	20	18	3.7	2,3
40	32	IR	**753 908 646**	0.019	55	20	18	3.7	2,9
50	25	IR	**753 908 654**	0.025	60	20	18	4.6	2,3
50	32	IR	**753 908 653**	0.026	60	20	18	4.6	2,9
50	40	IR	**753 908 652**	0.032	60	20	18	4.6	3,7
63	32	IR	**753 908 660**	0.046	65	20	18	5.8	2,9
63	40	IR	**753 908 659**	0.051	65	20	18	5.8	3,7
63	50	IR	**753 908 658**	0.056	65	20	18	5.8	4,6
75	40	IR	**753 908 666**	0.070	68	20	20	6.8	3,7

table continued on the next page



d (mm)	d1 (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
75	50	IR	**753 908 665**	0.074	65	20	18	6.8	4,6
75	63	IR	**753 908 664**	0.081	65	20	18	6.8	5,8
90	63	IR	**753 908 671**	0.125	75	21	17	8.2	5,8
90	75	IR	**753 908 670**	0.132	75	22	17	8.2	6,8
110	63	IR	**753 908 672**	0.219	90	28	28	10.6	6,2
110	75	IR	**753 908 677**	0.219	90	28	17	10.0	6,8
110	90	IR	**753 908 676**	0.240	90	28	20	10.0	8,2
125	110	IR	**753 908 680**	0.350	100	32	26	11.4	10,0
140	110	IR	**753 908 685**	0.437	110	35	28	12.7	10,0
140	125	IR	**753 908 684**	0.474	110	35	28	12.7	11,4
160	110	IR	**753 908 690**	0.612	120	40	25	14.6	10,0
160	140	IR	**753 908 688**	0.674	120	40	33	14.6	12,7
180	90	IR	**753 908 149**	0.925	145	50	40	16.4	8,2
180	110	IR	**753 908 150**	1.020	150	55	42	16.4	10,0
180	125	IR	**753 908 151**	1.020	143	52	40	16.4	11,4
180	140	IR	**753 908 152**	1.015	135	51	47	16.4	12,7
180	160	IR	**753 908 153**	1.140	135	55	52	16.4	14,6
200	160	IR	**753 908 692**	1.247	150	50	35	18.2	14,6
200	180	IR	**753 908 158**	1.475	145	62	54	18.2	16,4
225	110	IR	**753 908 695**	1.559	171	55	45	20.5	10,0
225	160	IR	**753 908 696**	1.590	160	55	37	20.5	14,6
225	180	IR	**753 908 162**	1.800	160	64	59	22.7	20,5
225	200	IR	**753 908 697**	1.844	160	55	48	20.5	18,2
250	160	IR	**753 908 165**	2.305	177	65	53	20.5	14,6
250	180		**753 900 001**	2.513	175	60	55	22.7	16,4
250	200		**753 900 002**	2.450	180	60	60	22.7	18,2
250	225		**753 908 168**	3.025	180	65	65	22.7	20,5
280	200		**753 900 004**	3.540	205	70	50	25.4	18,2
280	225		**753 908 172**	3.860	210	75	58	25.4	20,5
280	250		**753 908 173**	4.155	206	75	60	25.4	22,7
315	200		**753 900 007**	3.996	225	80	50	28.6	20,5
315	225		**753 908 176**	5.260	237	84	57	28.6	20,5
315	250		**753 908 177**	5.415	236	86	64	28.6	22,7
315	280		**753 908 178**	5.600	231	86	72	28.6	25,4
355	225		**753 900 011**	4.700	245	90	55	32.3	20,5
355	250		**753 900 012**	4.400	245	90	60	32.3	22,7
355	280		**753 900 013**	4.100	245	90	70	32.3	25,4
355	315		**753 900 014**	3.700	245	90	80	32.3	28,6
400	225		**753 900 015**	7.963	260	95	60	36.4	20,5
400	250		**753 900 016**	6.800	260	95	70	36.4	22,7
400	280		**753 900 017**	6.200	260	95	70	36.4	25,4
400	315		**753 900 018**	10.829	260	95	80	36.4	28,6
400	355		**753 900 019**	4.800	260	95	90	36.4	32,3
450	280		**753 900 020**	9.000	230	60	70	40.9	25,4
450	315		**753 900 021**	8.000	230	60	80	40.9	28,6
450	355		**753 900 022**	7.400	230	60	90	40.9	32,3
450	400		**753 900 023**	6.600	230	60	95	40.9	36,4
500	355		**753 900 025**	10.800	230	60	90	45.5	32,3
500	400		**753 900 026**	10.000	230	60	95	45.5	36,4
500	450		**753 900 027**	8.300	200	60	60	45.5	40,9
710	500		**753 900 035**	24.157	190	84	40	64.5	45,4
710	560		**753 900 036**	21.770	170	81	40	64.5	50,8
710	630		**753 900 037**	17.845	140	71	40	64.5	57,2





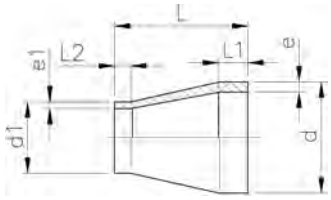
ecoFIT flush style reducer SDR11

Model:

- Material: PE100
- Flush style design
- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

d1 (mm)	d2 (mm)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
355	225	**753 909 809**	5.230	130	95	10.0	32.2	20.5
355	250	**753 909 810**	3.752	115	80	10.0	32.3	22.7
355	280	**753 909 811**	4.066	115	80	10.0	32.3	25.4
355	315	**753 909 812**	4.149	115	80	15.0	32.3	28.6
400	225	**753 909 816**	7.964	145	110	10.0	36.3	20.5
400	250	**753 909 817**	6.861	135	100	10.0	36.4	22.7
400	280	**753 909 818**	6.679	135	100	10.0	36.4	25.4
400	315	**753 909 819**	6.460	135	100	10.0	36.4	28.6
400	355	**753 909 820**	6.101	135	100	13.0	36.4	32.3
450	225	**753 909 822**	11.965	165	125	10.0	40.9	20.5
450	250	**753 909 823**	11.087	160	120	10.0	40.9	22.7
450	280	**753 909 824**	9.604	150	100	15.0	40.9	25.4
450	315	**753 909 825**	9.091	150	100	15.0	40.9	28.6
450	355	**753 909 826**	8.656	150	100	15.0	40.9	32.3
450	400	**753 909 827**	8.369	150	100	15.0	40.9	36.4
500	225	**753 909 829**	16.053	180	130	10.0	45.4	20.5
500	250	**753 909 830**	15.784	180	130	10.0	45.4	22.7
500	280	**753 909 831**	14.691	175	125	10.0	45.4	25.4
500	315	**753 909 832**	10.921	165	115	10.0	45.5	28.6
500	355	**753 909 833**	11.321	165	115	10.0	45.5	32.3
500	400	**753 909 834**	12.453	165	115	10.0	45.5	36.4
500	450	**753 909 835**	12.640	165	115	25.0	45.5	40.9
560	315	**753 909 836**	22.204	210	160	10.0	50.8	28.6
560	355	**753 909 837**	19.976	200	150	10.0	50.8	32.2
560	400	**753 909 838**	17.215	185	135	10.0	50.8	36.3
560	450	**753 909 839**	14.263	165	115	10.0	50.8	40.9
560	500	**753 909 840**	13.955	165	115	10.0	50.8	45.4
630	315	**753 909 841**	29.984	220	170	10.0	57.2	28.6
630	355	**753 909 842**	29.376	220	170	10.0	57.2	32.2
630	400	**753 909 843**	26.541	210	160	10.0	57.2	36.3
630	450	**753 909 844**	23.034	195	145	10.0	57.2	40.9
630	500	**753 909 845**	19.243	175	125	10.0	57.2	45.4
630	560	**753 909 846**	17.438	165	115	20.0	57.2	50.8





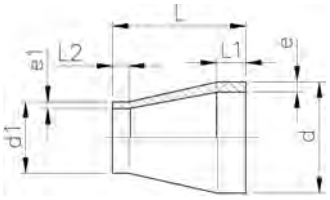
ecoFIT reducer SDR17/17.6

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100
- Up to d 315 injection moulded, above machined

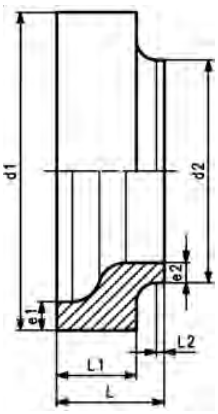
d (mm)	d1 (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
50	40	IR	**753 908 713**	0.037	134	56	52	2.9	2,3
63	50	IR	**753 908 718**	0.055	87	29	27	3.6	2,9
75	40	IR	**753 908 904**	0.041	71	19	12	4.3	2,3
75	50	IR	**753 908 465**	0.049	65	20	20	4.3	2,9
75	63	IR	**753 908 464**	0.056	65	20	20	4.3	3,6
90	63	IR	**753 908 471**	0.083	75	20	19	5.1	3,6
90	75	IR	**753 908 470**	0.092	75	20	20	5.1	4,3
110	63	IR	**753 908 472**	0.157	90	28	28	6.9	4,0

table continued on the next page



d (mm)	d1 (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
110	75	IR	**753 908 477**	0.157	89	28	18	6.3	4,3
110	90	IR	**753 908 476**	0.164	90	28	20	6.3	5,1
125	110	IR	**753 908 738**	0.275	100	40	40	7.1	6,3
140	110	IR	**753 908 742**	0.375	120	53	43	8.0	6,3
140	125	IR	**753 908 743**	0.395	124	54	43	8.0	7,1
160	110	IR	**753 908 746**	0.460	129	40	34	9.1	6,3
160	140	IR	**753 908 748**	0.525	125	49	38	9.1	8,0
180	90	IR	**753 908 749**	0.650	145	53	42	10.2	5,1
180	110	IR	**753 908 750**	0.680	150	55	42	10.2	6,3
180	125	IR	**753 908 751**	0.705	143	52	40	10.2	7,1
180	140	IR	**753 908 752**	0.670	135	51	47	10.2	8,0
180	160	IR	**753 908 753**	0.750	135	55	52	10.2	9,1
200	160	IR	**753 908 931**	0.860	145	50	40	11.4	9,1
200	180	IR	**753 908 758**	0.955	145	62	54	11.4	10,2
225	110	IR	**753 908 938**	1.382	160	55	35	12.8	6,3
225	160	IR	**753 908 933**	1.120	160	55	40	12.8	9,1
225	180	IR	**753 908 762**	1.215	166	64	57	12.8	10,2
225	200	IR	**753 908 932**	1.234	171	55	50	12.8	11,4
250	160		**753 908 765**	1.620	174	64	52	14.2	9,1
250	180		**753 902 801**	1.690	175	60	55	14.8	10,7
250	200		**753 902 802**	1.899	180	60	60	14.8	11,9
250	225		**753 908 768**	1.990	180	65	65	14.2	12,8
280	200		**753 902 804**	2.585	205	70	50	16.6	11,9
280	225		**753 908 772**	2.505	200	70	55	15.9	12,8
280	250		**753 908 773**	2.655	200	73	62	15.9	14,2
315	200		**753 902 807**	2.907	225	80	50	18.7	11,9
315	225		**753 908 776**	3.560	237	84	59	17.9	12,8
315	250		**753 908 777**	3.695	234	88	64	17.9	14,2
315	280		**753 908 778**	3.940	227	85	72	17.9	15,9
710	500		**753 902 835**	16.750	190	84	40	42.1	29,7
710	560		**753 902 836**	15.014	170	81	40	42.1	33,2
710	630		**753 902 837**	12.215	140	71	40	42.1	37,4
800	560		**753 902 838**	22.731	200	85	40	47.4	33,2
800	630		**753 902 839**	20.475	180	85	40	47.4	37,4
800	710		**753 902 840**	16.774	150	78	40	47.4	42,1
900	630		**753 902 841**	32.055	220	96	40	53.3	37,4
900	710		**753 902 842**	27.731	190	89	40	53.3	42,1
900	800		**753 902 843**	22.854	160	85	40	53.3	47,4
1000	710		**753 902 844**	40.412	220	91	40	59.3	42,1
1000	800		**753 902 845**	33.910	180	86	40	59.3	47,4
1000	900		**753 902 846**	25.824	140	75	40	59.3	53,3





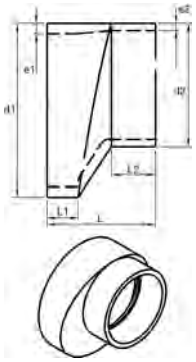
ecoFIT flush style reducer SDR17/17.6

Model:

- Material: PE100
- Flush style design
- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

d1 (mm)	d2 (mm)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
355	225	**753 909 859**	3.922	120	85	10	21.1	13.4
355	250	**753 909 860**	3.318	115	80	10	21.1	14.8
355	280	**753 909 861**	3.134	115	80	10	21.1	16.6
355	315	**753 909 862**	2.716	115	80	15	21.1	18.7
400	225	**753 909 866**	6.299	135	100	10	23.7	13.4
400	250	**753 909 867**	5.754	135	100	10	23.7	14.8
400	280	**753 909 868**	5.468	135	100	10	23.7	16.6
400	315	**753 909 869**	5.125	135	100	10	23.7	18.7
400	355	**753 909 870**	4.614	135	100	13	23.7	21.1
450	225	**753 909 872**	9.323	150	110	10	26.7	13.4
450	250	**753 909 873**	9.000	150	110	10	27.7	14.8
450	280	**753 909 874**	8.066	150	110	15	26.7	16.6
450	315	**753 909 875**	7.354	150	110	15	26.7	18.7
450	355	**753 909 876**	6.724	150	110	15	26.7	21.1
450	400	**753 909 877**	6.238	150	110	15	26.7	23.7
500	225	**753 909 879**	12.120	165	115	10	29.7	13.4
500	250	**753 909 880**	11.834	165	115	10	29.7	14.8
500	280	**753 909 881**	11.459	165	115	10	29.7	16.6
500	315	**753 909 882**	10.502	165	115	10	29.7	18.7
500	355	**753 909 883**	10.154	165	115	10	29.7	21.1
500	400	**753 909 884**	8.642	165	115	10	29.7	23.7
500	450	**753 909 885**	7.978	165	115	25	29.7	26.7
560	315	**753 909 886**	19.966	210	160	10	33.2	18.7
560	355	**753 909 887**	17.764	200	150	10	33.2	21.1
560	400	**753 909 888**	15.168	185	135	10	33.2	23.7
560	450	**753 909 889**	11.650	165	115	10	33.2	26.7
560	500	**753 909 890**	10.623	165	115	20	33.2	29.7
630	315	**753 909 891**	27.625	220	170	10	37.4	18.7
630	355	**753 909 892**	26.454	220	170	10	37.4	21.1
630	400	**753 909 893**	23.648	210	160	10	37.4	23.7
630	450	**753 909 894**	19.957	195	145	10	37.4	26.7
630	500	**753 909 895**	15.910	175	125	10	37.4	29.7
630	560	**753 909 896**	13.272	165	115	20	37.4	33.2





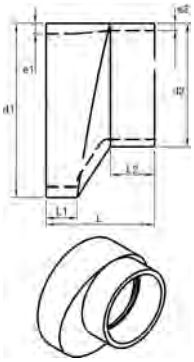
Reducing Bushes excentric, PE100 SDR11

Model:

- Conventional butt fusion according to DVS2207
- Machined

d1 (mm)	d2 (mm)	PN (bar)	Code	SP	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
63	50	16	**700 647 600**	0	120	35	35	5,8	4,6
75	50	16	**700 647 601**	0	120	40	35	6,8	4,6
75	63	16	**700 647 602**	0	120	40	35	6,8	5,8
90	63	16	**700 647 603**	0	140	50	50	8,2	5,8
90	75	16	**700 647 604**	0	140	50	50	8,2	6,8
110	75	16	**700 647 605**	0	140	50	50	10	6,8
110	90	16	**700 647 606**	0	140	50	50	10	8,2
125	90	16	**700 647 607**	0	140	50	50	11,4	5,1
125	110	16	**700 647 608**	0	140	50	50	11,4	10
140	90	16	**700 647 609**	0	140	50	50	12,7	8,2
140	110	16	**700 647 610**	0	140	50	50	12,7	10
160	90	16	**700 647 611**	0	140	50	54	14,6	8,2
160	110	16	**700 647 612**	0	120	40	45	14,6	10
160	125	16	**700 647 613**	0	110	40	44	14,6	11,4
160	140	16	**700 647 614**	0	90	40	33	14,6	12,7
180	125	16	**700 647 615**	0	130	40	52	16,4	11,4
180	140	16	**700 647 616**	0	110	40	41	16,4	12,7
180	160	16	**700 647 617**	0	90	40	33	16,4	16,4
200	140	16	**700 647 618**	0	140	40	50	18,2	12,7
200	160	16	**700 647 619**	0	120	40	41	18,2	14,6
200	180	16	**700 647 620**	0	100	40	43	18,2	16,4
225	160	16	**700 647 621**	0	140	40	57	20,5	14,6
225	180	16	**700 647 622**	0	120	40	48	20,5	16,4
225	200	16	**700 647 623**	0	100	40	40	20,5	18,2
250	180	16	**700 647 624**	0	150	40	54	22,7	16,4
250	200	16	**700 647 625**	0	130	40	55	22,7	18,2
250	225	16	**700 647 626**	0	110	40	40	22,7	20,5
280	200	16	**700 647 627**	0	160	40	58	25,4	18,2
280	225	16	**700 647 628**	0	130	40	52	25,4	20,5
280	250	16	**700 647 629**	0	110	40	47	25,4	22,7
315	225	16	**700 647 630**	0	160	40	62	28,6	20,5
315	250	16	**700 647 631**	0	140	40	57	28,6	22,7
315	280	16	**700 647 632**	0	120	40	54	28,6	25,4
355	250	16	**700 647 633**	0	180	40	74	32,2	22,7
355	280	16	**700 647 634**	0	150	40	61	32,2	25,4
355	315	16	**700 647 635**	0	120	40	51	32,2	28,6
400	280	16	**700 647 636**	0	200	40	85	36,3	25,4
400	315	16	**700 647 637**	0	170	40	75	36,3	28,6
400	355	16	**700 647 638**	0	130	40	58	36,3	32,2
450	315	16	**700 647 639**	0	210	40	86	40,9	28,6
450	355	16	**700 647 640**	0	180	40	79	40,9	32,2
450	400	16	**700 647 641**	0	140	40	65	40,9	36,3
500	315	16	**700 647 642**	0	260	40	107	45,4	28,6
500	355	16	**700 647 643**	0	220	40	91	45,4	32,2
500	400	16	**700 647 644**	0	190	40	86	45,4	36,3
500	450	16	**700 647 645**	0	140	40	65	45,4	40,9
560	450	16	**700 647 646**	0	200	40	91	50,8	40,9
560	500	16	**700 647 647**	0	150	40	70	50,8	45,4
630	500	16	**700 647 648**	0	220	40	99	57,2	45,4
630	560	16	**700 647 649**	0	170	40	84	57,2	50,8





Reducing Bushes excentric, PE100 SDR17.6

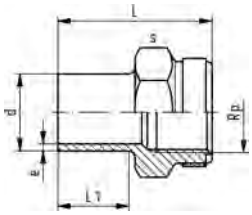
Model:

- Machined
- Conventional butt fusion according to DVS2207

d1 (mm)	d2 (mm)	PN (bar)	Code	SP	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
63	50	10	**700 647 650**	0	120	35	35	3,6	2,9
75	50	10	**700 647 651**	0	120	40	35	4,3	2,9
75	63	10	**700 647 652**	0	120	40	35	4,3	3,6
90	63	10	**700 647 653**	0	140	50	50	5,1	3,6
90	75	10	**700 647 654**	0	140	50	50	5,1	4,3
110	75	10	**700 647 655**	0	140	50	50	6,3	4,3
110	90	10	**700 647 656**	0	140	50	50	6,3	5,1
125	90	10	**700 647 657**	0	140	50	50	7,1	5,1
125	110	10	**700 647 658**	0	140	50	50	7,1	6,3
140	90	10	**700 647 659**	0	140	50	50	8,0	5,1
140	110	10	**700 647 660**	0	140	50	50	8,0	6,3
160	90	10	**700 647 661**	0	140	50	54	9,5	5,4
160	110	10	**700 647 662**	0	120	40	45	9,5	6,6
160	125	10	**700 647 663**	0	110	40	44	9,5	7,4
160	140	10	**700 647 664**	0	90	40	33	9,5	8,3
180	125	10	**700 647 665**	0	130	40	52	10,7	7,4
180	140	10	**700 647 666**	0	110	40	41	10,7	8,3
180	160	10	**700 647 667**	0	90	40	33	10,7	9,5
200	140	10	**700 647 668**	0	140	40	50	11,9	8,3
200	160	10	**700 647 669**	0	120	40	41	11,9	9,5
200	180	10	**700 647 670**	0	100	40	43	11,9	10,7
225	160	10	**700 647 671**	0	140	40	57	13,4	9,5
225	180	10	**700 647 672**	0	120	40	48	13,4	10,7
225	200	10	**700 647 673**	0	100	40	40	13,4	11,9
250	180	10	**700 647 674**	0	150	40	54	14,8	10,7
250	200	10	**700 647 675**	0	130	40	55	14,8	11,9
250	225	10	**700 647 676**	0	110	40	40	14,8	13,4
280	200	10	**700 647 677**	0	160	40	58	16,6	11,9
280	225	10	**700 647 678**	0	130	40	52	16,6	13,4
280	250	10	**700 647 679**	0	110	40	47	16,6	14,8
315	225	10	**700 647 680**	0	160	40	62	18,7	13,4
315	250	10	**700 647 681**	0	140	40	57	18,7	14,8
315	280	10	**700 647 682**	0	120	40	54	18,7	16,6
355	250	10	**700 647 683**	0	180	40	74	21,1	14,8
355	280	10	**700 647 684**	0	150	40	61	21,1	16,6
355	315	10	**700 647 685**	0	120	40	51	21,1	18,7
400	280	10	**700 647 686**	0	200	40	85	23,7	16,6
400	315	10	**700 647 687**	0	170	40	75	23,7	18,7
400	355	10	**700 647 688**	0	130	40	58	23,7	21,1
450	315	10	**700 647 689**	0	210	40	86	26,7	18,7
450	355	10	**700 647 690**	0	180	40	79	26,7	21,1
450	400	10	**700 647 691**	0	140	40	65	26,7	23,7
500	315	10	**700 647 692**	0	260	40	107	29,7	18,7
500	355	10	**700 647 693**	0	220	40	91	29,7	21,1
500	400	10	**700 647 694**	0	190	40	86	29,7	23,7
500	450	10	**700 647 695**	0	140	40	65	29,7	26,7
560	450	10	**700 647 696**	0	200	40	91	33,2	26,7
560	500	10	**700 647 697**	0	150	40	70	33,2	29,7
630	500	10	**700 647 698**	0	220	40	99	37,4	29,7
630	560	10	**700 647 699**	0	170	40	84	37,4	33,2

ecoFIT adaptor fittings for butt fusion





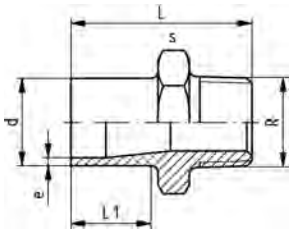
ecoFIT adaptor socket SDR11 metric Rp

Model:

- Material: PE100
- With butt fusion spigot **SDR11** and BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	DN (mm)	Rp (inch)	FM	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	15	½	IR	16	**753 910 266**	0.018	49	23	32	1.9
25	20	¾	IR	16	**753 910 267**	0.022	51	23	36	2.3
32	25	1	IR	16	**753 910 268**	0.038	55	23	46	3.0
40	32	1 ¼	IR	16	**753 910 269**	0.068	57	23	55	3.7
50	40	1 ½	IR	16	**753 910 270**	0.083	60	23	64	4.6
63	50	2	IR	16	**753 910 271**	0.134	62	23	80	5.8





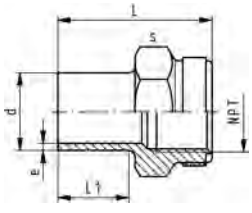
ecoFIT adaptor nipple SDR11 metric R

Model:

- Material: PE100
- With butt fusion spigot SDR11 and tapered male thread
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	R (inch)	DN (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	½	15	IR	**753 910 556**	0.013	51	23	32	1.9
25	¾	20	IR	**753 910 557**	0.026	52	23	36	2.3
32	1	25	IR	**753 910 558**	0.028	55	23	46	3.0
40	1 ¼	32	IR	**753 910 559**	0.043	58	23	55	3.7
50	1 ½	40	IR	**753 910 560**	0.063	60	23	65	4.6
63	2	50	IR	**753 910 561**	0.104	67	26	80	5.8





ecoFIT adaptor socket SDR11 metric NPT

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus) compatible. Choose fusion parameters: PE100
- NPT tapered female thread to ASTM F 1498
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PE
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	NPT (inch)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	½	IR	**753 914 266**	0.018	48	23	32	1.9
25	¾	IR	**753 914 267**	0.022	50	23	36	2.3
32	1	IR	**753 914 268**	0.038	54	23	46	2.9
40	1 ¼	IR	**753 914 269**	0.058	56	23	55	3.7
50	1 ½	IR	**753 914 270**	0.083	60	23	65	4.6
63	2	IR	**753 914 271**	0.134	62	23	80	5.8

Flanged Connections

Flange adaptors long end





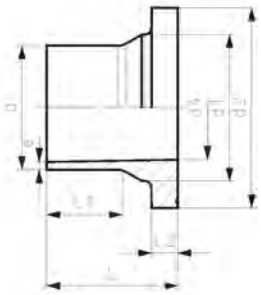
Flange adaptor PE100 SDR11
Combined jointing face: flat and serrated

Model:

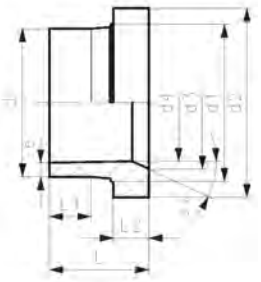
- Long spigot
- Material: PE100
- For IR, butt- and electro fusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- Type A without chamfer, Type B with chamfer
- Up to d315, suitable for butterfly valve type 567/578. Above use ecoFIT adaptor for butterfly valves SDR11 (d355-d1200)
- 10 bar Gas / 16 bar Water

* Installation support through moulded ribs

Type A



Type B

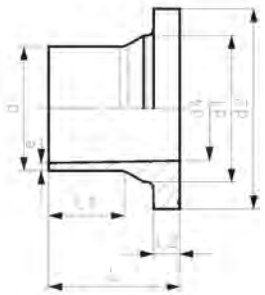


	d (mm)	DN (mm)	FM	Code	Weight (kg)
	20	15	IR	**753 800 006**	0.022
	25	20	IR	**753 800 007**	0.037
	32	25	IR	**753 800 008**	0.056
	40	32	IR	**753 800 009**	0.081
	50	40	IR	**753 800 010**	0.119
	63	50	IR	**753 800 011**	0.187
	75	65	IR	**753 800 012**	0.314
	90	80	IR	**753 800 013**	0.471
	110	100	IR	**753 800 014**	0.718
	125	100	IR	**753 800 015**	0.883
	140	125	IR	**753 800 016**	1.348
	160	150	IR	**753 800 017**	1.718
	180	150	IR	**753 800 018**	2.035
	200	200	IR	**753 800 019**	2.899
	225	200	IR	**753 800 020**	3.208
	250	250		**753 800 021**	4.878
	280	250		**753 800 022**	4.925
	315	300		**753 800 023**	7.135
*	355	350		**753 800 224**	10.400
*	400	400		**753 800 225**	14.500
*	450	500		**753 800 226**	23.700
*	500	500		**753 800 227**	27.100
	560	600		**753 800 228**	39.260
	630	600		**753 800 229**	44.260
	710	700		**753 800 030**	56.379
	800	800		**753 800 033**	72.636

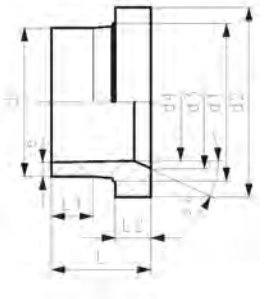
	d (mm)	DN (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type
	20	15	27	45		16	85.0	41.0	7	1.9	A
	25	20	33	58		20	90.5	62.0	9	2.3	A
	32	25	40	68		26	91.5	61.0	10	3.0	A
	40	32	50	78		32	94.5	61.5	11	3.7	A
	50	40	61	88		40	90.0	62.0	12	4.6	A
	63	50	75	102		51	98.0	69.0	14	5.8	A
	75	65	89	122	66	61	125.0	89.0	16	6.8	B
	90	80	105	138	78	73	140.0	103.0	17	8.2	B
	110	100	125	158	100	90	160.0	114.0	18	10.0	B
	125	100	132	158	114	102	170.0	125.0	25	11.4	B
	140	125	155	188	127	114	200.0	147.0	25	12.7	B
	160	150	175	212	151	130	200.0	147.0	25	14.6	B
	180	150	183	212	158	147	200.0	170.0	30	16.4	B

table continued on the next page

Type A



Type B



	d (mm)	DN (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type
	200	200	232	268	203	163	200.0	128.0	32	18.2	B
	225	200	235	268	210	184	200.0	138.0	32	20.5	B
	250	250	285	320	252	202	220.0	129.0	35	22.7	B
	280	250	291	320	265	229	231.0	144.0	35	25.4	B
	315	300	335	370	300	257	239.0	158.0	35	28.6	B
*	355	350	373	430	342	284	267.0	170.0	40	32.0	B
*	400	400	427	482	387	320	292.0	185.0	46	36.0	B
*	450	500	514	585	400	360	330.0	205.0	60	41.0	B
*	500	500	530	585	442	400	351.0	220.0	60	46.0	B
	560	600	616	685	490	458	370.0	240.0	60	50.9	B
	630	600	644	685	545	515	390.0	260.0	60	57.0	B
	710	700	737	800		581	400.0	280.0	60	64.5	A
	800	800	840	905		652	400.0	280.0	65	74.0	A

Type A



Type B



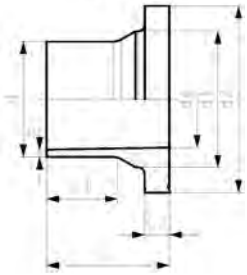
Flange adaptor PE100 SDR17/17.6
Combined jointing face: flat and serrated

Model:

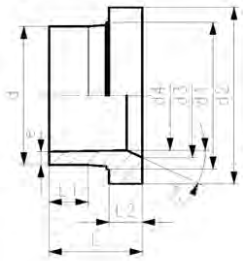
- Long spigot
- Material: PE100
- For IR, butt- and electro fusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- Type A without chamfer, Type B with chamfer
- 5 bar Gas / 10 bar Water
- Up to d400, suitable for butterfly valve type 567/578. Above use ecoFIT adaptor for butterfly valves SDR17.6 (d450-d1200)

* Installation support through moulded ribs

Type A



Type B



	d (mm)	DN (mm)	FM	Code	Weight (kg)
	50	40	IR	**753 800 085**	0.107
	63	50	IR	**753 800 086**	0.168
	75	65	IR	**753 800 087**	0.260
	90	80	IR	**753 800 088**	0.367
	110	100	IR	**753 800 089**	0.571
	125	100	IR	**753 800 090**	0.684
	140	125	IR	**753 800 091**	1.035
	160	150	IR	**753 800 092**	1.342
	180	150	IR	**753 800 093**	1.469
	200	200	IR	**753 800 094**	2.297
	225	200	IR	**753 800 095**	2.456
	250	250		**753 800 096**	3.500
	280	250		**753 800 097**	3.780
	315	300		**753 800 098**	5.470
*	355	350		**753 800 299**	7.100
*	400	400		**753 800 300**	9.600
*	450	500		**753 800 301**	16.400
*	500	500		**753 800 302**	18.500
	560	600		**753 800 303**	26.940
	630	600		**753 800 304**	44.260
	710	700		**753 800 105**	39.376
	800	800		**753 800 106**	50.759
	900	900		**753 800 107**	64.202
	1000	1000		**753 800 108**	79.495

	d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type	a°
	50	61	88		44	90	62	12	3.0	A	
	63	75	102		55	106	70	14	3.8	A	
	75	89	122		66	130	75	16	4.5	A	
	90	105	138		79	140	103	17	5.4	A	
	110	125	158		96	160	117	18	6.6	A	
	125	132	158	114	110	170	125	25	7.4	B	30
	140	155	188	127	123	200	147	25	8.3	B	30
	160	175	212	151	141	200	147	25	9.5	B	30
	180	180	212		158	200	170	30	10.7	A	
	200	232	268	203	176	200	128	32	11.9	B	30
	225	235	268	210	198	200	138	32	13.4	B	30
	250	285	320	245	220	220	148	35	14.8	B	25
	280	291	320	265	246	230	154	35	16.6	B	30
	315	335	370	300	277	242	166	36	18.7	B	30
*	355	373	430	346	310	260	170	33	21.1	B	21
*	400	427	482	395	350	282	185	36	23.7	B	21
*	450	514	585		400	316	205	46	26.7	A	
*	500	530	585		400	337	220	46	29.7	A	
	560	616	685		493	370	250	50	33.2	A	
	630	644	685		555	390	270	50	37.4	A	

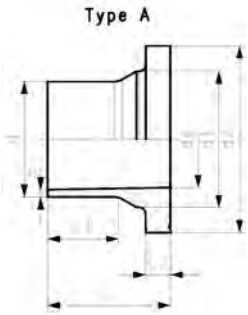
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	d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type	a°
	710	737	800		626	400	280	50	42.1	A	
	800	840	905		705	400	280	52	47.4	A	
	900	944	1005		793	400	260	55	53.3	A	
	1000	1047	1110		881	400	260	60	59.3	A	

Flange adaptors short end









ecoFIT flange adaptor SDR11
Jointing face combination serrated/flat metric

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR compatible
- Up to d315, suitable for butterfly valve type 567/578. Above use ecoFIT adaptor for butterfly valves SDR11 (d355-d800)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03

* Not suitable for butterfly valves

	d (mm)	DN (mm)	FM	Code	Weight (kg)
	20	15	IR	**753 798 306**	0.016
	25	20	IR	**753 798 307**	0.034
	32	25	IR	**753 798 308**	0.046
	40	32	IR	**753 798 309**	0.067
	50	40	IR	**753 798 310**	0.098
	63	50	IR	**753 798 311**	0.157
	75	65	IR	**753 798 312**	0.258
	90	80	IR	**753 798 313**	0.347
	110	100	IR	**753 798 314**	0.471
	125	100	IR	**753 798 315**	0.517
	140	125	IR	**753 798 316**	0.780
	160	150	IR	**753 798 317**	0.973
	180	150	IR	**753 798 318**	1.077
	200	200	IR	**753 798 319**	1.734
	225	200	IR	**753 798 320**	1.772
	250	250		**753 798 321**	2.871
	280	250		**753 798 322**	3.760
	315	300		**753 798 323**	4.925
*	355	350		**753 798 324**	7.000
*	400	400		**753 798 325**	9.500
*	450	500		**753 798 326**	18.200
*	500	500		**753 798 327**	18.700
*	560	600		**753 798 833**	19.380
*	630	600		**753 798 834**	16.500

	d (mm)	DN (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type	a°
	20	15	26	45		16	50	29	7	1.9	A	
	25	20	32	58		20	52	27	9	2.3	A	
	32	25	40	68		26	54	28	10	2.9	A	
	40	32	49	78		32	55	25	11	3.7	A	
	50	40	60	88		40	62	32	12	4.6	A	
	63	50	75	102		49	68	38	14	5.8	A	
	75	65	89	122	66	58	80	43	16	6.8	B	30
	90	80	105	138	78	70	80	42	17	8.2	B	30
	110	100	125	158	100	87	80	41	18	10.0	B	30
	125	100	132	158	114	99	82	35	25	11.4	B	25
	140	125	155	188	127	111	89	42	25	12.7	B	27
	160	150	175	212	151	127	92	40	25	14.6	B	30

table continued on the next page

	d (mm)	DN (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type	a°
	180	150	180	212	154	148	92	40	30	16.4	B	30
	200	200	232	268	203	174	100	35	32	18.2	B	30
	225	200	235	268	210	196	100	35	32	20.5	B	30
	250	250	285	320	252	203	120	45	35	22.7	B	25
	280	250	291	320	265	228	120	45	37	25.4	B	30
	315	300	335	370	300	256	150	50	50	28.6	B	22
*	355	350	373	430	342	284	162	70	40	32.2	B	45
*	400	400	427	482	387	320	172	70	46	36.3	B	45
*	450	500	514	585	400	360	225	105	60	40.9	B	15
*	500	500	530	585	442	400	231	105	60	45.4	B	15
*	560	600	615	684	490	458	135	20	60	50.8	B	30
*	630	600	642	684	545	516	135	40	60	57.2	B	30





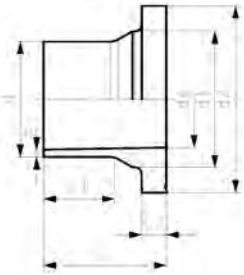
ecoFIT flange adaptor SDR17/17.6
Jointing face combination serrated/flat metric

Model:

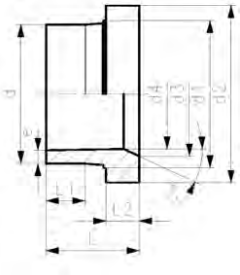
- Material: PE100
- Conventional butt-welding according to DVS 2207
- IR compatible
- Up to d400, suitable for butterfly valve type 567/578 and 038/039. Above use ecoFIT adaptor for butterfly valves SDR17.6 (d450-d1200)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03

* Not suitable for butterfly valves

Type A



Type B



	d (mm)	DN (mm)	FM	Code	Weight (kg)
	50	40	IR	**753 798 210**	0.093
	63	50	IR	**753 798 211**	0.118
	75	65	IR	**753 798 212**	0.220
	90	80	IR	**753 798 213**	0.291
	110	100	IR	**753 798 214**	0.389
	125	100	IR	**753 798 215**	0.421
	140	125	IR	**753 798 216**	0.648
	160	150	IR	**753 798 217**	0.703
	180	150	IR	**753 798 218**	0.739
	200	200	IR	**753 798 219**	1.331
	225	200	IR	**753 798 220**	1.304
	250	250		**753 798 221**	2.272
	280	250		**753 798 222**	2.154
	315	300		**753 798 223**	3.819
	355	350		**753 798 224**	4.800
	400	400		**753 798 225**	6.400
*	450	500		**753 798 226**	12.700
*	500	500		**753 798 227**	13.000
*	560	600		**753 798 858**	14.875
*	630	600		**753 798 859**	12.515

	d (mm)	DN (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type	a°
	50	40	60	88	-	44	62	32	12	2.9	A	
	63	50	75	102	-	55	68	38	14	3.8	A	
	75	65	89	122	-	63	80	43	16	4.5	A	
	90	80	105	138	-	76	80	42	17	5.4	A	
	110	100	125	158	-	94	80	42	18	6.6	A	
	125	100	132	158	114	110	82	35	25	7.4	B	25
	140	125	155	188	127	123	89	39	25	8.3	B	27
	160	150	175	212	158	138	92	47	18	9.5	B	30
	180	150	180	212		158	92	45	20	10.7	A	
	200	200	232	268	203	174	100	42	24	11.9	B	30
	225	200	235	268	210	196	100	42	24	13.4	B	30

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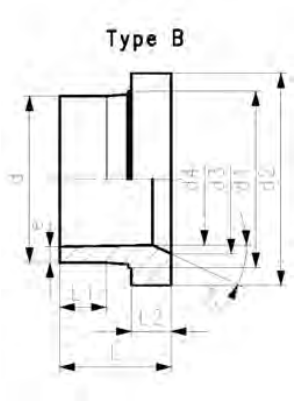
	d (mm)	DN (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type	a°
	250	250	285	320	252	221	120	45	25	14.8	B	25
	280	250	291	320	265	247	120	45	35	16.6	B	30
	315	300	335	370	300	278	150	50	50	18.7	B	21
	355	350	373	430	346	310	155	70	33	21.1	B	21
	400	400	427	482	395	350	162	70	36	23.7	B	21
*	450	500	514	585	400	400	211	105	46	26.7	B	4
*	500	500	530	585	446	442	217	105	46	29.7	A	2
*	560	600	615	685		493	142	60	50	33.2	A	
*	630	600	642	685		555	144	71	50	37.4	A	



ecoFIT adaptor for butterfly valves SDR11
Jointing face flat metric

Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- Suitable for butterfly valve type 567/578 and 038/039



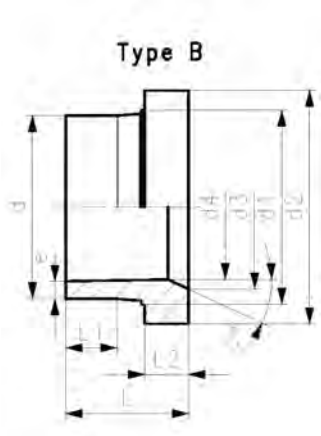
d (mm)	DN (mm)	Code	Weight (kg)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type	a°
355	350	**753 798 924**	8.400	373	430	350	284	187	70	65	33.9	B	25
400	400	**753 798 925**	11.000	427	482	400	320	196	70	70	38.2	B	25
450	450	**753 798 926**	18.800	467	533	450	360	272	105	107	43.0	B	23
500	500	**753 798 927**	19.900	530	585	498	400	261	105	90	47.8	B	25
560	600	**753 798 728**	29.270	615	685	610	458	282	60	147	50.8	B	21
630	600	**753 798 729**	23.042	642	685	610	515	210	60	132	57.2	B	21



ecoFIT adaptor for butterfly valves SDR17/17.6
Jointing face flat metric

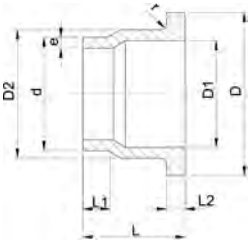
Model:

- Material: PE100
- Conventional butt-welding according to DVS 2207
- Suitable for butterfly valve type 567/578 and 038/039



d (mm)	DN (mm)	Code	Weight (kg)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type	a°
450	450	**753 798 951**	10.700	467	533	451	397	224	105	59	27.5	B	23
500	500	**753 798 952**	12.100	530	585	498	440	217	105	46	30.5	B	25
560	600	**753 798 753**	17.307	615	685	610	493	227	60	92	33.2	B	21
630	600	**753 798 754**	12.122	642	685	610	555	149	60	71	37.4	B	21





ecoFIT outlet flange adaptor SDR11

Model:

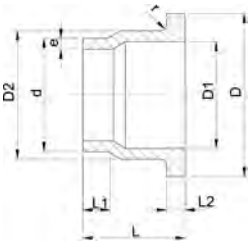
- Material: PE80
- Suitable for wafer check valves Type 369
- Conventional butt-welding according to DVS 2207

Attention:

- In conjunction with outlet flange adaptors, **flange rings for socket systems** must be used.

DN (mm)	d (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	r (mm)
32	40	**733 808 034**	0.073	80	37	50	64	30	11	3.7	3
40	50	**733 808 035**	0.104	90	43	61	67	30	12	4.6	3
50	63	**733 808 036**	0.172	105	54	76	74	30	14	5.8	4
65	75	**733 808 037**	0.242	125	70	90	78	30	16	6.8	4
80	90	**733 808 038**	0.348	140	82	108	87	35	17	8.2	4
100	110	**733 808 039**	0.508	160	105	131	102	41	18	10.0	4
125	140	**733 808 041**	0.976	190	130	165	124	47	25	12.7	4
150	160	**733 808 042**	1.337	215	158	188	149	52	25	14.6	4
200	225	**733 808 045**	2.814	270	206	248	180	55	32	20.5	4
250	280	**733 808 047**	4.374	325	259	308	240	63	35	25.4	4
300	315	**733 808 048**	4.960	375	308	346	272	66	35	28.6	4





ecoFIT outlet flange adaptor SDR17.6

Model:

- Material: PE80
- Conventional butt-welding according to DVS 2207
- Suitable for wafer check valves Type 369

Attention:

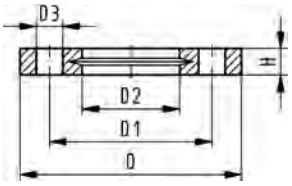
- In conjunction with outlet flange adaptors, **flange rings for socket systems** must be used.

d (mm)	DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	r (mm)
40	32	**733 808 009**	0.060	80	37	50	64	30	11	2.3	3
50	40	**733 808 010**	0.067	90	43	61	67	30	12	2.9	3
63	50	**733 808 011**	0.159	105	54	76	74	30	14	3.6	4
75	65	**733 808 012**	0.219	125	70	90	78	30	16	4.3	4
90	80	**733 808 013**	0.314	140	82	108	87	35	17	5.1	4
110	100	**733 808 014**	0.465	160	105	131	102	41	18	6.3	4
140	125	**733 808 016**	0.862	190	130	165	124	47	18	8.0	4
160	150	**733 808 017**	1.176	215	158	188	149	52	18	9.1	4
225	200	**733 808 020**	2.484	270	206	248	180	55	24	12.8	4
280	250	**733 808 022**	2.230	325	259	308	240	63	25	15.9	4
315	300	**733 808 023**	2.450	375	308	346	272	66	25	17.9	4

Flanges for butt fusion systems







Backing flange PP-V metric
For butt fusion systems metric

Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes

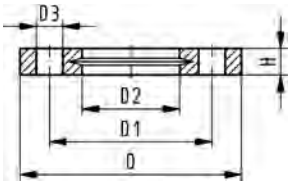
[1]) Suitable for socket- and butt fusion systems

[2]) Combined version, metric-ANSI

	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	20	15	16	**727 700 406**	0.093	95	65	28	14	16	4	M12
1	25	20	16	**727 700 407**	0.120	105	75	34	14	17	4	M12
1	32	25	16	**727 700 408**	0.151	115	85	42	14	18	4	M12
1	40	32	16	**727 700 409**	0.244	140	100	51	18	20	4	M16
1	50	40	16	**727 700 410**	0.297	150	110	62	18	22	4	M16
1	63	50	16	**727 700 411**	0.362	165	125	78	18	24	4	M16
1	75	65	16	**727 700 412**	0.487	185	145	92	18	26	4	M16
	90	80	16	**727 700 513**	0.544	200	160	108	18	27	8	M16
	110	100	16	**727 700 514**	0.643	220	180	128	18	28	8	M16
	125	100	16	**727 700 515**	0.635	220	180	135	18	28	8	M16
	140	125	16	**727 700 516**	0.842	250	210	158	18	30	8	M16
2	160	150	16	**727 700 517**	1.200	285	240	178	22	32	8	M20
	180	150	16	**727 700 518**	1.200	285	240	188	22	32	8	M20
2	200	200	16	**727 700 519**	1.400	340	295	235	22	34	8	M20
2	225	200	16	**727 700 520**	1.400	340	295	238	22	34	8	M20
	250	250	10	**727 700 521**	2.052	395	350	288	22	38	12	M20
	280	250	10	**727 700 522**	1.700	395	350	294	22	38	12	M20
	315	300	10	**727 700 523**	2.400	445	400	338	22	42	12	M20
	355	350	10	**727 700 524**	4.440	515	460	376	22	46	16	M20
	400	400	10	**727 700 525**	5.624	574	515	430	26	50	16	M24







Backing flange PP-V Inch ANSI
For butt fusion systems metric

Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

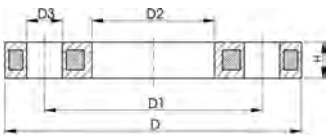
[1]) Suitable for socket- and butt fusion systems

[2]) Combined version, metric-ANSI

	Size (inch)	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	½	20	15	16	**727 701 406**	0.091	95	60	28	16	16	4	M12
1	¾	25	20	16	**727 701 407**	0.120	105	70	34	16	17	4	M12
1	1	32	25	16	**727 701 408**	0.147	115	79	42	16	18	4	M12
1	1 ¼	40	32	16	**727 701 409**	0.246	140	89	51	16	20	4	M16
1	1 ½	50	40	16	**727 701 410**	0.299	150	98	62	16	22	4	M16
1	2	63	50	16	**727 701 411**	0.361	165	121	78	19	24	4	M16
1	2 ½	75	65	16	**727 701 412**	0.492	185	140	92	19	26	4	M16
	3	90	80	16	**727 701 513**	0.607	200	152	108	19	27	4	M16
	4	110	100	16	**727 701 514**	0.736	229	190	128	19	28	8	M16
2	6	160	150	16	**727 700 517**	1.200	285	240	178	22	32	8	M20
2	8	200	200	16	**727 700 519**	1.400	340	295	235	22	34	8	M20
2	8	225	200	16	**727 700 520**	1.400	340	295	238	22	34	8	M20
	10	250	250	10	**727 701 521**	2.241	406	362	288	26	38	12	M20
	10	280	250	10	**727 701 522**	2.173	406	362	294	26	38	12	M20
	12	315	300	10	**727 701 523**	3.627	483	432	338	26	42	12	M20







Backing flange PP-Steel metric
For butt fusion systems metric

Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes

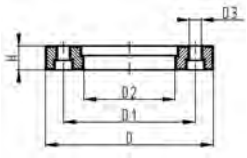
[1]) Suitable for socket -and butt fusion systems

[2]) Combined version, bolt circle metric - ANSI

	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	20	15	16	**727 700 206**	0.216	95	65	28	14	12	4	M12
1	25	20	16	**727 700 207**	0.279	105	75	34	14	12	4	M12
1	32	25	16	**727 700 208**	0.429	115	85	42	14	16	4	M12
1	40	32	16	**727 700 209**	0.621	140	100	51	18	16	4	M16
1	50	40	16	**727 700 210**	0.722	150	110	62	18	20	4	M16
1	63	50	16	**727 700 211**	0.900	165	125	78	18	20	4	M16
1	75	65	16	**727 700 212**	1.110	185	145	92	18	20	4	M16
	90	80	16	**727 700 313**	1.390	200	160	108	18	20	8	M16
	110	100	16	**727 700 314**	1.407	220	180	128	18	20	8	M16
	125	100	16	**727 700 315**	1.408	220	180	135	18	20	8	M16
	140	125	16	**727 700 716**	2.318	250	210	158	18	26	8	M16
2	160	150	16	**727 700 717**	3.491	285	240	178	22	26	8	M20
	180	150	16	**727 700 718**	3.108	285	240	188	22	26	8	M20
2	200	200	16	**727 700 719**	5.600	340	295	235	22	29	8	M20
2	225	200	16	**727 700 720**	5.533	340	295	238	22	29	8	M20
	250	250	16	**727 700 721**	6.632	395	350	288	22	32	12	M20
	280	250	16	**727 700 722**	6.573	395	350	294	22	32	12	M20
	315	300	16	**727 700 723**	7.903	445	400	338	22	36	12	M20
	355	350	16	**727 700 724**	14.587	515	460	376	23	42	16	M20
	400	400	16	**727 700 725**	20.034	574	515	430	26	42	16	M24







Profiled backing flange PP-Steel metric
For butt fusion systems metric

Model:

- PP with glass-fibre reinforcement and GGG 50 insert
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

Note:

flat side = bolt side profiled side = flange adaptor side

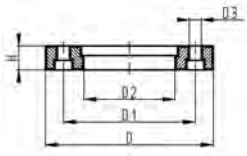
AL: number of holes

* Galvanized steel S235-JR, suitable for underground laying

	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	AL	SC
*	450	450	10	**724 705 026**	38.000	615	565	470	26	36	20	M24
	450	500	10	**724 700 426**	25.600	685	620	517	26	56	20	M24
	500	500	10	**724 700 427**	21.061	685	620	533	26	56	20	M24
	560	600	10	**724 700 428**	35.000	796	725	618	30	68	20	M27
	630	600	10	**724 700 429**	28.500	800	725	645	30	68	20	M27
	710	700	6	**724 700 430**	25.500	912	840	740	30	49	24	M27
	800	800	6	**724 700 431**	39.300	1026	950	843	33	58	24	M30
	900	900	6	**724 700 432**	48.500	1129	1050	947	33	62	28	M30







Profiled backing flange PP-Steel metric
For butt fusion systems metric

Model:

- PP with glass-fibre reinforcement and GGG 50 insert
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 16**

Note:

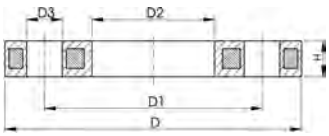
flat side = bolt side profiled side = flange adaptor side

AL: number of holes

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	AL	SC
200	200	16	**724 700 319**	3.549	344	295	235	22	31	12	M20
225	200	16	**724 700 320**	3.380	344	295	238	22	31	12	M20
250	250	16	**724 700 321**	6.390	410	355	288	26	35	12	M24
280	250	16	**724 700 322**	6.310	410	355	294	26	36	12	M24
315	300	16	**724 700 323**	9.740	455	410	338	26	43	12	M24
355	350	16	**724 700 324**	15.203	521	470	376	26	55	16	M24
400	400	16	**724 700 325**	20.600	582	525	430	30	56	16	M27







Backing flange PP-Steel Inch/ANSI
For butt fusion systems metric

Model:

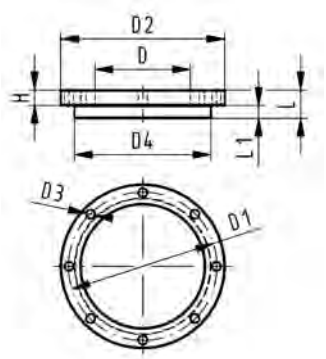
- Material: PP (30% glass-fibre reinforced) with steel ring
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- Special flange adapter ANSI for d25 - d50 and d90 required

[1]) Suitable for socket -and butt fusion systems
[2]) Combined version, bolt circle metric - ANSI
AL: number of holes

	d (inch)	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)
1	½	20	15	16	**727 701 206**	0.213
1	¾	25	20	16	**727 701 207**	0.260
1	1	32	25	16	**727 701 208**	0.416
1	1 ¼	40	32	16	**727 701 209**	0.730
1	1 ½	50	40	16	**727 701 210**	0.809
1	2	63	50	16	**727 701 211**	0.866
1	2 ½	75	65	16	**727 701 212**	1.117
	3	90	80	16	**727 701 313**	1.499
	4	110	100	16	**727 701 314**	1.739
2	6	160	150	16	**727 700 717**	3.491
2	8	200	200	16	**727 700 719**	5.600
2	8	225	200	16	**727 700 720**	5.533
	10	250/280	250	10	**727 701 321**	6.000
	12	315	300	10	**727 701 322**	11.800
	14	355	350	10	**727 701 323**	17.900
	16	400	400	10	**727 701 324**	24.500
	20	450/500	500	10	**727 701 325**	33.600

	d (inch)	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	½	20	95	60	28	16	12	4	M12
1	¾	25	105	70	34	16	12	4	M12
1	1	32	115	79	42	16	16	4	M12
1	1 ¼	40	140	89	51	16	16	4	M16
1	1 ½	50	150	98	62	16	18	4	M16
1	2	63	165	121	78	19	18	4	M16
1	2 ½	75	185	140	92	19	18	4	M16
	3	90	200	152	108	19	20	4	M16
	4	110	229	190	128	19	20	8	M16
2	6	160	285	241	178	22	26	8	M20
2	8	200	340	297	235	22	29	8	M20
2	8	225	340	297	238	22	29	8	M20
	10	250/280	406	362	293	25	30	12	M24
	12	315	483	432	338	25	34	12	M24
	14	355	540	476	376	29	42	12	M27
	16	400	597	539	429	29	44	16	M27
	20	450/500	712	635	540	32	53	20	M30





Blanking flange set PE
Combined jointing face flat and serrated metric

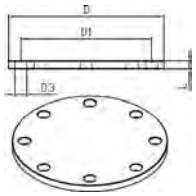
Model:

- d63 - d315: backing flange PP-V with end blank PE
- d355 - d630: backing flange PP/Steel with end blank PE
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

AL: number of holes
L: length of the End Blank

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	L (mm)	L1 (mm)	H (mm)	AL	SC
63	50	16	**753 700 611**	0.560	75	125	165	18	102	30	14	24	4	M16
75	65	16	**753 700 612**	0.910	89	145	185	18	122	30	16	26	4	M16
90	80	16	**753 700 613**	0.921	105	160	200	18	138	30	17	27	8	M16
110	100	16	**753 700 614**	1.158	125	180	220	18	158	30	18	28	8	M16
125	100	16	**753 700 615**	1.678	132	180	220	18	158	35	25	28	8	M16
140	125	16	**753 700 616**	1.913	155	210	250	18	188	40	25	30	8	M16
160	150	16	**753 700 617**	2.373	175	240	285	22	212	40	25	32	8	M20
180	150	16	**753 700 618**	2.430	180	240	285	22	212	45	30	32	8	M20
200	200	16	**753 700 619**	3.495	232	295	340	22	268	50	32	34	8	M20
225	200	16	**753 700 620**	3.744	235	295	340	22	268	50	32	34	8	M20
250	250	16	**753 700 621**	6.051	285	350	395	22	320	55	35	38	12	M20
280	250	16	**753 700 622**	6.305	291	350	395	22	320	60	35	38	12	M20
315	300	16	**753 700 623**	8.894	335	400	445	22	370	65	35	42	12	M20
355	350	16	**753 700 624**	23.198	373	460	515	22	430	70	40	40	16	M20
400	400	16	**753 700 625**	30.766	427	515	574	26	482	75	46	40	16	M24
450	500	10	**753 700 626**	44.271	510	620	684	26	585	80	60	49	20	M24
500	500	10	**753 700 627**	47.165	530	620	684	26	585	90	60	49	20	M24
560	600	10	**753 700 628**	67.147	615	725	796	30	685	100	60	58	20	M27
630	600	10	**753 700 629**	68.574	642	725	796	30	685	110	60	68	20	M27





Blanking Flanges PE100

Model:

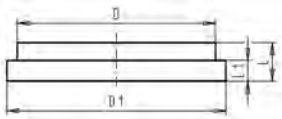
- Made out of sheet material
- **Bolt circle PN 10**

Remark:

- max. Druck 2,5 bar

d (mm)	PN (bar)	DN (mm)	Code	SP	Weight (kg)	AL	D (mm)	L (mm)	D1 (mm)	D3 (mm)
63	2.5	50	**700 647 886**	0	0.362	4	165	15	125	18
75	2.5	65	**700 647 887**	0	0.487	4	185	15	145	18
90	2.5	80	**700 647 888**	0	0.544	8	200	15	160	18
110	2.5	100	**700 647 889**	0	0.643	8	220	15	180	18
125	2.5	100	**700 647 890**	0	0.658	8	220	15	180	18
140	2.5	125	**700 647 891**	0	0.842	8	250	15	210	18
160	2.5	150	**700 647 892**	0	1.200	8	285	20	240	22
180	2.5	150	**700 647 893**	0	1.350	8	285	25	240	22
200	2.5	200	**700 647 894**	0	1.400	8	340	25	295	22
225	2.5	200	**700 647 895**	0	1.450	8	340	30	295	22
250	2.5	250	**700 647 896**	0	2.052	12	395	30	350	22
280	2.5	250	**700 647 897**	0	2.380	12	395	30	350	22
315	2.5	300	**700 647 898**	0	2.400	12	445	40	400	22
355	2.5	350	**700 647 899**	0	4.400	16	515	40	460	22
400	2.5	400	**700 647 900**	0	5.620	16	574	45	515	26
450	2.5	500	**700 647 901**	0	6.120	20	670	55	620	26
500	2.5	500	**700 647 902**	0	7.100	20	670	60	620	26
560	2.5	600	**700 647 903**	0	7.650	20	780	65	725	30
630	2.5	600	**700 647 904**	0	8.200	20	780	75	725	30





End blank PE
For butt fusion systems metric

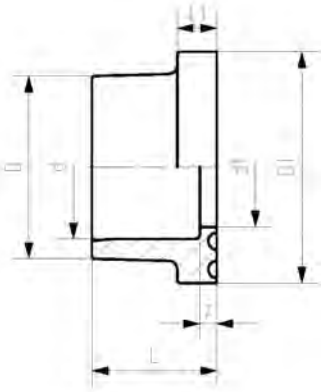
Model:

- Suitable for metric backing flanges

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)
63	50	16	**753 960 611**	0.154	75	102	30	14
75	65	16	**753 960 612**	0.268	89	122	30	16
90	80	16	**753 960 613**	0.363	105	138	30	17
110	100	16	**753 960 614**	0.490	125	158	30	18
125	100	16	**753 960 615**	0.478	132	158	35	25
140	125	16	**753 960 616**	0.713	155	188	40	25
160	150	16	**753 960 617**	1.196	175	212	40	25
180	150	16	**753 960 618**	1.030	180	212	45	30
200	200	16	**753 960 619**	1.795	232	268	50	32
225	200	16	**753 960 620**	2.044	235	268	50	32
250	250	16	**753 960 621**	3.158	285	320	55	35
280	250	16	**753 960 622**	4.157	291	320	60	35
315	300	16	**753 960 623**	5.249	335	370	65	35
355	350	16	**753 960 624**	7.698	373	430	70	40
400	400	16	**753 960 625**	12.185	427	482	75	46
450	500	10	**753 960 626**	19.619	510	585	80	60
500	500	10	**753 960 627**	22.130	530	585	90	60
560	600	10	**753 960 628**	31.447	615	685	100	60
630	600	10	**753 960 629**	36.074	642	685	110	60

Flange adaptors for socket fusion systems





ecoFIT flange adaptor
Jointing face flat/serrated

Model:

- Material: PE100
- Counterpart: flange adaptor flat/serrated or with O-ring groove
- Connection: according to EN ISO 15494-, DIN 16963-11
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07
- Flanges: PP - steel, No. 27 70 02, PP-V, No 27 70 04

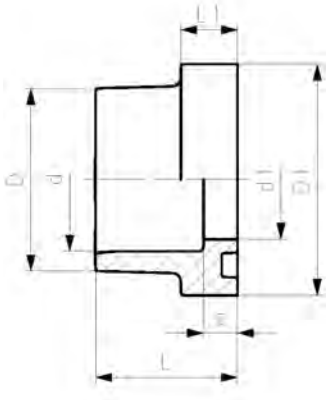
d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
20	15	10	**753 790 206**	0.013	27	45	16	19	7	5
25	20	10	**753 790 207**	0.022	33	58	21	21	9	5
32	25	10	**753 790 208**	0.035	41	68	28	23	10	5
40	32	10	**753 790 209**	0.052	50	78	36	25	11	5
50	40	10	**753 790 210**	0.061	61	88	45	28	12	5
63	50	10	**753 790 211**	0.095	76	102	57	32	14	5
75	65	10	**753 790 212**	0.163	90	122	69	36	16	5
90	80	10	**753 790 213**	0.203	108	138	84	42	17	7
110	100	10	**753 790 214**	0.293	131	158	100	48	18	7



ecoFIT flange adaptor
Jointing face with o-ring groove

Model:

- Material: PE80
- Counterpart: flange adaptor flat/serrated 53 79 02
- Gasket: O-ring EPDM
- Flanges: PP - steel, No. 27 70 02, PP-V, No 27 70 04



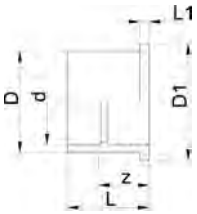
d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
20	15	10	**733 810 106**	0.008	27	34	16	22	9	8
25	20	10	**733 810 107**	0.012	33	41	21	24	10	8
32	25	10	**733 810 108**	0.019	41	50	28	26	10	8
40	32	10	**733 810 109**	0.031	50	61	36	30	13	10
50	40	10	**733 810 110**	0.044	61	73	45	33	13	10
63	50	10	**733 810 111**	0.072	76	90	57	37	14	10
75	65	10	**733 810 112**	0.112	90	106	69	40	15	10
90	80	10	**733 810 113**	0.185	108	125	84	47	16	12
110	100	10	**733 810 114**	0.285	131	150	100	55	18	13



ecoFIT outlet flange adaptor
Jointing face flat

Model:

- Material: PE80
- With fusion socket metric
- Suitable for wafer check valves Type 369
- To be installed on the outlet side of the valve
- Use flanges PP-V 27 70 04

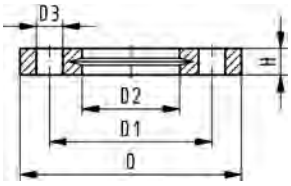


d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
40	32	6	**733 800 009**	0.065	50	78	55	11	35
50	40	6	**733 800 010**	0.088	61	88	61	12	38
63	50	6	**733 800 011**	0.136	76	102	69	14	41
75	65	6	**733 800 012**	0.223	90	122	79	16	49
90	80	6	**733 800 013**	0.357	107	138	100	17	65
110	100	6	**733 800 014**	0.482	130	158	105	18	62

Flanges for socket fusion systems







Backing flange PP-V metric
For socket systems metric and BS

Model:

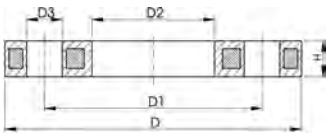
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**
- Full-plastic flange PP-GF (30 % glass-fibre reinforced)

[1]) Suitable for socket- and butt fusion systems
[2]) Not for BS
[3]) Combined version, metric - ANSI
AL: number of holes

	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	20	15	16	**727 700 406**	0.093	95	65	28	14	16	4	M12
1	25	20	16	**727 700 407**	0.120	105	75	34	14	17	4	M12
1	32	25	16	**727 700 408**	0.151	115	85	42	14	18	4	M12
1	40	32	16	**727 700 409**	0.244	140	100	51	18	20	4	M16
1	50	40	16	**727 700 410**	0.297	150	110	62	18	22	4	M16
1	63	50	16	**727 700 411**	0.362	165	125	78	18	24	4	M16
1	75	65	16	**727 700 412**	0.487	185	145	92	18	26	4	M16
	90	80	16	**727 700 413**	0.550	200	160	110	18	27	8	M16
2	110	100	16	**727 700 414**	0.640	220	180	133	18	28	8	M16
	140	125	16	**727 700 416**	0.781	250	210	167	18	30	8	M16
2/3	160	150	16	**727 700 417**	1.050	285	240	190	22	32	8	M20
3	200	200	16	**727 700 419**	1.629	340	295	226	22	34	8	M20
3	225	200	16	**727 700 420**	1.400	340	295	250	22	34	8	M20
	250	250	10	**727 700 421**	2.229	395	350	277	22	38	12	M20
	280	250	10	**727 700 422**	1.651	395	350	310	22	38	12	M20
	315	300	10	**727 700 423**	2.461	445	400	348	22	42	12	M20
	355	350	10	**727 700 424**	3.000	515	460	388	22	46	16	M20
	400	400	10	**727 700 425**	5.135	574	515	442	26	50	16	M24







Backing flange PP-Steel metric
For socket systems metric and BS

Model:

- **Bolt circle PN 10**
- PP-GF (30% glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

AL: number of holes

[1]) Suitable for socket -and butt fusion systems

[2]) Not for BS

[3]) Connecting dimension: ISO 2536. bolt circle acc. DN125. suitable for flange adaptor d125/ DN100

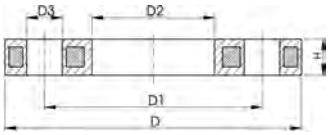
[4]) Connecting dimension: ISO 2536. bolt circle acc. DN225. suitable for flange adaptor d250/ DN250

[5]) Combined version, bolt circle metric - ANSI

	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D1 (mm)	D3 (mm)	D2 (mm)	D (mm)	H max. (mm)	AL
1	20	15	16	**727 700 206**	0.216	65	14	28	95	12	4
1	25	20	16	**727 700 207**	0.279	75	14	34	105	12	4
1	32	25	16	**727 700 208**	0.429	85	14	42	115	16	4
1	40	32	16	**727 700 209**	0.621	100	18	51	140	16	4
1	50	40	16	**727 700 210**	0.722	110	18	62	150	20	4
1	63	50	16	**727 700 211**	0.900	125	18	78	165	20	4
1	75	65	16	**727 700 212**	1.110	145	18	92	185	20	4
	90	80	16	**727 700 213**	1.369	160	18	110	200	20	8
2	110	100	16	**727 700 214**	1.522	180	18	133	220	20	8
2	125	125	16	**727 700 815**	2.475	210	18	150	250	26	8
	140	125	16	**727 700 816**	2.033	210	18	167	250	26	8
2/5	160	150	16	**727 700 817**	3.167	240	22	190	285	26	8
5	200	200	16	**727 700 819**	6.143	295	22	226	340	29	8
5	225	200	16	**727 700 820**	4.448	295	22	250	340	29	8
	250	250	16	**727 700 821**	7.179	350	22	277	395	32	12
4	250	225	16	**727 700 031**	8.340	325	22	277	395	32	8
	280	250	16	**727 700 822**	5.547	350	22	310	395	32	12
	315	300	16	**727 700 823**	6.980	400	22	348	445	36	12
	355	350	16	**727 700 824**	12.465	460	23	388	515	42	16
	400	400	16	**727 700 825**	17.607	515	26	442	574	42	16







Backing Flange PP-Steel Inch/ANSI
For socket systems metric and BS

Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- Special flange adapter ANSI for d25 - d50 and d90 required

[1]) Suitable for socket -and butt fusion systems

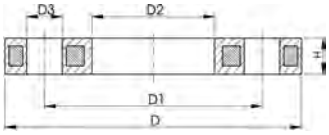
[2]) Not for BS

[3]) Combined version, bolt circle metric - ANSI

AL: number of holes

	d (inch)	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	½	20	15	16	**727 701 206**	0.213	95	60	28	16	12	4	M12
1	¾	25	20	16	**727 701 207**	0.260	105	70	34	16	12	4	M12
1	1	32	25	16	**727 701 208**	0.416	115	79	42	16	16	4	M12
1	1 ¼	40	32	16	**727 701 209**	0.730	140	89	51	16	16	4	M16
1	1 ½	50	40	16	**727 701 210**	0.809	150	98	62	16	18	4	M16
1	2	63	50	16	**727 701 211**	0.866	165	121	78	19	18	4	M16
1	2 ½	75	65	16	**727 701 212**	1.117	185	140	92	19	18	4	M16
	3	90	80	16	**727 701 213**	1.492	200	152	110	19	20	4	M16

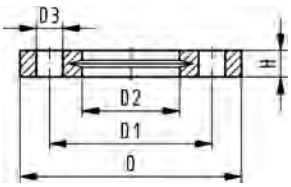
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	d (inch)	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
2	4	110	100	16	**727 701 214**	1.695	229	190	133	19	20	8	M16
2/3	6	160	150	16	**727 700 817**	3.167	285	241	190	22	26	8	M20
3	8	200	200	16	**727 700 819**	6.143	340	297	226	22	29	8	M20
3	8	225	200	16	**727 700 820**	4.448	340	297	250	22	29	8	M20







Backing flange PP-V Inch ANSI
For socket systems metric and BS

Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

[1]) Suitable for socket- and butt fusion systems

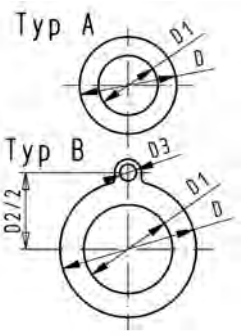
[2]) Not for BS

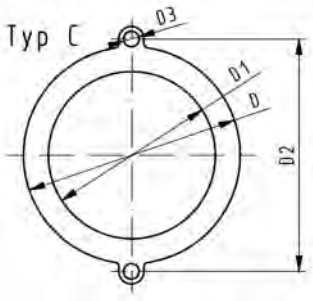
[3]) Combined version, metric - ANSI

	Size (inch)	DN (mm)	d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	½	15	20	16	**727 701 406**	0.091	95	60	28	16	16	4	M12
1	¾	20	25	16	**727 701 407**	0.120	105	70	34	16	17	4	M12
1	1	25	32	16	**727 701 408**	0.147	115	79	42	16	18	4	M12
1	1 ¼	32	40	16	**727 701 409**	0.246	140	89	51	16	20	4	M16
1	1 ½	40	50	16	**727 701 410**	0.299	150	98	62	16	22	4	M16
1	2	50	63	16	**727 701 411**	0.361	165	121	78	19	24	4	M16
1	2 ½	65	75	16	**727 701 412**	0.492	185	140	92	19	26	4	M16
	3	80	90	16	**727 701 413**	0.605	200	152	110	19	27	4	M16
2	4	100	110	16	**727 701 414**	0.704	229	190	133	19	28	8	M16
2/3	6	150	160	16	**727 700 417**	1.050	285	240	190	22	32	8	M20
3	8	200	200	16	**727 700 419**	1.629	340	295	226	22	34	8	M20
3	8	200	225	16	**727 700 420**	1.400	340	295	250	22	34	8	M20
	10	250	280	10	**727 701 422**	1.838	406	362	310	26	38	12	M20
	12	300	315	10	**727 701 423**	3.482	483	432	348	26	42	12	M20

Gaskets for socket fusion







Flat gasket
EPDM

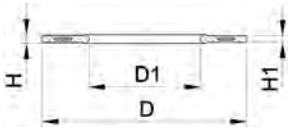
Model:

- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors

d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	di FA (mm)
16	10	10	A	**748 400 305**	0.004	46	16			2	6 - 26
20	15	10	A	**748 400 306**	0.012	51	20			2	10 - 30
25	20	10	A	**748 400 307**	0.004	61	25			2	15 - 35
32	25	10	A	**748 400 308**	0.008	71	32			2	22 - 42
40	32	10	A	**748 400 309**	0.013	82	40			3	30 - 50
50	40	10	A	**748 400 310**	0.016	92	50			3	40 - 60
63	50	10	A	**748 400 311**	0.018	107	63			3	53 - 73
75	65	10	A	**748 400 312**	0.029	127	71			3	61 - 81
90	80	10	A	**748 400 313**	0.035	142	84			3	74 - 94
110	100	10	B	**748 400 314**	0.051	162	104	180	18	4	94 - 114
125	100	10	B	**748 400 315**	0.044	162	119	180	18	4	109 - 129
140	125	10	B	**748 400 316**	0.068	192	134	210	18	4	124 - 144
160 - 180	150	10	B	**748 400 317**	0.090	218	155	241	22	4	145 - 165
200	200	6	C	**748 400 319**	0.180	273	195	295	22	5	185 - 205
225	200	6	C	**748 400 320**	0.140	273	216	295	22	5	206 - 226
250	250	6	C	**748 400 321**	0.210	328	250	350	22	5	240 - 260
280	250	6	C	**748 400 322**	0.151	328	273	350	22	5	263 - 283
315	300	6	C	**748 400 323**	0.237	378	305	400	22	5	295 - 315





Profile Flange Gasket, metric
EPDM / FKM

Model:

- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring

di FA are the suitable inner diameters of flanges adaptors

d (mm)	PN (bar)	DN (mm)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
16	16	10	**748 440 705**	**749 440 705**	0.012	46	16	6 - 16	4	3
20	16	15	**748 440 706**	**749 440 706**	0.013	51	20	10 - 20	4	3
25	16	20	**748 440 707**	**749 440 707**	0.014	61	22	12 - 22	4	3
32	16	25	**748 440 708**	**749 440 708**	0.019	71	28	18 - 28	4	3
40	16	32	**748 440 709**	**749 440 709**	0.026	82	40	30 - 40	4	3
50	16	40	**748 440 710**	**749 440 710**	0.039	92	46	36 - 46	4	3
63	16	50	**748 440 711**	**749 440 711**	0.050	107	58	48 - 58	5	4
75	16	65	**748 440 712**	**749 440 712**	0.082	127	69	59 - 69	5	4
90	16	80	**748 440 713**	**749 440 713**	0.083	142	84	73 - 84	5	4
110	16	100	**748 440 714**	**749 440 714**	0.127	162	104	94 - 104	6	5
125	16	100	**748 440 715**	**749 440 715**	0.105	162	123	113 - 123	6	5
140	16	125	**748 440 716**	**749 440 716**	0.173	192	137	127 - 137	6	5
160 - 180	16	150	**748 440 717**	**749 440 717**	0.207	218	160	150 - 160	8	6
200	16	200	**748 440 719**	**749 440 719**	0.263	273	203	192 - 203	8	6
225	16	200	**748 440 720**	**749 440 720**	0.255	273	220	207 - 220	8	6
250	16	250	**748 440 721**	**749 440 721**	0.462	328	252	238 - 252	8	6
280	16	250	**748 440 722**	**749 440 722**	0.323	328	274	264 - 274	8	6
315	16	300	**748 440 723**	**749 440 723**	0.549	378	306	296 - 306	8	6
355	16	350	**748 440 724**	**749 440 724**	0.870	438	355	340 - 355	10	7
400	16	400	**748 440 725**	**749 440 725**	1.088	489	400	385 - 400	10	7
450	16	500	**748 440 726**	**749 440 726**	0.718	594	403	393 - 403	10	7
500	16	500	**748 440 727**	**749 440 727**	0.718	594	447	437 - 447	10	7
560	16	600	**748 440 728**	**749 440 728**	0.923	695	494	484 - 494	10	7
630	16	600	**748 440 729**	**749 440 729**	0.923	695	555	545 - 555	10	7

Gaskets for butt fusion

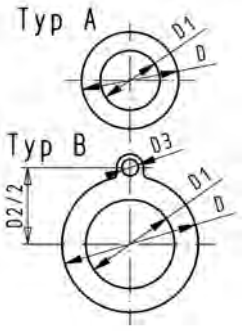


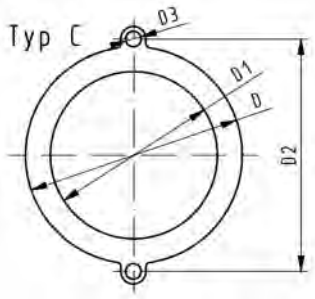
Flat gasket
EPDM

Model:

- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors





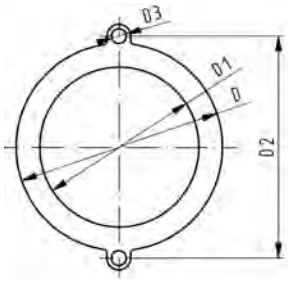
d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	di FA (mm)
16	10	10	A	**748 400 305**	0.004	46	16			2	6 - 26
20	15	10	A	**748 400 306**	0.012	51	20			2	10 - 30
25	20	10	A	**748 400 307**	0.004	61	25			2	15 - 35
32	25	10	A	**748 400 308**	0.008	71	32			2	22 - 42
40	32	10	A	**748 400 309**	0.013	82	40			3	30 - 50
50	40	10	A	**748 400 310**	0.016	92	50			3	40 - 60
63	50	10	A	**748 400 311**	0.018	107	63			3	53 - 73
75	65	10	A	**748 400 312**	0.029	127	71			3	61 - 81
90	80	10	A	**748 400 313**	0.035	142	84			3	74 - 94
110	100	10	B	**748 400 314**	0.051	162	104	180	18	4	94 - 114
125	100	10	B	**748 400 315**	0.044	162	119	180	18	4	109 - 129
140	125	10	B	**748 400 316**	0.068	192	134	210	18	4	124 - 144
160 - 180	150	10	B	**748 400 317**	0.090	218	155	241	22	4	145 - 165
200	200	6	C	**748 400 319**	0.180	273	195	295	22	5	185 - 205
225	200	6	C	**748 400 320**	0.140	273	216	295	22	5	206 - 226
250	250	6	C	**748 400 321**	0.210	328	250	350	22	5	240 - 260
280	250	6	C	**748 400 322**	0.151	328	273	350	22	5	263 - 283
315	300	6	C	**748 400 323**	0.237	378	305	400	22	5	295 - 315



Flat gasket for flange adaptor

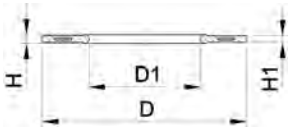
Model:

- Hardness: EPDM ca. 70° shore
- Flange bolt circle: PN10
- Integrated fixation aids
- Centering on the inner diameter of the screw crown



PN* (bar)	d (mm)	DN (mm)	EPDM Code	Weight (kg)	D2 (mm)	D3 (mm)	D1 (mm)	H (mm)	D (mm)
6	710	700	**748 400 330**	0.900	840	30	625	5	810
6	800	800	**748 400 331**	1.000	950	33	705	5	917
6	900	900	**748 400 332**	1.200	1050	36	805	5	1014
6	1000	1000	**748 400 333**	1.400	1160	39	890	5	1121





Profile Flange Gasket, metric
EPDM / FKM

Model:

- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring

di FA are the suitable inner diameters of flanges adaptors

d (mm)	PN (bar)	DN (mm)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
16	16	10	**748 440 705**	**749 440 705**	0.012	46	16	6 - 16	4	3
20	16	15	**748 440 706**	**749 440 706**	0.013	51	20	10 - 20	4	3
25	16	20	**748 440 707**	**749 440 707**	0.014	61	22	12 - 22	4	3
32	16	25	**748 440 708**	**749 440 708**	0.019	71	28	18 - 28	4	3
40	16	32	**748 440 709**	**749 440 709**	0.026	82	40	30 - 40	4	3
50	16	40	**748 440 710**	**749 440 710**	0.039	92	46	36 - 46	4	3
63	16	50	**748 440 711**	**749 440 711**	0.050	107	58	48 - 58	5	4
75	16	65	**748 440 712**	**749 440 712**	0.082	127	69	59 - 69	5	4
90	16	80	**748 440 713**	**749 440 713**	0.083	142	84	73 - 84	5	4
110	16	100	**748 440 714**	**749 440 714**	0.127	162	104	94 - 104	6	5
125	16	100	**748 440 715**	**749 440 715**	0.105	162	123	113 - 123	6	5
140	16	125	**748 440 716**	**749 440 716**	0.173	192	137	127 - 137	6	5
160 - 180	16	150	**748 440 717**	**749 440 717**	0.207	218	160	150 - 160	8	6
200	16	200	**748 440 719**	**749 440 719**	0.263	273	203	192 - 203	8	6
225	16	200	**748 440 720**	**749 440 720**	0.255	273	220	207 - 220	8	6
250	16	250	**748 440 721**	**749 440 721**	0.462	328	252	238 - 252	8	6
280	16	250	**748 440 722**	**749 440 722**	0.323	328	274	264 - 274	8	6
315	16	300	**748 440 723**	**749 440 723**	0.549	378	306	296 - 306	8	6
355	16	350	**748 440 724**	**749 440 724**	0.870	438	355	340 - 355	10	7
400	16	400	**748 440 725**	**749 440 725**	1.088	489	400	385 - 400	10	7
450	16	500	**748 440 726**	**749 440 726**	0.718	594	403	393 - 403	10	7
500	16	500	**748 440 727**	**749 440 727**	0.718	594	447	437 - 447	10	7
560	16	600	**748 440 728**	**749 440 728**	0.923	695	494	484 - 494	10	7
630	16	600	**748 440 729**	**749 440 729**	0.923	695	555	545 - 555	10	7

COOL-FIT 2.0



Technical data

Materials
Media pipe: PE100
Insulation: GF HE foam, halogen-free, closed-pore
Outer jacket: Pipe = HDPE, Fitting = GF-HE

Dimensions range
d32/D25 to d140/D125
d = pressure pipe; D = outer jacket

Jointing technology
Electro fusion

Operating pressure
PN16 (SDR11)

Operating temperature
0°C to 60°C

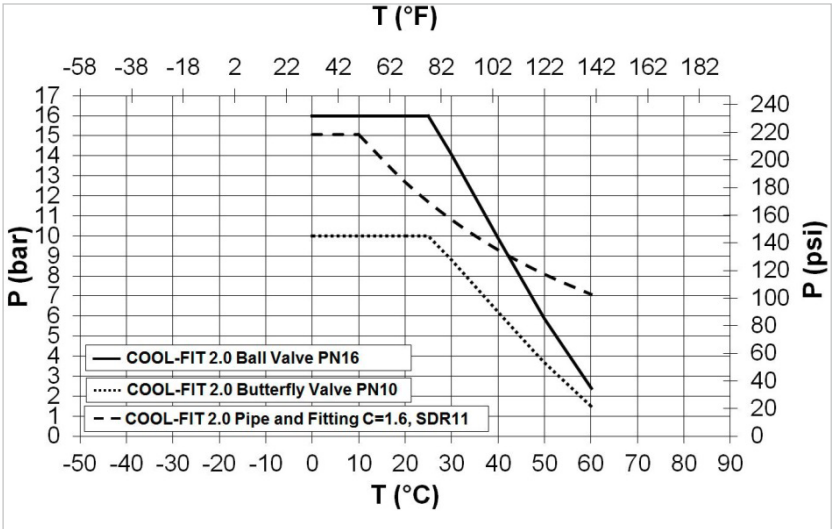
Your benefits

+ **50 % faster installation**
+ **30 % more energy efficient**
+ **100 % corrosion free**

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Pressure/temperature limits for COOL-FIT 2.0 fittings, pipe, valves – water coolant

Limits for COOL-FIT 2.0: 25-year values allowing for the safety factor (with water as the coolant).



P Allowable pressure (bar, psi)
T Temperature (°C, °F)
C Safety factor

The butterfly valves used for the COOL-FIT 2.0 system exhibit lower pressure-temperature ratings than the rest of the components. If valves are used, it is necessary to refer to the data in the diagram above.

Influence of secondary refrigerants with antifreeze additives

At ambient temperatures below 0 °C, antifreeze must be used in the water to prevent it from freezing during a plant shut-down.

COOL-FIT 2.0 is generally resistant to secondary coolants such as glycol and brines. For some secondary coolants a reduction factor is necessary depending on the type and mixing ratio. The permissible operating pressure is corrected downwards from the pressure-temperature curve for water.

Reduction factors[1]

Inorganic salt solutions	F = 1
Organic salt solutions	F = 1
Glycol solutions (max. 50 %)	F = 1.1

[1] valid for materials HD-PE, EPDM, PVC-U, metals

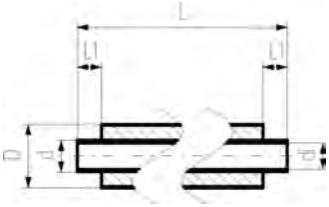
For the calculation, the following formula is used:

$$P_{AF} = \frac{P_w}{AF}$$

P_{AF} Permissible pressure with reduction factor
P_W Permissible pressure for water
AF Reduction factor

COOL-FIT 2.0 Pipes





COOL-FIT 2.0 Pipe

Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- With free ends for electrofusion

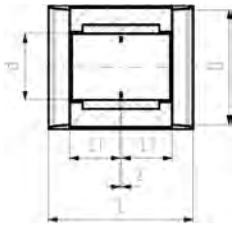
Note:

bigger dimensions available via COOL-FIT 4.0 product range

d/D (mm)	DN (mm)	PN (bar)	Code	Weight (kg/m)	di (mm)	L (mm)	L1 (mm)	closest inch (inch)
32/75	25	16	**738 174 108**	1.140	26.2	5000	36	1
40/90	32	16	**738 174 109**	1.534	32.6	5000	40	1 ¼
50/90	40	16	**738 174 110**	1.722	40.8	5000	44	1 ½
63/110	50	16	**738 174 111**	2.711	51.4	5000	48	2
75/125	65	16	**738 174 112**	3.405	61.4	5000	55	2 ½
90/140	80	16	**738 174 113**	4.320	73.5	5000	62	3
110/160	100	16	**738 174 114**	5.692	90.0	5000	72	4
140/200	125	16	**738 174 116**	9.021	114.6	5000	84	5

COOL-FIT 2.0 Fittings





COOL-FIT 2.0 Coupler

Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- Integrated sealing lip, for a moisture-proof and vapour tight sealing

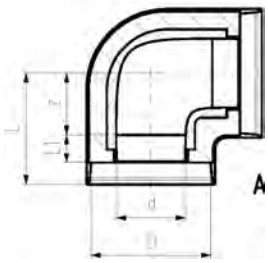
Note:

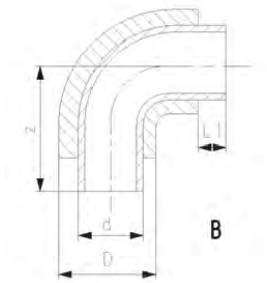
bigger dimensions available via COOL-FIT 4.0 product range

d/D (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	closest inch (inch)
32/75	16	**738 914 108**	0.092	113	36	5	1
40/90	16	**738 914 109**	0.126	121	40	3	1 ¼
50/90	16	**738 914 110**	0.160	129	44	3	1 ½
63/110	16	**738 914 111**	0.237	137	48	3	2
75/125	16	**738 914 112**	0.339	152	55	3	2 ½
90/140	16	**738 914 113**	0.476	166	62	4	3
110/160	16	**738 914 114**	0.778	188	72	4	4
140/200	16	**738 914 116**	1.097	210	84	3	5









COOL-FIT 2.0 Elbow 90°

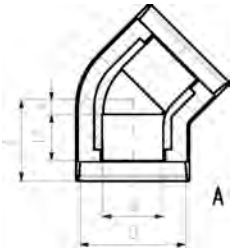
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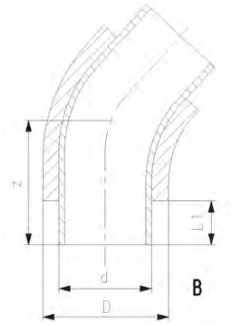
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

d/D (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	closest inch (inch)	Type
32/75	16	**738 104 108**	0.127	75	36	20	1	A
40/90	16	**738 104 109**	0.185	82	40	23	1 ¼	A
50/90	16	**738 104 110**	0.242	93	44	30	1 ½	A
63/110	16	**738 104 111**	0.384	101	48	34	2	A
75/125	16	**738 104 112**	0.510	114	55	40	2 ½	A
90/140	16	**738 104 113**	0.960	144	62	63	3	A
110/160	16	**738 104 114**	1.406	168	72	77	4	A
140/200	16	**738 104 116**	2.690		84	221	5	B









COOL-FIT 2.0 Elbow 45°

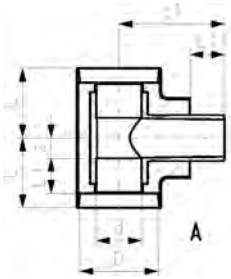
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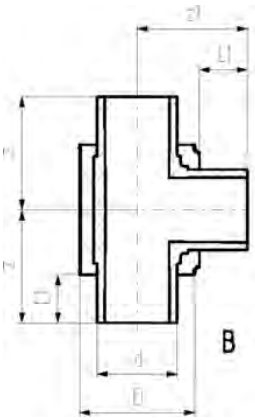
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

d/D (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	closest inch (inch)	Type
32/75	16	**738 154 108**	0.101	66	36	11	1	A
40/90	16	**738 154 109**	0.143	70	40	11	1 ¼	A
50/90	16	**738 154 110**	0.206	76	44	13	1 ½	A
63/110	16	**738 154 111**	0.307	83	48	16	2	A
75/125	16	**738 154 112**	0.407	92	55	18	2 ½	A
90/140	16	**738 154 113**	0.686	111	62	30	3	A
110/160	16	**738 154 114**	1.123	132	72	41	4	A
140/200	16	**738 154 116**	1.967		84	164	5	B









COOL-FIT 2.0 Tee 90° equal

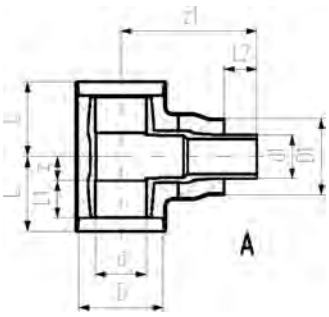
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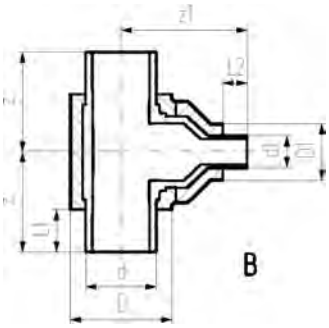
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

d/D (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	closest inch (inch)	Type
32/75	16	**738 204 108**	0.154	73	36	18	98	1	A
40/90	16	**738 204 109**	0.230	81	40	22	112	1 ¼	A
50/90	16	**738 204 110**	0.306	88	44	25	125	1 ½	A
63/110	16	**738 204 111**	0.492	97	48	30	147	2	A
75/125	16	**738 204 112**	0.673	110	55	36	140	2 ½	A
90/140	16	**738 204 113**	1.022	124	62	43	161	3	A
110/160	16	**738 204 114**	1.751	148	72	57	184	4	A
140/200	16	**738 204 116**	3.317		84	198	193	5	B









COOL-FIT 2.0 Tee 90° reduced

Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing. Branch with free pipe end.
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

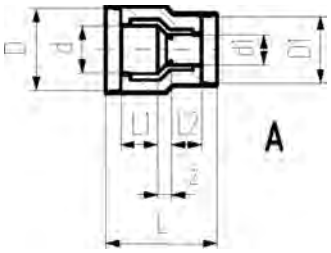
d/D (mm)	d1/D1 (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	z1 (mm)	Closest inch (inch)	Type
75/125	63/110	16	**738 204 218**	0.746	110	55	48	36	200	2 ½ - 2	A
90/140	63/110	16	**738 204 222**	1.096	124	62	48	42	227	3 - 2	A
90/140	75/125	16	**738 204 223**	1.133	124	62	55	42	227	3 - 2 ½	A
110/160	63/110	16	**738 204 227**	1.746	148	72	48	57	245	4 - 2	A
110/160	75/125	16	**738 204 228**	1.782	148	72	55	57	245	4 - 2 ½	A
110/160	90/140	16	**738 204 229**	1.848	148	72	62	57	245	4 - 3	A
140/200	63/110	16	**738 204 340**	3.441		84	48	198	250	5 - 2	B
140/200	75/125	16	**738 204 341**	3.504		84	55	198	262	5 - 2 ½	B
140/200	90/140	16	**738 204 342**	3.569		84	62	198	263	5 - 3	B
140/200	110/160	16	**738 204 343**	3.620		84	72	198	258	5 - 4	B

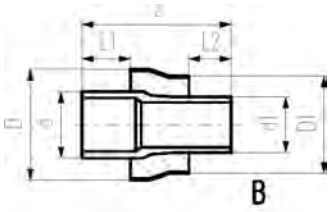


A



B





COOL-FIT 2.0 Reducer

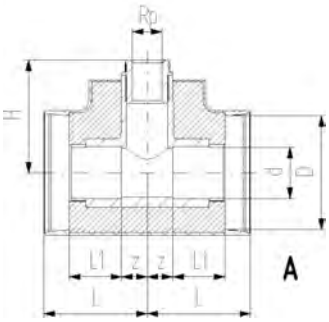
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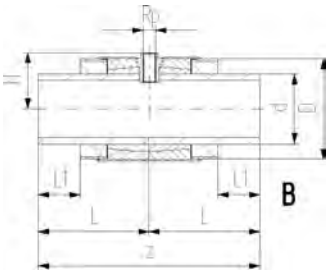
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

d/D (mm)	d1/D1 (mm)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	Closest inch (inch)	Type
40/90	32/75	16	**738 904 206**	0.125	131	40	36	17	1 ¼ - 1	A
50/90	32/75	16	**738 904 209**	0.154	139	44	36	21	1 ½ - 1	A
50/90	40/90	16	**738 904 210**	0.153	137	44	40	15	1 ½ - 1 ¼	A
63/110	32/75	16	**738 904 212**	0.198	148	48	36	26	2 - 1	A
63/110	40/90	16	**738 904 213**	0.221	147	48	40	21	2 - 1 ¼	A
63/110	50/90	16	**738 904 214**	0.219	147	48	44	17	2 - 1 ½	A
90/140	63/110	16	**738 904 222**	0.464	187	62	48	39	3 - 2	A
110/160	90/140	16	**738 904 229**	0.799	214	72	62	42	4 - 3	A
75/125	63/110	16	**738 904 318**	0.244		55	48	170	2 ½ - 2	B
90/140	63/110	16	**738 904 322**	0.360		62	48	190	3 - 2	B
90/140	75/125	16	**738 904 323**	0.395		62	55	190	3 - 2 ½	B
110/160	63/110	16	**738 904 327**	0.523		72	48	205	4 - 2	B
110/160	75/125	16	**738 904 328**	0.553		72	55	205	4 - 2 ½	B
110/160	90/140	16	**738 904 329**	0.599		84	62	205	4 - 3	B
140/200	63/110	16	**738 904 340**	0.917		84	48	225	5 - 2	B
140/200	75/125	16	**738 904 341**	0.997		84	55	237	5 - 2 ½	B
140/200	90/140	16	**738 904 342**	1.039		84	62	238	5 - 3	B
140/200	110/160	16	**738 904 343**	1.051		84	72	233	5 - 4	B









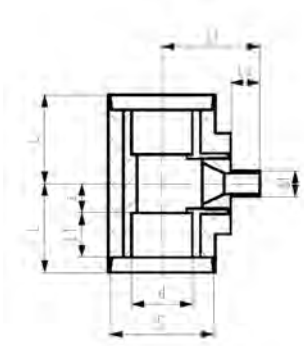
COOL-FIT 2.0 Installation fitting type 313

Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- With threaded branch for sensors (i.e temperature, pressure)
- A: Electrofusion Fitting with integrated sealing lip, for a moisture-proof and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

d/D (mm)	Rp (inch)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	H (mm)	Closest inch (inch)	Type
32/75	½	16	**738 313 408**	0.138	73	36	16	75	1	A
40/90	½	16	**738 313 409**	0.216	81	40	21	85	1 ¼	A
40/90	¾	16	**738 313 459**	0.216	81	40	21	88	1 ¼	A
50/90	½	16	**738 313 410**	0.308	88	44	24	94	1 ½	A
50/90	¾	16	**738 313 460**	0.307	88	44	24	97	1 ½	A
63/110	½	16	**738 313 411**	0.493	97	48	29	113	2	A
63/110	¾	16	**738 313 461**	0.492	97	48	29	116	2	A
75/125	½	16	**738 313 412**	0.678	110	55	35	99	2 ½	A
75/125	¾	16	**738 313 462**	0.677	110	55	35	102	2 ½	A
90/140	½	16	**738 313 413**	1.025	123	62	42	113	3	A
90/140	¾	16	**738 313 463**	1.023	123	62	42	116	3	A
110/160	½	16	**738 313 414**	1.765	148	72	56	128	4	A
110/160	¾	16	**738 313 464**	1.763	148	72	56	131	4	A
140/200	½	16	**738 313 416**	3.406	224	84	447	110	5	B
140/200	¾	16	**738 313 466**	3.401	224	84	447	113	5	B





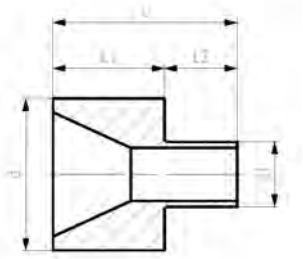
COOL-FIT 2.0 Tee 90° reduced, short

Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- Space-optimized branch: sealing lip of Fitting Typ A that joins to the branch, needs to be cut and adhesive ring be use

d/D (mm)	d1 (mm)	PN (bar)	Code	L (mm)	L1 (mm)	L2 (mm)	z (mm)	z1 (mm)	Closest inch (inch)	Type
40/90	32	16	**738 204 506**	81	40	36	22	108	1 ¼ - 1	A
50/90	32	16	**738 204 509**	88	44	36	25	117	1 ½ - 1	A
63/110	32	16	**738 204 512**	97	48	36	30	135	2 - 1	A
75/125	32	16	**738 204 515**	110	55	36	36	121	2 ½ - 1	A
90/140	32	16	**738 204 519**	124	62	36	43	135	3 - 1	A
110/160	32	16	**738 204 524**	148	72	36	57	148	4 - 1	A





COOL-FIT 2.0 Reducer, short

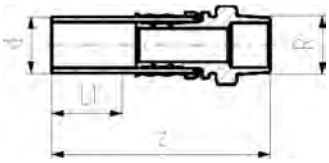
Model:

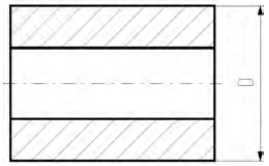
- Spigot fitting PE100 SDR11, metric with free end
- Space-optimized branch: sealing lip of Fitting Typ A that joins to the branch, needs to be cut and adhesive ring be use

d (mm)	d1 (mm)	PN (bar)	Code	L (mm)	L1 (mm)	L2 (mm)
40	32	16	**738 900 506**	76	40	36
50	32	16	**738 900 509**	80	44	36
50	40	16	**738 900 510**	84	44	40
63	32	16	**738 900 512**	84	48	36
63	40	16	**738 900 513**	88	48	40
63	50	16	**738 900 514**	92	48	44
75	32	16	**738 900 515**	91	55	36
90	32	16	**738 900 519**	98	62	36
110	32	16	**738 900 524**	108	72	36

COOL-FIT 2.0 Transition Fittings







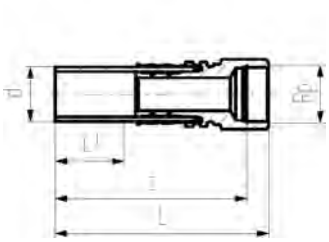
COOL-FIT 2.0 Adaptor fitting PE/stainless steel with male thread R

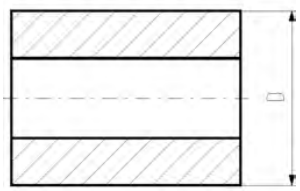
Model:

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM
- Including Insulation made from NBR foam

d (mm)	R (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L1 (mm)	z (mm)
32	½	16	**738 944 508**	0.194	70	36	130
32	¾	16	**738 944 518**	0.202	70	36	134
32	1	16	**738 944 528**	0.211	70	36	134
40	1 ¼	16	**738 944 509**	0.595	78	40	156
50	1 ½	16	**738 944 510**	0.954	88	44	168
63	2	16	**738 944 511**	1.381	101	48	179







COOL-FIT 2.0 Adaptor fitting PE/stainless steel with female thread Rp

Model:

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with femal thread Rp
- Gasket: O-ring EPDM
- Including Insulation made from NBR foam

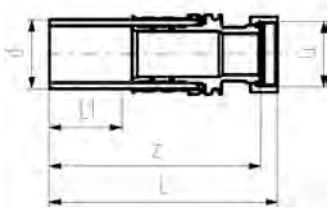
d (mm)	Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	z (mm)
32	½	16	**738 944 008**	0.201	70	132	36	118
32	¾	16	**738 944 018**	0.226	70	132	36	116
32	1	16	**738 944 028**	0.251	70	132	36	115
40	1 ¼	16	**738 944 009**	0.626	78	157	40	141
50	1 ½	16	**738 944 010**	0.670	88	150	44	128
63	2	16	**738 944 011**	1.170	101	164	48	140

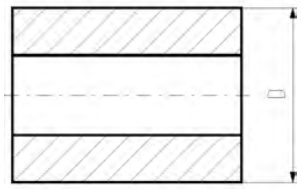


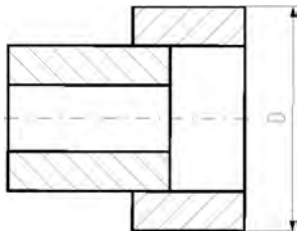
COOL-FIT 2.0 Adaptor fitting PE/stainless steel with loose union nut G

Model:

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with female thread G
- Including flat seal EPDM
- Including Insulation made from NBR foam







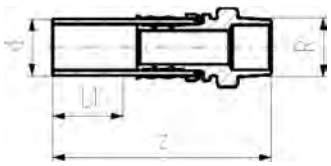
d (mm)	G (inch)	PN	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	z (mm)
32	½	16	**738 944 308**	0.204	70	135	36	126
32	¾	16	**738 944 318**	0.219	70	135	36	129
32	1	16	**738 944 328**	0.317	70	135	36	129
32	1 ¼	16	**738 944 338**	0.317	108	137	36	131
40	1 ¼	16	**738 944 309**	0.538	78	155	40	148
40	1 ½	16	**738 944 319**	0.615	116	157	40	148
40	2	16	**738 944 329**	0.815	116	166	40	150
50	1 ½	16	**738 944 310**	0.758	88	164	44	154
50	1 ¾	16	**738 944 320**	0.827	88	164	44	155
50	2	16	**738 944 330**	1.048	126	178	44	162
50	2 ¼	16	**738 944 340**	0.866	126	148	44	134
63	2	16	**738 944 311**	1.237	101	186	48	170
63	2 ⅜	16	**738 944 321**	1.344	139	178	48	168
63	2 ¾	16	**738 944 331**	1.230	139	157	48	141

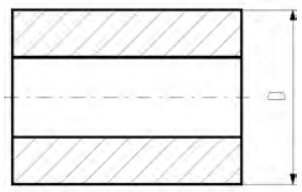


COOL-FIT 2.0 Adaptor fitting PE/Brass with male thread R

Model:

- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with male thread R
- Gasket: O-ring EPDM
- Including Insulation made from NBR foam





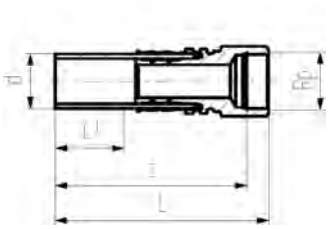
d (mm)	R (inch)	PN	Code	Weight (kg)	D (mm)	L1 (mm)	z (mm)
32	½	16	**738 954 508**	0.203	70	36	130
32	¾	16	**738 954 518**	0.211	70	36	134
32	1	16	**738 954 528**	0.221	70	36	134
40	1 ¼	16	**738 954 509**	0.631	78	40	156
50	1 ½	16	**738 954 510**	1.013	88	44	168
63	2	16	**738 954 511**	1.467	101	48	179

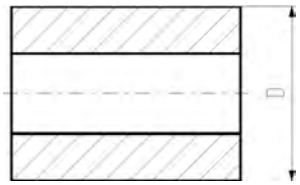


COOL-FIT 2.0 Adaptor fitting PE/Brass with female thread Rp

Model:

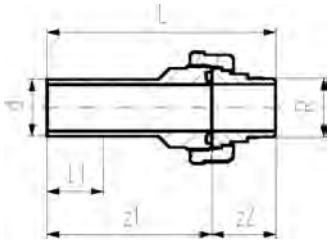
- Spigot fitting PE100 SDR11, metric with free end
- Brass CuZn40Pb2 with female tread Rp
- Gasket: O-ring EPDM
- Including Insulation made from NBR foam

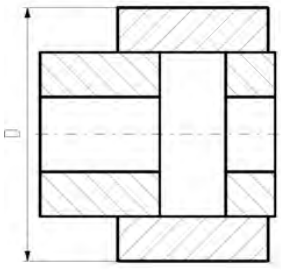




d (mm)	Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	z (mm)
32	½	16	**738 954 008**	0.210	70	132	36	118
32	¾	16	**738 954 018**	0.237	70	132	36	116
32	1	16	**738 954 028**	0.264	70	132	36	115
40	1 ¼	16	**738 954 009**	0.667	78	157	40	141
50	1 ½	16	**738 954 010**	0.713	88	150	44	128
63	2	16	**738 954 011**	1.246	101	164	48	140







COOL-FIT 2.0 Adaptor Union PE/Stainless steel with male thread R

Model:

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM No. 748 410 008-011
- Union Nut: PEGF25
- Including Insulation made from NBR foam

d (mm)	R (inch)	PN	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	z1 (mm)	z2 (mm)
32	1	16	**738 544 708**	0.310	108	147	36	107	40
40	1 ¼	16	**738 544 709**	0.538	116	163	40	117	46
50	1 ½	16	**738 544 710**	0.660	126	172	44	124	48
63	2	16	**738 544 711**	1.073	139	191	48	136	55

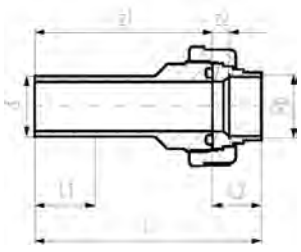


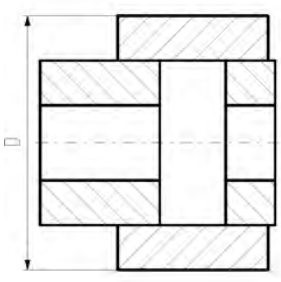
COOL-FIT 2.0 Adaptor Union PE/Stainless steel with female thread Rp

Model:

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Stainless steel 1.4404 / 316L with female thread Rp
- Gasket: O-ring EPDM No. 748 410 008-011
- Union Nut: PEGF25
- Including Insulation made from NBR foam

d (mm)	Rp (inch)	PN	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)
32	1	16	**738 544 208**	0.270	108	136	36	29	107	10
40	1 ¼	16	**738 544 209**	0.433	116	150	40	33	118	11
50	1 ½	16	**738 544 210**	0.587	126	158	44	34	124	13
63	2	16	**738 544 211**	0.883	139	175	48	39	136	14





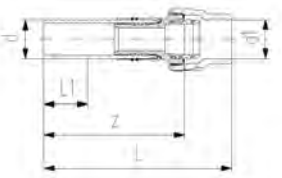
COOL-FIT 2.0 Adaptor fitting PE/Sanipex MT

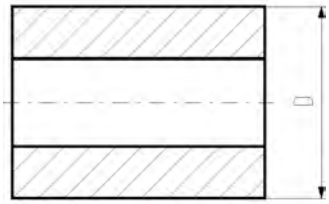


Model:

- Spigot fitting PE100 SDR11, metric with free end
- Sanipex MT adaptor brass CuZn40Pb2
- Including Insulation made from NBR foam

d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
32	32	10	**738 954 118**	0.441	86	174	36	101	135





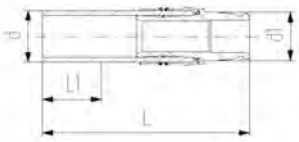
COOL-FIT 2.0 Adaptor fitting PE/iFIT

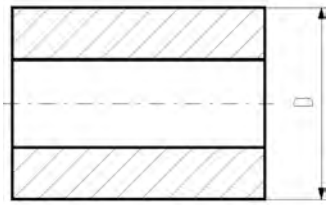


Model:

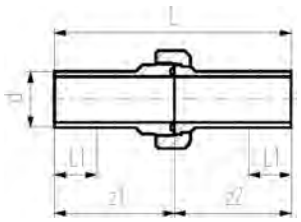
- Spigot fitting PE100 SDR11, metric with free end
- iFIT module stainless steel 1.4404 / 316L
- Including insulation half shells

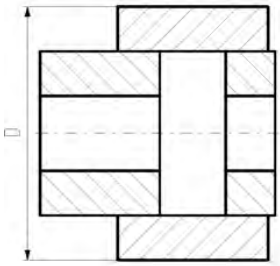
d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
32	25-32	10	**738 944 108**	0.229	70	132	36	80











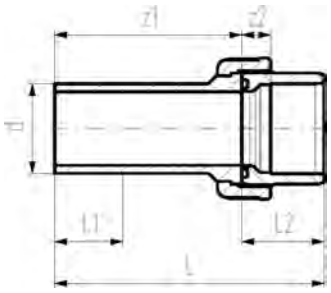
COOL-FIT 2.0 Union PE/PE

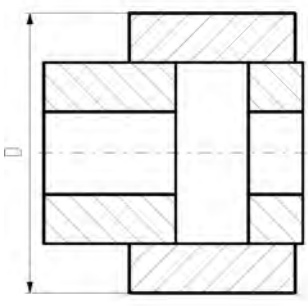
Model:

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Spigot fitting PE100 SDR11, metric with free end
- Gasket: O-ring EPDM No. 748 410 008-014
- Union Nut: PEGF25
- Including Insulation made from NBR foam

d (mm)	PN	Code	D (mm)	L (mm)	L1 (mm)	z1 (mm)	z2 (mm)
32	16	**738 514 608**	108	211	36	107	104
40	16	**738 514 609**	116	234	40	118	117
50	16	**738 514 610**	126	247	44	124	123
63	16	**738 514 611**	139	268	48	136	132
75	10	**738 514 612**	151	303	55	154	149
90	10	**738 514 613**	166	293	62	149	144
110	10	**738 514 614**	186	321	72	162	159







COOL-FIT 2.0 Adaptor Union PE/ABS

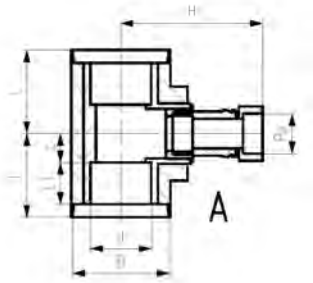
Model:

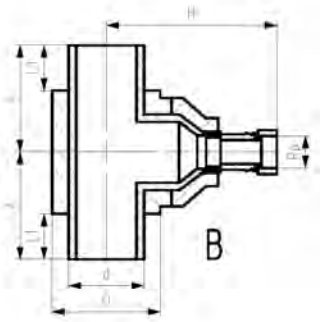
- Union bush: ABS Solvent cement socket
- Union End: Spigot fitting PE100 SDR11, metric with free end
- Gasket: O-ring EPDM No. 748 410 008-014
- Union Nut: ABS
- Including Insulation made from NBR foam

d (mm)	PN	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)
32	10	**738 514 708**	0.117	108	137	36	33	104	11
40	10	**738 514 709**	0.196	116	156	40	39	117	13
50	10	**738 514 710**	0.268	126	169	44	46	123	15
63	10	**738 514 711**	0.427	139	190	48	58	132	21
75	10	**738 514 712**	0.730	151	211	55	62	149	18
90	10	**738 514 713**	0.974	166	215	62	69	146	19
110	10	**738 514 714**	1.478	186	235	72	72	163	11









COOL-FIT 2.0 Transition Tee90°, PE/Brass with female thread Rp

Model:

- Pre-insulated, PE100, SDR11, metric
- Brass CuZn40Pb2 with female thread Rp
- Insulation made from GF HE foam
- Impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

d (mm)	Rp (inch)	PN (bar)	Code	L (mm)	L1 (mm)	z (mm)	H (mm)	closest inch (inch)	Type
63/110	2	16	**738 954 061**	97	48	29	212	2	A
75/125	2	16	**738 954 062**	110	55	36	193	2 ½	A
90/140	2	16	**738 954 063**	124	62	43	210	3	A
110/160	2	16	**738 954 064**	148	72	57	223	4	A
140/200	2	16	**738 954 066**		84	447	316	5	B



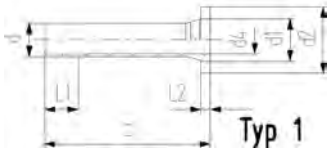
COOL-FIT 2.0/4.0 Flange adaptor

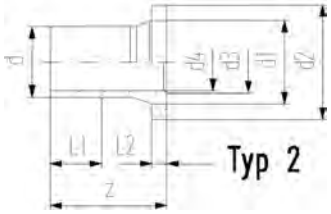
Model:

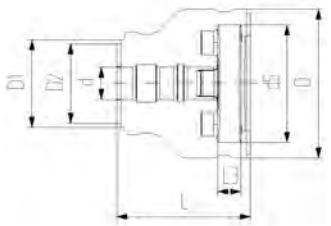
- PE100 SDR11, metric
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Type 1 without chamfer, Type 2 with chamfer
- Separate Fittings type A needed for joining

Note:

Backing ring and gasket not included





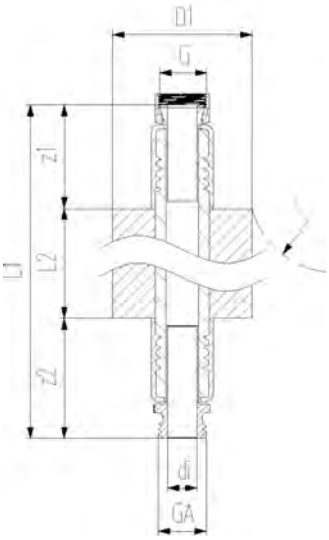


d (mm)	DN (mm)	PN	Code	Weight (kg)
32	25	16	**738 710 008**	0.051
40	32	16	**738 710 009**	0.075
50	40	16	**738 710 010**	0.900
63	50	16	**738 710 011**	0.173
75	65	16	**738 710 012**	1.210
90	80	16	**738 710 013**	1.193
110	100	16	**738 710 014**	1.574
140	125	16	**738 710 016**	2.412
160	150	16	**738 710 017**	1.748
225	200	16	**738 710 020**	10.440

d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	z (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	d5 (mm)	Type
32	25	135	90	75	162	36	10	26	190	40	68		26	121	1
40	32	170	110	90	165	40	11	28	197	50	78		32	146	1
50	40	180	110	90	178	44	12	30	214	61	88		40	156	1
63	50	200	125	110	230	48	14	32	270	75	102		51	171	1
75	65	220	140	125	232	55	16	34	279	89	122		61	191	2
90	80	240	160	140	245	62	17	35	299	105	138	78	73	206	2
110	100	270	180	160	254	72	18	36	320	125	158	100	90	235	2
140	125	300	225	200	299	84	25	38	383	155	188	127	127	256	2
160	150	358	259		332	90	25	34	412	174	213	151	131	295	2
225	200	423	325		383	110	32	37	483	233	268	209	184	354	2

COOL-FIT 2.0 Flexible Hoses







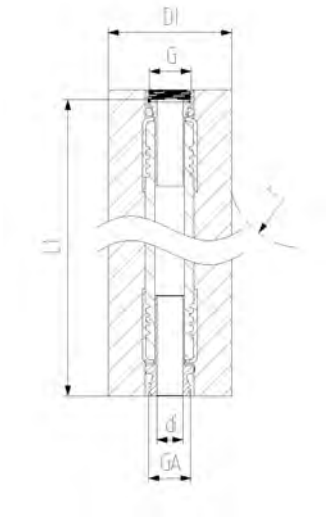
COOL-FIT 2.0 Flexible hose, EPDM with stainless steel adaptors and male/female threads G

Model:

- EPDM flexible hose
- Stainless steel adaptors
- Pre-Insulation made from NBR foam with outer jacket impact resistant and tearproof
- With loose union nut G on one end and male thread GA on the other

DN (mm)	G/GA (inch)	PN (bar)	Code	di (mm)	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	r (mm)	closest inch (inch)
20	3/4"	16	**738 924 307**	19	75	70	1000	877	57	67	65	¾
25	1"	16	**738 924 308**	25	82	76	1000	876	56	68	90	1
32	1 1/4"	16	**738 924 309**	32	87	83	1000	874	57	69	120	1 ¼
40	1 1/2"	16	**738 924 310**	48	90	89	1500	1369	57	74	155	1 ½





COOL-FIT 2.0 Flexible hose

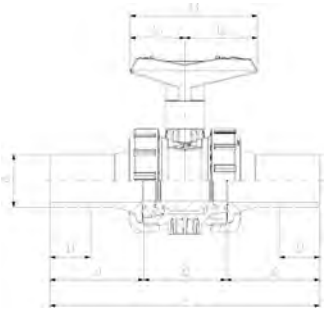
Model:

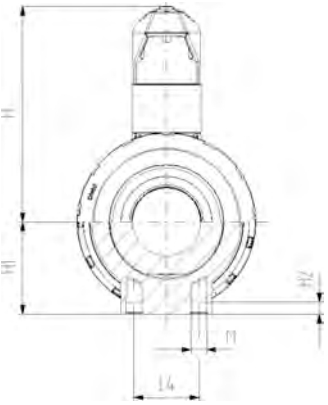
- EPDM flexible hose with stainless steel protection
- Brass adaptors
- Pre-Insulation made from NBR foam with outer jacket impact resistant and tearproof
- With loose union nut G on one end and male thread GA on the other

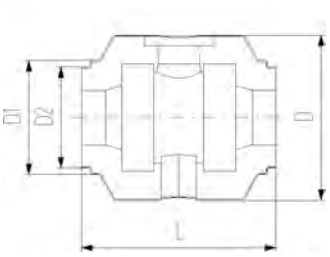
d (mm)	DN (mm)	G/GA (inch)	PN (bar)	Code	L1 (mm)	di (mm)	D1 (mm)	r (mm)
20	15	1/2"	10	**738 924 206**	1000	15	39	119
25	20	3/4"	10	**738 924 207**	1000	19	44	156
32	25	1"	10	**738 924 208**	1000	25	51	192
40	32	1 1/4"	8	**738 924 209**	1500	32	59	252
50	40	1 1/2"	6	**738 924 210**	2000	38	69	312
63	50	2"	6	**738 924 211**	2000	52	82	372

COOL-FIT 2.0 Valves









COOL-FIT 2.0 Ball valve type 546 hand-operated

Model:

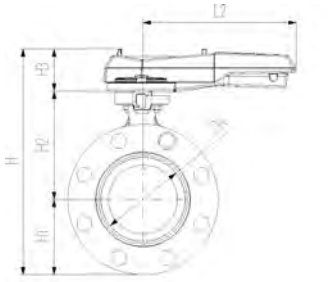
- Material: PVC-U with spigot PE100 SDR11, metric
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Including insulation half shells

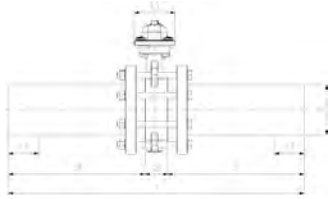
d (mm)	DN (mm)	PN	kv-value (Δp=1 bar) (l/min)	Code	Weight (kg)
32	25	16	700	**138 546 308**	0.560
40	32	16	1000	**138 546 309**	0.900
50	40	16	1600	**138 546 310**	1.190
63	50	16	3100	**138 546 311**	2.100
75	65	16	5000	**138 546 312**	5.550
90	80	16	7000	**138 546 313**	8.150

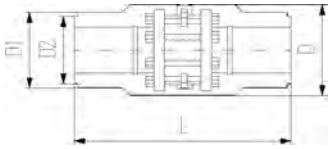
d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	H (mm)	H1 (mm)	H2 (mm)	z (mm)	z1 (mm)	z2 (mm)	M
32	25	135	97	82	152	36	97	25	98	36	12	223	76	71	M6
40	32	157	117	97	170	40	128	45	119	44	15	249	82	85	M8
50	40	169	117	97	184	44	128	45	125	51	15	271	91	89	M8
63	50	204	132	117	227	48	152	45	150	64	15	321	110	101	M8
75	65	235	147	132	276	55	270	70	194	85	15	386	125	136	M8
90	80	255	168	147	297	62	270	70	200	105	15	421	140	141	M8

d (mm)	DN (mm)	Closest inch (inch)
32	25	1
40	32	1 ¼
50	40	1 ½
63	50	2
75	65	2 ½
90	80	3









COOL-FIT 2.0 Butterfly valve kit type 567 hand-operated

Model:

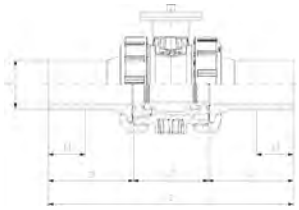
- Material: PVC-U with spigot PE100 SDR11, metric
- Including flange adaptors, backing flanges PP-Steel, bolts and insulation half shells

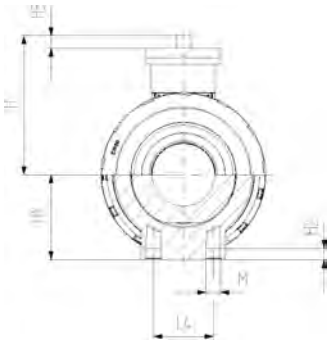
d (mm)	DN (mm)	PN	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
110	100	10	6500	**138 567 314**	3.500
140	125	10	11500	**138 567 316**	4.500

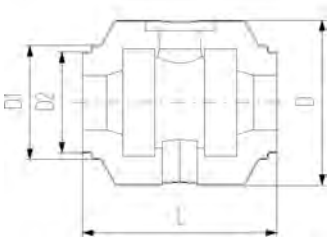
d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	z (mm)	z1 (mm)	z2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)
110	100	260	188	168	552	72	255	106	696	320	56	325	104	167	55
140	125	287	233	208	662	84	255	106	830	383	64	352	117	181	55

d (mm)	DN (mm)	closest inch (inch)
110	100	4
140	125	5









COOL-FIT 2.0 Ball valve type 546 PVC-U bare shaft

Model:

- Material: PVC-U with spigot PE100 SDR11, metric
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Interface according to DIN EN ISO 5211
- Including insulation half shells

d (mm)	DN (mm)	PN	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
32	25	16	700	**138 546 408**	0.560
40	32	16	1000	**138 546 409**	0.900
50	40	16	1600	**138 546 410**	1.190
63	50	16	3100	**138 546 411**	0.100
75	65	16	5000	**138 546 412**	5.550
90	80	16	7000	**138 546 413**	8.150

d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	z (mm)	z1 (mm)	z2 (mm)	M
32	25	135	97	82	152	36	72	36	12	11	223	76	71	M6
40	32	157	117	97	170	40	84	44	15	11	249	82	85	M8
50	40	169	117	97	184	44	90	51	15	11	271	91	89	M8
63	50	204	132	117	227	48	105	64	15	10	321	110	101	M8
75	65	235	147	132	276	55	177	85	15	21	386	125	136	M8
90	80	235	168	147	297	62	189	105	15	21	421	140	141	M8

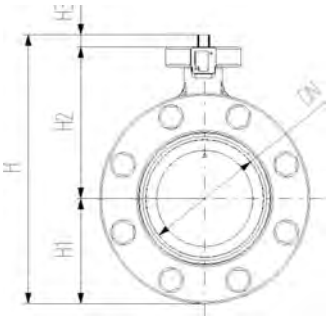
d (mm)	DN (mm)	Closest inch (inch)	Hole pattern
32	25	1	F05/F03
40	32	1 ¼	F05/F03
50	40	1 ½	F05/F03
63	50	2	F05/F03
75	65	2 ½	F07
90	80	3	F07

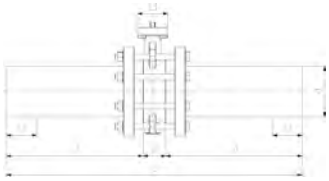


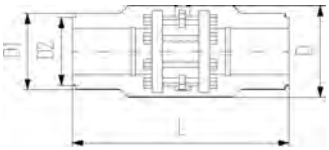
COOL-FIT 2.0 Butterfly valve kit type 567 bare shaft

Model:

- Material: PVC-U with spigot PE100 SDR11, metric
- Interface F07 according to DIN/ISO 5211
- Including flange adaptors, backing flanges PP-Steel, bolts and insulation half shells







d (mm)	DN (mm)	PN	kv-value (Δp=1 bar) (l/min)	EPDM Code
110	100	10	6500	**138 567 414**
140	125	10	11500	**138 567 416**

d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L3 (mm)	z (mm)	z1 (mm)	z2 (mm)	H1 (mm)	H2 (mm)	H3 (mm)	closest inch (inch)
110	100	260	188	168	552	72	106	696	320	56	104	167	55	4
140	125	287	233	208	662	84	106	830	383	64	117	181	55	5



COOL-FIT 2.0 Insulation for Ball valve type 546

Model:

- Set consisting of half shells and clamps

d (mm)	Code	Weight (kg)
32	**738 990 308**	0.160
40	**738 990 309**	0.228
50	**738 990 310**	0.282
63	**738 990 311**	0.498
75	**738 990 312**	0.935
90	**738 990 313**	1.033



COOL-FIT 2.0 Insulation for Butterfly valve type 567

Model:

- Set consisting of half shells and clamps

d (mm)	Code	Weight (kg)
110	**738 990 324**	2.054
140	**738 990 326**	2.947

COOL-FIT 2.0 Accessories



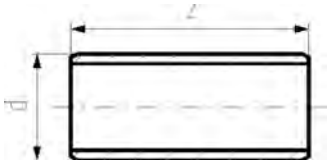
COOL-FIT 2.0/4.0 Powered foam removal and peeling tool

Model:

- Tool for foam removal and peeling of COOL-FIT 2.0 and 4.0 pipes
- For usage in combination with drill drivers (not included)

d (mm)	Code	Weight (kg)
32-63	**799 738 201**	10.500





COOL-FIT 2.0/4.0 Barrel nipple

Model:

- PE100, SDR11, metric
- For the shortest possible connection between fittings

d (mm)	PN	Code	Weight (kg)	z (mm)	closest inch (inch)
32	10	**738 910 408**	0.020	72	1
40	10	**738 910 409**	0.034	80	1 ¼
50	10	**738 910 410**	0.059	88	1 ½
63	10	**738 910 411**	0.101	96	2
75	10	**738 910 412**	0.162	110	2 ½
90	10	**738 910 413**	0.264	124	3
110	10	**738 910 414**	0.454	144	4
140	10	**738 910 416**	0.855	168	5



COOL-FIT 2.0 adhesive ring

Model:

- Double sided, for sealing connections of fittings with barrel nipple

d (mm)	D (mm)	Code	Weight (kg)
32	75	**738 010 012**	0.002
40, 50	90	**738 010 013**	0.002
63	110	**738 010 014**	0.003
75	125	**738 010 015**	0.003
90	140	**738 010 016**	0.003
110	160	**738 010 017**	0.005
140	200	**738 010 019**	0.006



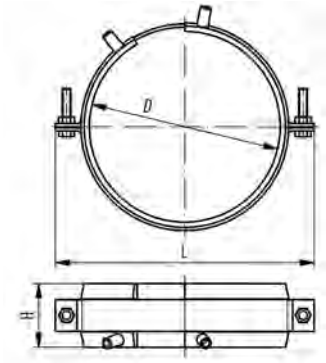
COOL-FIT 2.0 Insulation for welding indicator

Model:

- Sales unit: Bag with 20 pieces

Code	Weight (kg)
738 010 051	0.055





COOL-FIT 2.0 fixed point

Model:

- The product consists of two components namely electrofusion tapes and pipe brackets.
- Electrofusion welded tape as permanent connection to transmit the forces that occur in the pipe to the fixed point.
- The delivered pipe brackets are needed to deliver welding pressure during installtion and give stability during operation.
- For welding, use an MSA2.x, MSA4.x, MSA 250, 300, 350, 400 or commercially available 220 V fusion machines.
- If you use an MSA fusion machine from GF Piping Systems, use the 799 350 339 adapter or the 790 156 032 y-cable set.
- Please take note of the maximum allowed forces for this version in the table below.
- **Fixed point brackets and cross braces have to be calculated and obtained by the installer. They are not included in the fixed point set from GF.**

D (mm)	d (mm)	Code	Weight (kg)	L (mm)	H (mm)	max. Force (kN)	closest inch (inch)
75	32	**738 912 012**	0.750	150	60	2.0	1
90	40 - 50	**738 912 013**	0.895	170	60	3.0 / 5.0	1 ¼ / 1 ½
110	63	**738 912 014**	0.904	180	60	8.0	2
125	75	**738 912 015**	1.103	215	60	10.0	2 1/2
140	90	**738 912 016**	1.188	220	60	10.0	3
160	110	**738 912 017**	1.177	255	60	10.0	4
200	140	**738 912 019**	1.600	310	60	10.0	5



Adaptor

- MSA electrofusion adaptor for COOL-FIT Fixed point

Code	SP	Weight (kg)
799 350 339	2	0.021



COOL-FIT Y cables kit

- The COOL-FIT Y cables are used to speed up the installation of the fixed points electrofusion tapes. The Y cables allow the welding in parallel of 2 E-Tapes, halving the total duration of the fusion process.
- Compatible with all MSA Units

Type	Code	Weight (kg)
4 leads cable with 2mm plugs in output	**790 156 032**	0.385



COOL-FIT 2.0/4.0 Adhesive cement

Model:

- For the jointing of NBR foam insulations of flexible hoses and transition fittings

Code	SP	Weight (kg)
738 010 060	1	0.240



COOL-FIT 2.0/4.0 Adhesive tape

Model:

- For the jointing of NBR foam insulations of flexible hoses and transition fittings
- 30m on a roll

Code	SP	Weight (kg)
738 010 065	1	0.400



Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the materialof PP, PE, PVDF and PB
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

Size	Code	Weight (kg)
1 liter	**799 298 023**	0.872

COOL-FIT 2.0/4.0M Tools



COOL-FIT 2.0/4.0 Foam removal and peeling tool

Model:

- Tool for foam removal and peeling of COOL-FIT 2.0 and 4.0 pipes

d (mm)	Code	Weight (kg)
32-90	**799 738 001**	10.500
110-225	**799 738 003**	16.500
250-450	**799 738 004**	71.000



MSA 2.1 Automatic Electrofusion Unit with protocols retrieval

The MSA 2.1 automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology and furthermore provides fusion documentation in PDF. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion. It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The unit has 1000 protocols permanently stored in the internal memory. The user can copy the fusion reports in an USB stick to print them out in PDF format.
Scope of delivery includes: transport box, angle adapters (4.0 mm and 4.7 mm), operating instructions, START/STOP badge and USB memory stick with PC applications.

Technical Data:

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion voltage: 8-42 V (48 V)
- Fusion data input mode: bar code, manual
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 4 m
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Independent from languages

Type	Code	Weight (kg)
Barcode scanner, transport case, mini Welding Book	**790 156 003**	20.000
Barcode scanner, transport case, mini Welding Book, Swiss plug	**790 156 006**	20.000
Barcode scanner, transport case, mini Welding Book, 8m fusion cable	**790 156 010**	21.000



Double clamp with universal link

- Recommended for the installation of fittings COOL-FIT and ELGEF Plus
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

d (mm)	d1 (mm)	Code	Weight (kg)	Description	L (mm)	B (mm)	H (mm)
40	200	**799 301 490**	4.200	Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (600x380x250)	960	290	230
160	630	**799 301 496**	14.100	Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (780x780x580)	1300	670	550



Quadruple clamp with universal link

- Recommended for the installation of fittings COOL-FIT and ELGEF Plus
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Universal use; works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

d (mm)	d1 (mm)	Code	Weight (kg)	Description	L (mm)	B (mm)	H (mm)
40	200	**799 301 489**	8.300	Scope of delivery: 4 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (600x380x250)	960	290	230
160	630	**799 301 495**	23.300	Scope of delivery: 4 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (780x780x580)	1300	670	550



Tee adaptor

- Suitable for clamping tool (799301489 - 495)

d (mm)	d1 (mm)	Code	Weight (kg)	Description	L (mm)	B (mm)	H (mm)
40	200	**799 301 491**	0.610	Tee adaptor	600	50	40
160	630	**799 301 497**	3.500	Tee adaptor	1070	75	60



V-block

- Suitable for clamping tool (799301489 - 495)

d (mm)	d1 (mm)	Code	Weight (kg)	Description	L (mm)	B (mm)	H (mm)
40	200	**799 301 492**	1.000	V-block complete	290	230	65
160	630	**799 301 498**	3.200	V-block complete	660	430	90



Bar extension

- Suitable for clamping tool (799301489 - 495)

d (mm)	d1 (mm)	Code	Weight (kg)	Description	L (mm)	B (mm)	H (mm)
160	630	**799 301 499**	1.000	Bar extension	1000	40	40

COOL-FIT 4.0



Technical data

Materials
Media pipe: PE100
Insulation: GF HE foam, halogen-free, closed-pore
Outer jacket: Pipe = HDPE, Fitting = GF-HE

Dimensions range
d32/D25 to d140/D450
d = pressure pipe; D = outer jacket

Jointing technology
Electro fusion

Operating pressure
d32 – d110: PN16 bar, SDR 11
d160 – d450: PN10 bar, SDR 17

Operating temperature
–50°C to 60°C (ambient –30°C to 60°C)

Your benefits

+ **100 % maintenance-free**
+ **100 % reliable**
+ **65 % less weight**
+ **50 % faster installation**
+ **30 % higher energy efficiency**

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Dimensioning and Design

General information about the dimensioning and installation of plastic piping

Plastics have different physical characteristics to metals. When designing and installing thermoplastic piping systems, this needs to be taken into account. Although PE and COOL-FIT 4.0 are very robust systems, care should be taken to avoid damage during handling and transportation.

For over 50 years, GF Systems has developed and sold a variety of plastic piping systems which are subjected to very rigorous demands, such as optimized insulation properties in cooling applications. Experience has shown that plastic provides an economical and reliable alternative to metal when designers and installers take account of the recommendations in the technical documentation. In the professional production of plastic piping systems, for example, piping systems must be able to move to accommodate changes in length caused by temperature and pressure changes. To allow for these changes in length, the use of pipe holders that permit this movement is vital.

The following technical information contains the basic information needed to ensure an economical and trouble-free installation. However, this chapter does not contain all of the details. For more information, or if you have specific questions, please call your local GF Piping Systems representative. Additional information is available on the official GF Piping Systems website.

COOL-FIT 4.0 pressure-temperature diagram

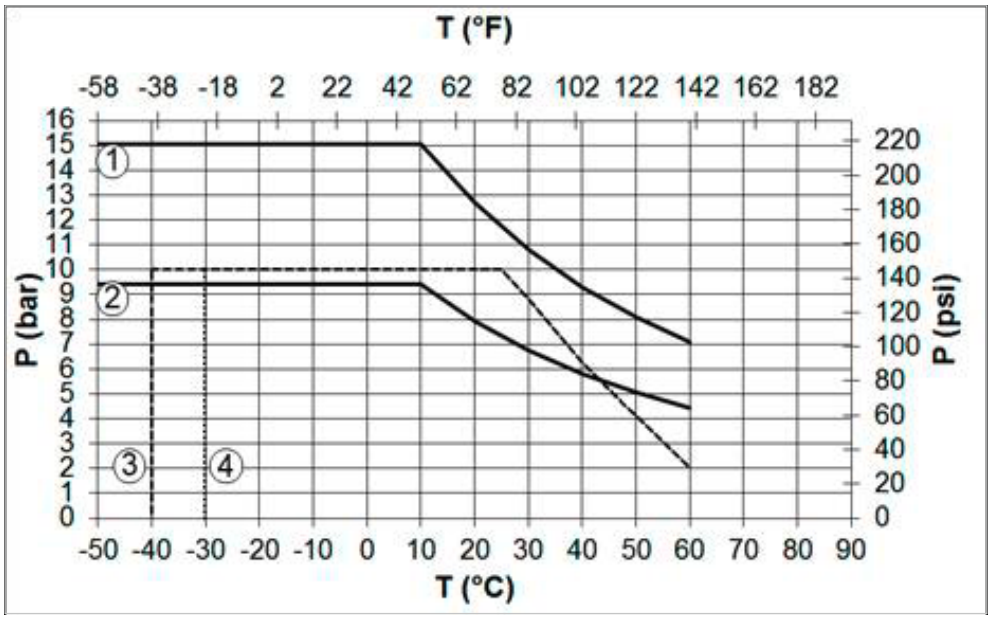
The pressure resistance for thermoplastic pipe for water is always specified at +20 °C. At higher temperatures allowance must be made for a lower maximum operating pressure.

The graph shows the maximum permissible pressure for COOL-FIT 4.0 pipe and fittings at various temperatures, up to the maximum permissible media temperature of +60 °C. The graph is based on an ambient temperature of +20 °C. A safety factor of 1.6 and a minimum lifespan of 25 years have been allowed for in all calculations.

The values given in this chapter apply to both COOL-FIT 4.0 and COOL-FIT 4.0F.

Pressure/temperature limits for COOL-FIT 4.0 pipe, fittings, valves – water as secondary refrigerant

Limits for COOL-FIT 4.0: 25-year values allowing for the safety factor 1.6 (with water as the secondary refrigerant).



P Allowable pressure (bar, psi)
T Temperature (°C, °F)
C Safety factor

a COOL-FIT 4.0 Pipe and fitting d32 – d450, C1.6, SDR11
s COOL-FIT 4.0 Pipe and fitting d160 – d450, C1.6, SDR17
d COOL-FIT 4.0 Ball valve PN10
f COOL-FIT 4.0 Butterfly valve PN10

Influence of secondary refrigerants with antifreeze additives

At media temperatures below 0 °C, antifreeze must be used in the water to prevent it from freezing during a plant shut-down.

COOL-FIT 4.0 is generally resistant to secondary refrigerants such as glycol and salt solutions. For some refrigerants a reduction factor is necessary depending on the type and mixing ratio. The permissible operating pressure is corrected downwards from the pressure-temperature curve for water.

Reduction factors	COOL-FIT 4.0 Pipe and Fitting	COOL-FIT 4.0 Valves
Inorganic brine solutions	F = 1	F = 1
Organic salt solutions	F = 1	F = 1.25
Glycol solutions (max. 50 %)	F = 1.1	F = 1.7

For the calculation, the following formula is used:

$$P_{AF} = \frac{P_w}{AF}$$

P_{AF} Permissible pressure with reduction factor
P_W Permissible pressure for water
AF Reduction factor

Glycol solutions

COOL-FIT 4.0 can be used with glycol solutions with concentrations up to 50%. The chemical resistance of COOL-FIT 4.0 systems is suitable for the following antifreeze types:

Brand name	Manufacturer	Type
Antifrogen N	Clariant	Ethylene glycol
Antifrogen L	Clariant	Propylene glycol
Showbrine Blue Showa standard EC brine	Showa Brine	Ethylene glycol
Tyfocor L	Tyfo	Propylene glycol
Tyfocor	Tyfo	Ethylene glycol
DOWFROST	DOW	Propylene glycol
Zytrec FC	Frigol	Propylene glycol
Zytrec LC	Frigol	Propylene glycol
Zytrec MC	Frigol	Ethylene glycol
Neutrogel Neo	Climalife Dehon	Ethylene glycol
Friogel Neo	Climalife Dehon	Propylene glycol
DOWTHERM SR-1	DOW	Ethylene glycol

When using other secondary refriegerants, compatibility with COOL-FIT 4.0 should be clarified with Georg Fischer Piping Systems.

Example – glycol dissolved in water

For water-glycol mixture ≤ 50%, the reduction factor for the pressure-temperature diagram is 1.7 (for COOL-FIT 4.0 valves). Thus, at +10 °C, with a minimum life of 25 years, the maximum allowable working pressure is reduced as follows:

$$P_{AF} = \frac{10 \text{ bar}}{1.7} = 5.88 \text{ bar}$$

Organic salt solutions

These media are usually potassium formates or potassium acetates: aqueous solutions with low viscosity at low temperatures. COOL-FIT 4.0 can be used with the media below. The manufacturer's instructions must be followed.

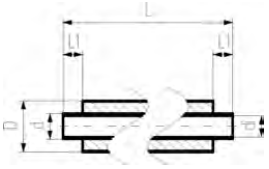
Brand name	Manufacturer	Type
Antifrogen KF	Clariant	Brine
Zytrec S-55	Frigol	Brine
Temper1)	Temper	Brine
Hycool	Addcon	Brine

For detailed information on resistance and reduction factors, see Planning Fundamentals "Material selection – Chemical resistance".

1) Please contact Georg Fischer Piping Systems

COOL-FIT 4.0 Pipes



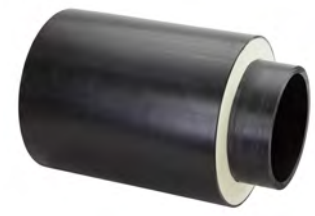


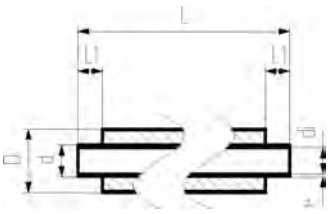
COOL-FIT 4.0 Pipe, d32-d225

Model:

- Pre-insulated PE100 SDR11/17 metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- Length: 5m
- With free ends for electrofusion

d/D (mm)	DN (mm)	SDR	PN (bar)	Code	Weight (kg/m)	di (mm)	L (mm)	L1 (mm)	closest inch (inch)
32/90	25	11	16	**738 173 108**	1.411	26.2	5000	36	1
40/110	32	11	16	**738 173 109**	2.054	32.6	5000	40	1 ¼
50/110	40	11	16	**738 173 110**	2.221	40.8	5000	44	1 ½
63/125	50	11	16	**738 173 111**	2.987	51.4	5000	48	2
75/140	65	11	16	**738 173 112**	3.757	61.4	5000	55	2 ½
90/160	80	11	16	**738 173 113**	4.819	73.6	5000	62	3
110/180	100	11	16	**738 173 114**	6.200	90.0	5000	72	4
160/250	150	17	10	**738 173 117**	9.921	141.0	5000	90	6
225/315	200	17	10	**738 173 120**	16.620	198.2	5000	110	8





COOL-FIT 4.0 Pipe, d250-d450

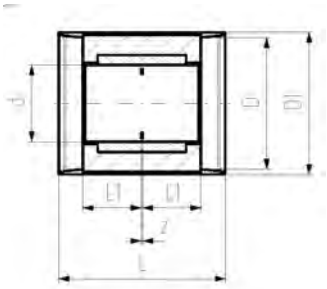
Model:

- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- Length: 5.9m
- With free ends for electrofusion

d/D (mm)	PN (bar)	Code	Weight (kg/m)	di (mm)	L (mm)	L1 (mm)	closest inch (inch)
250/355	10	**738 173 021**	18.180	220.4	5900	123	10
280/400	10	**738 173 022**	22.640	246.8	5900	126	10
315/450	10	**738 173 023**	28.510	277.6	5900	133	12
355/500	10	**738 173 024**	35.350	312.8	5900	148	14
400/560	10	**738 173 125**	44.070	352.6	5900	150	16
450/630	10	**738 173 126**	55.490	396.6	5900	165	18

COOL-FIT 4.0 Fittings



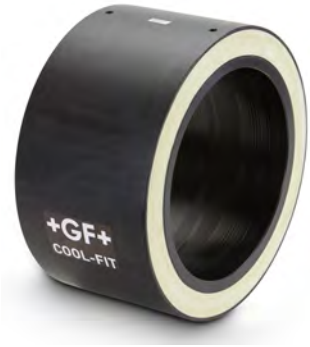


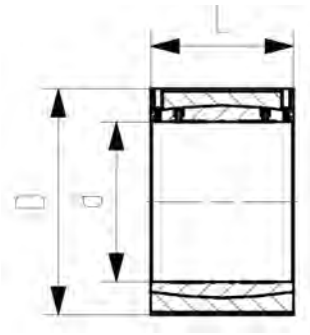
COOL-FIT 4.0 Coupler, d32-d225

Model:

- Pre-insulated PE100 SDR 11 metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- Integrated sealing lip, for a moisture-proof and vapour tight sealing

d/D (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	z (mm)	closest inch (inch)
32/90	25	16	**738 913 108**	0.089	97	127	36	5	1
40/110	32	16	**738 913 109**	0.129	117	133	40	3	1 ¼
50/110	40	16	**738 913 110**	0.169	117	141	44	3	1 ½
63/125	50	16	**738 913 111**	0.240	132	149	48	3	2
75/140	65	16	**738 913 112**	0.520	147	163	55	3	2 ½
90/160	80	16	**738 913 113**	0.750	168	178	62	4	3
110/180	100	16	**738 913 114**	0.831	188	198	72	4	4
160/250	150	16	**738 913 117**	1.726	258	233	90	3	6
225/315	200	16	**738 913 120**	3.783	324	275	110	5	8





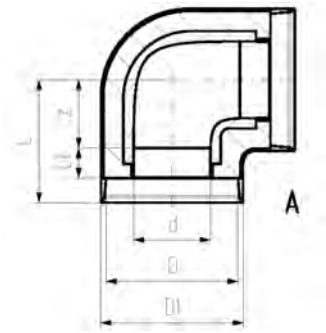
COOL-FIT 4.0 Coupler, d250-d450

Model:

- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black

d/D (mm)	PN (bar)	Code	Weight (kg)	L (mm)	closest inch (inch)
250/355	10	**738 911 821**	6.290	247	10
280/400	10	**738 911 822**	8.020	252	10
315/450	10	**738 911 823**	9.110	267	12
355/500	10	**738 911 824**	13.780	290	14
400/560	10	**738 911 875**	23.450	294	16
450/630	10	**738 911 876**	22.590	326	18





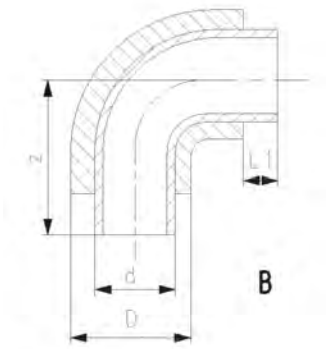
COOL-FIT 4.0 Elbow 90°, d32-d225

Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing

d/D (mm)	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	z (mm)	closest inch (inch)	Type
32/90	16	**738 103 108**	0.255	97	81	36	20	1	A
40/110	16	**738 103 109**	0.177	117	88	40	23	1 ¼	A
50/110	16	**738 103 110**	0.250	117	99	44	30	1 ½	A
63/125	16	**738 103 111**	0.372	132	107	48	34	2	A
75/140	16	**738 103 112**	0.800	147	120	55	40	2 ½	A
90/160	16	**738 103 113**	1.500	168	150	62	63	3	A
110/180	16	**738 103 114**	1.950	188	174	72	77	4	A
160/250	16	**738 103 117**	5.200	258	220	90	105	6	A
225/315	16	**738 103 120**	12.400	324	345	110	210	8	A





COOL-FIT 4.0 Bend 90°, d250-d450

Model:

- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

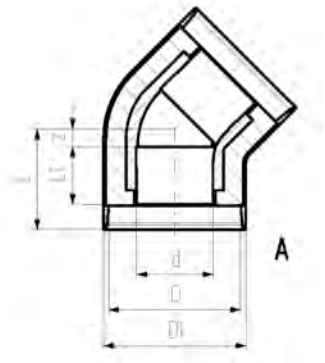
d/D (mm)	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)	closest inch (inch)	Type
250/355	10	**738 003 121**	11.800	123	375	10	B
280/400	10	**738 003 122**	16.560	126	430	10	B
315/450	10	**738 003 123**	28.800	133	470	12	B
355/500	10	**738 003 124**	25.000	148	900	14	B
400/560	10	**738 003 175**	59.640	150	980	16	B
450/630	10	**738 003 176**	79.200	165	1070	18	B



COOL-FIT 4.0 Elbow 45°, d32-d225

Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing



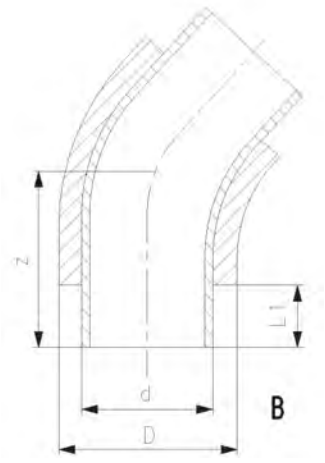
d/D (mm)	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	z (mm)	closest inch (inch)	Type
32/90	16	**738 153 108**	0.108	97	72	36	11	1	A
40/110	16	**738 153 109**	0.162	117	76	40	11	1 ¼	A
50/110	16	**738 153 110**	0.218	117	82	44	13	1 ½	A
63/125	16	**738 153 111**	0.315	132	89	48	16	2	A
75/140	16	**738 153 112**	0.650	147	98	55	18	2 ½	A
90/160	16	**738 153 113**	1.030	168	117	62	30	3	A
110/180	16	**738 153 114**	1.270	188	138	72	41	4	A
160/250	16	**738 153 117**	4.100	258	161	90	46	6	A
225/315	16	**738 153 120**	17.603	324	278	110	143	8	A



COOL-FIT 4.0 Bend 45°, d250-d450

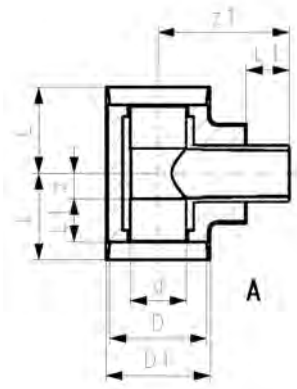
Model:

- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)



d/D (mm)	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)	closest inch (inch)	Type
250/355	10	**738 053 121**	12.840	123	440	10	B
280/400	10	**738 053 122**	18.000	126	460	10	B
315/450	10	**738 053 123**	21.360	133	535	12	B
355/500	10	**738 053 124**	18.720	148	620	14	B
400/560	10	**738 053 175**	43.920	150	650	16	B
450/630	10	**738 053 176**	54.360	165	680	18	B





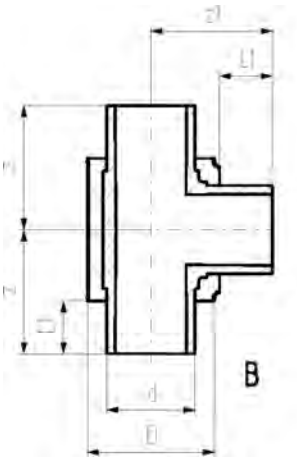
COOL-FIT 4.0 T90° equal, d32-d225

Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing

d/D (mm)	PN (bar)	Code	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	closest inch (inch)	Type
32/90	16	**738 203 108**	0.161	97	79	36	18	118	1	A
40/110	16	**738 203 109**	0.257	117	87	40	22	132	1 ¼	A
50/110	16	**738 203 110**	0.342	117	94	44	25	138	1 ½	A
63/125	16	**738 203 111**	0.514	132	103	48	30	154	2	A
75/140	16	**738 203 112**	1.000	147	116	55	36	168	2 ½	A
90/160	16	**738 203 113**	1.400	1668	130	62	43	187	3	A
110/180	16	**738 203 114**	2.500	188	154	72	57	207	4	A
160/250	16	**738 203 117**	5.600	258	192	90	77	263	6	A
225/315	16	**738 203 120**	16.748	324	355	110	220	337	8	A





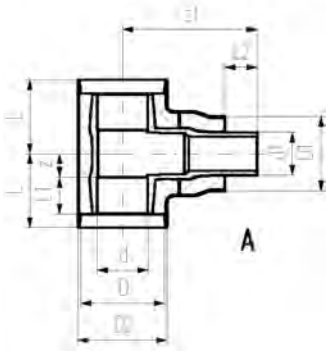
COOL-FIT 4.0 T90° equal, d250-d450

Model:

- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

d/D (mm)	PN (bar)	Code	Weight (kg)	L1 (mm)	z (mm)	z1 (mm)	closest inch (inch)	Type
250/355	10	**738 203 121**	12.000	123	500	500	10	B
280/400	10	**738 203 122**	22.300	126	500	500	10	B
315/450	10	**738 203 123**	21.480	133	500	500	12	B
355/500	10	**738 203 124**	30.600	148	650	700	14	B
400/560	10	**738 203 175**	42.000	150	650	700	16	B
450/630	10	**738 203 176**	67.200	165	700	750	18	B





COOL-FIT 4.0 T90° reduced, d32-d225

Model:

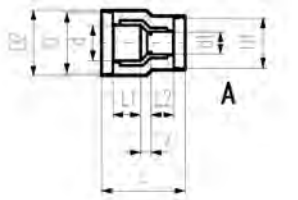
- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing

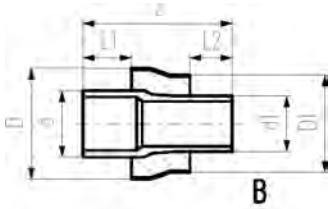
d/D (mm)	d1/D1 (mm)	PN (bar)	Code	Weight (kg)
75/140	63/125	16	**738 203 218**	0.863
90/160	63/125	16	**738 203 222**	1.232
90/160	75/140	16	**738 203 223**	1.293
110/180	63/125	16	**738 203 227**	1.972
110/180	75/140	16	**738 203 228**	1.949
110/180	90/160	16	**738 203 229**	2.037
160/250	63/125	16	**738 203 247**	5.150
160/250	90/160	16	**738 203 249**	5.147
160/250	110/180	16	**738 203 250**	5.220
160/250	140/200	16	**738 204 251**	5.540
225/315	63/125	16	**738 203 264**	16.832
225/315	90/160	16	**738 203 266**	16.889
225/315	110/180	16	**738 203 267**	16.805
225/315	140/200	16	**738 204 268**	17.100
225/315	160/250	16	**738 203 269**	18.500

d/D (mm)	d1/D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	z1 (mm)	Closest inch (inch)	Type
75/140	63/125	147	116	55	48	36	228	2 ½	A
90/160	63/125	168	130	62	48	43	253	3 - 2	A
90/160	75/140	168	130	62	55	43	252	3 - 2 ½	A
110/180	63/125	188	154	72	48	57	267	4 - 2	A
110/180	75/140	188	154	72	55	57	268	4 - 2 ½	A
110/180	90/160	188	154	72	62	57	268	4 - 3	A
160/250	63/125	258	192	90	48	77	327	6 - 2	A
160/250	90/160	258	192	90	62	77	327	6 - 3	A
160/250	110/180	258	192	90	72	77	325	6 - 5	A
160/250	140/200	258	192	90	84	77	340	6 - 5	A
225/315	63/125	324	355	110	48	220	412	8 - 2	A
225/315	90/160	324	355	110	62	220	412	8 - 3	A
225/315	110/180	324	355	110	72	220	412	8 - 4	A
225/315	140/200	324	335	110	84	220	412	8 - 5	A
225/315	160/250	324	355	110	90	220	396	8 - 6	A







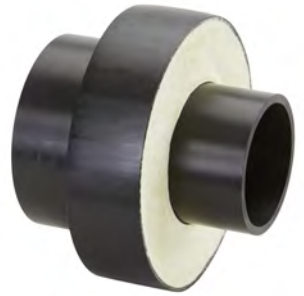


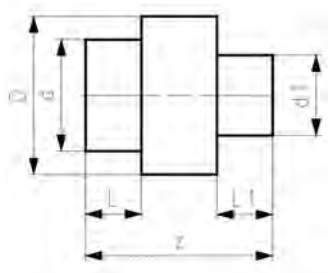
COOL-FIT 4.0 Reducer, d32-d225

Model:

- Pre-insulated PE100 SDR11, metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- B: Spigot Fitting with free end

d/D (mm)	d1/D1 (mm)	PN (bar)	Code	Weight (kg)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	Closest inch (inch)	Type
40/110	32/90	16	**738 903 206**	0.250	117	143	40	36	17	1 ¼ - 1	A
50/110	32/90	16	**738 903 209**	0.280	117	151	44	36	21	1 ½ - 1	A
50/110	40/110	16	**738 903 210**	0.320	117	149	44	40	15	1 ½ - 1 ¼	A
63/125	32/90	16	**738 903 212**	0.217	132	160	48	36	26	2 - 1	A
63/125	40/110	16	**738 903 213**	0.232	132	159	48	40	21	2 - 1 ¼	A
63/125	50/110	16	**738 903 214**	0.243	132	159	48	44	17	2 - 1 ½	A
75/140	63/125	16	**738 903 318**	0.264			55	48	170	2 ½ - 2	B
90/160	63/125	16	**738 903 322**	0.387			62	48	190	3 - 2	B
90/160	75/140	16	**738 903 323**	0.416			62	55	189	3 - 2 ½	B
110/180	63/125	16	**738 903 327**	0.566			72	48	204	4 - 2	B
110/180	75/140	16	**738 903 328**	0.577			72	55	205	4 - 2 ½	B
110/180	90/160	16	**738 903 329**	0.644			72	62	205	4 - 3	B
160/250	63/125	16	**738 903 347**	1.298			90	48	244	6 - 2	B
160/250	90/160	16	**738 903 349**	1.323			90	62	244	6 - 3	B
160/250	110/180	16	**738 903 350**	1.362			90	72	242	6 - 4	B
160/250	140/200	16	**738 904 351**	1.664			90	84	257	6 - 5	B
225/315	63/125	16	**738 903 364**	2.960			110	48	295	8 - 2	B
225/315	90/160	16	**738 903 366**	3.018			110	62	295	8 - 3	B
225/315	110/180	16	**738 903 367**	3.079			110	72	295	8 - 4	B
225/315	140/200	16	**738 904 368**	3.172			110	84	296	8 - 5	B
225/315	160/250	16	**738 903 369**	3.550			110	90	279	8 - 6	B





COOL-FIT 4.0 Reducer, d250-d450

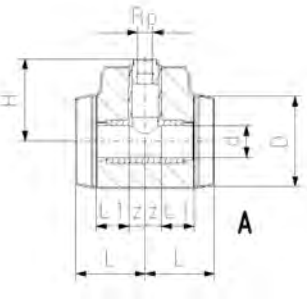
Model:

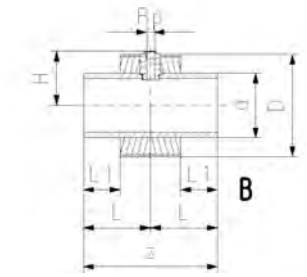
- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

d (mm)	d1 (mm)	D (mm)	PN	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	Type
250	225	355	PN 10	**738 903 802**	2.800	123	110	332	B
280	225	400	PN 10	**738 903 899**	4.700	126	110	335	B
315	225	450	PN 10	**738 903 807**	7.100	133	110	365	B
280	250	400	PN 10	**738 903 803**	5.100	126	123	340	B
315	250	450	PN 10	**738 903 805**	7.400	133	123	365	B
315	280	450	PN 10	**738 903 806**	6.800	133	126	365	B
355	250	500	PN 10	**738 903 808**	8.200	145	123	390	B
355	280	500	PN 10	**738 903 809**	7.700	145	126	390	B
355	315	500	PN 10	**738 903 810**	8.300	145	133	390	B
400	280	560	PN 10	**738 903 871**	9.100	147	126	415	B
400	315	560	PN 10	**738 903 872**	11.400	147	133	415	B
400	355	560	PN 10	**738 903 873**	11.000	147	145	420	B
450	280	630	PN 10	**738 903 874**	13.200	163	126	389	B
450	315	630	PN 10	**738 903 875**	13.600	163	133	390	B
450	355	630	PN 10	**738 903 876**	13.700	163	145	393	B
450	400	630	PN 10	**738 903 877**	14.800	163	147	395	B







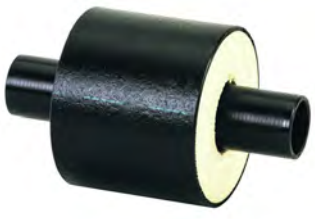


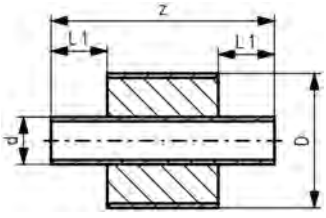
COOL-FIT 4.0 Installation fitting type 313, d32-d225

Model:

- Pre-insulated, PE100, SDR11, metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- With threaded branch for sensors (i.e temperature, pressure)
- A: Electrofusion Fitting with integrated sealing lip, for a water and vapour tight sealing
- B: Spigot Fitting with free end

d/D (mm)	Rp (inch)	PN (bar)	Code	Weight (kg)	H (mm)	L (mm)	L1 (mm)	z (mm)	Type
32/90	½	16	**738 313 608**	0.169	95	79	36	18	A
40/110	½	16	**738 313 609**	0.267	105	87	40	22	A
40/110	¾	16	**738 313 659**	0.269	108	87	40	22	A
50/110	½	16	**738 313 610**	0.354	107	94	44	25	A
50/110	¾	16	**738 313 660**	0.356	110	94	44	25	A
63/125	½	16	**738 313 611**	0.537	120	103	48	30	A
63/125	¾	16	**738 313 661**	0.539	123	103	48	30	A
75/140	½	16	**738 313 612**	0.773	127	116	55	36	A
75/140	¾	16	**738 313 662**	0.774	130	116	55	36	A
90/160	½	16	**738 313 613**	1.164	139	130	62	43	A
90/160	¾	16	**738 313 663**	1.165	142	130	62	43	A
110/180	½	16	**738 313 614**	1.944	151	154	72	57	A
110/180	¾	16	**738 313 664**	1.944	154	154	72	57	A
160/250	½	16	**738 313 617**	2.496	134	165	90	330	B
160/250	¾	16	**738 313 667**	2.489	134	165	90	330	B
225/315	½	16	**738 313 620**	5.155	166	185	110	370	B
225/315	¾	16	**738 313 670**	5.146	169	185	110	370	B





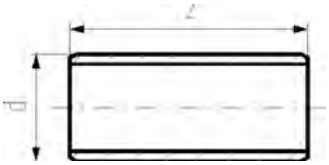
COOL-FIT 4.0 Barrel nipple with insulation, d32-d225

Model:

- Pre-insulated PE100 SDR11/17 metric
- Insulation made from GF HE foam
- Impact resistant. Color: black
- For short connections between COOL-FIT 4.0 Fittings Typ A

d/D (mm)	PN (bar)	SDR	Code	Weight (kg)	L1 (mm)	z (mm)	closest inch (inch)
32/90	16	11	**738 913 408**	0.126	36	151	1
40/110	16	11	**738 913 409**	0.188	40	155	1 ¼
50/110	16	11	**738 913 410**	0.226	44	163	1 ½
63/125	16	11	**738 913 411**	0.328	48	171	2
75/140	16	11	**738 913 412**	0.447	55	185	2 ½
90/160	16	11	**738 913 413**	0.631	62	199	3
110/180	16	11	**738 913 414**	0.929	72	219	4
160/250	10	17	**738 913 417**	1.576	90	255	6
225/315	10	17	**738 913 420**	3.254	110	295	8





COOL-FIT 4.0 Barrel nipple

Model:

- PE100, SDR11/17, metric
- For the shortest possible connection between fittings
- For media temperatures between 0°C up to 60°C
- COOl-FIT 4.0 Adhesive ring needed for joining

d (mm)	SDR	PN	Code	Weight (kg)	z (mm)	closest inch (inch)
32	11	16	**738 910 408**	0.020	72	1
40	11	16	**738 910 409**	0.034	80	1 ¼
50	11	16	**738 910 410**	0.059	88	1 ½
63	11	16	**738 910 411**	0.101	96	2
75	11	16	**738 910 412**	0.162	110	2 ½
90	11	16	**738 910 413**	0.264	124	3
110	11	16	**738 910 414**	0.454	144	4
140	11	16	**738 910 416**	0.855	168	5
160	17	10	**738 910 417**	0.798	180	6
225	17	10	**738 910 420**	1.885	220	8



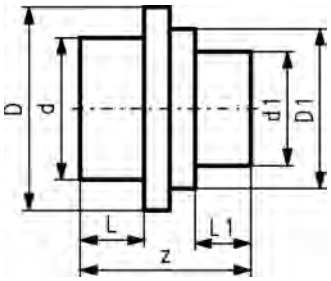
COOL-FIT 4.0 adhesive ring

Model:

- Double sided, for sealing connections of fittings with barrel nipple

d (mm)	D (mm)	Code	Weight (kg)
32	90	**738 010 013**	0.002
40, 50	110	**738 010 014**	0.003
63	125	**738 010 015**	0.003
75	140	**738 010 016**	0.003
90	160	**738 010 017**	0.005
110	180	**738 010 018**	0.005
160	250	**738 010 021**	0.009
225	315	**738 010 023**	0.027





COOL-FIT 4.0 Reducer, d250-d450

Model:

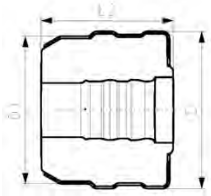
- Pre-insulated PE100 SDR 17 metric
- Insulation made from GF HE foam
- Outer jacket impact resistant. Color: black
- B: Spigot Fitting with free end (separate electrofusion fitting needed for joining)

d/D (mm)	d1/D1 (mm)	PN	Code	Weight (kg)	L (mm)	L1 (mm)	z (mm)	Type
250/355	225/315	PN 10	**738 903 825**	2.800	123	110	332	B
280/400	225/315	PN 10	**738 903 829**	4.700	126	110	335	B
280/400	250/355	PN 10	**738 903 830**	5.100	133	110	365	B
315/450	225/315	PN 10	**738 903 836**	7.100	126	110	340	B
315/450	250/355	PN 10	**738 903 837**	7.400	133	123	365	B
315/450	280/400	PN 10	**738 903 838**	6.800	133	126	365	B
355/500	250/355	PN 10	**738 903 844**	8.200	148	123	390	B
355/500	280/400	PN 10	**738 903 845**	7.700	148	126	390	B
355/500	315/450	PN 10	**738 903 846**	8.300	148	133	390	B
400/560	280/400	PN 10	**738 903 853**	9.100	150	126	415	B
400/560	315/450	PN 10	**738 903 854**	11.400	150	133	420	B
400/560	355/500	PN 10	**738 903 855**	11.000	150	148	405	B
450/630	280/400	PN 10	**738 903 862**	13.200	165	126	390	B
450/630	315/450	PN 10	**738 903 863**	13.600	165	133	390	B
450/630	355/500	PN 10	**738 903 864**	13.700	165	148	393	B
450/630	400/560	PN 10	**738 903 865**	14.800	165	150	395	B

COOL-FIT 4.0 Transition Fittings







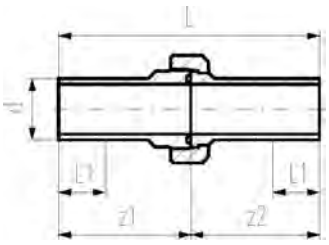
COOL-FIT 4.0 Adaptor fitting PE/stainless steel with loose union nut G

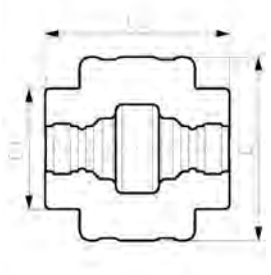
Model:

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with female thread G
- Including flat seal EPDM
- Including insulation half shells

d (mm)	G (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
32	1/2"	16	**738 943 308**	0.250	104	133	36	101	126
32	3/4"	16	**738 943 318**	0.264	104	135	36	101	129
32	1"	16	**738 943 328**	0.296	104	135	36	101	129
40	1 1/4"	16	**738 943 309**	0.595	128	155	40	91	148
40	1 1/2"	16	**738 943 319**	0.655	128	157	40	91	148
50	1 1/2"	16	**738 943 310**	0.820	138	164	44	96	154
63	2"	16	**738 943 311**	1.307	149	186	48	103	170







COOL-FIT 4.0 Union PE/PE

Model:

- Union bush: Spigot fitting PE100 SDR11, metric with free end
- Union End: Spigot fitting PE100 SDR11, metric with free end
- Gasket: O-ring EPDM Nr. 748 410 008-014
- Union Nut: PEGF25
- Including insulation half shells

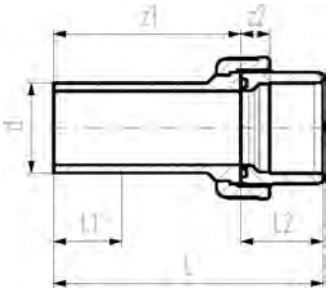
d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)
32	16	**738 513 608**	0.223	139	90	211	36	139	107	104
40	16	**738 513 609**	0.363	153	110	234	40	158	118	116
50	16	**738 513 610**	0.468	165	110	247	44	163	124	123
63	16	**738 513 611**	0.584	185	125	268	48	176	136	132



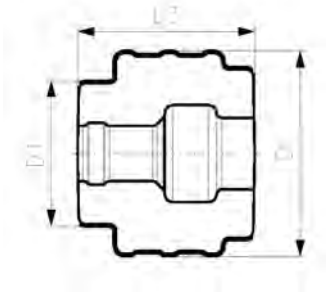
COOL-FIT 4.0 Adaptor Union PE/ABS

Model:

- Union bush: ABS Solvent cement socket
- Union End: Spigot fitting PE100 SDR11, metric with free end
- Gasket: O-ring EPDM Nr. 748 410 008-014
- Union Nut: ABS
- Including insulation half shells



d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	z1 (mm)	z2 (mm)
32	10	**738 513 708**	0.169	134	90	137	36	33	109	104	11
40	10	**738 513 709**	0.256	143	110	156	40	39	126	117	13
50	10	**738 513 710**	0.334	154	110	169	44	46	135	123	15
63	10	**738 513 711**	0.522	172	125	190	48	58	152	132	21
75	10	**738 513 712**	0.996	210	140	211	55	62	170	149	18
90	10	**738 513 713**	1.336	233	160	215	62	69	167	146	18
110	10	**738 513 714**	1.900	263	180	235	72	72	177	163	11



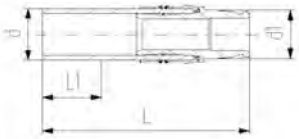


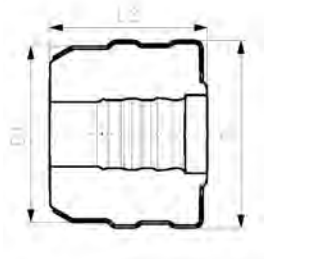
COOL-FIT 4.0 Adaptor fitting PE/iFIT

Model:

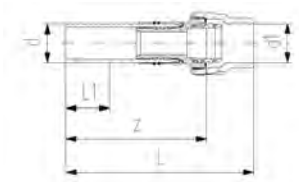
- Spigot fitting PE100 SDR11, metric with free end
- iFIT module stainless steel 1.4404 / 316L
- Including insulation half shells

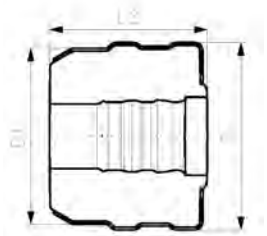
d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)
32	25-32	16	**738 943 108**	0.256	103	90	132	36	80











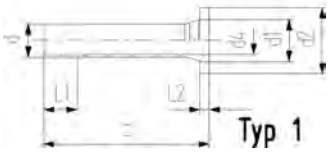
COOL-FIT 4.0 Adaptor fitting PE/Sanipex MT

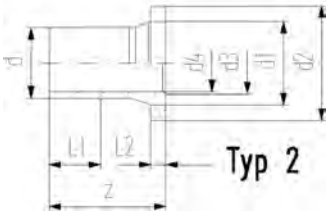
Model:

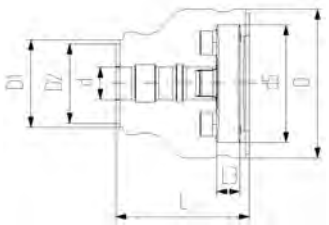
- Spigot fitting PE100 SDR11, metric with free end
- Sanipex MT adaptor brass CuZn40Pb2
- Including insulation half shells

d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)
32	32	10	**738 953 118**	0.476	104	90	174	36	101	135









COOL-FIT 2.0/4.0 Flange adaptor

Model:

- PE100 SDR11, metric
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Type 1 without chamfer, Type 2 with chamfer
- Separate Fittings type A needed for joining

Note:

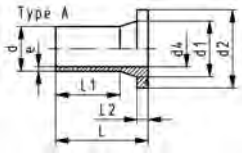
Backing ring and gasket not included

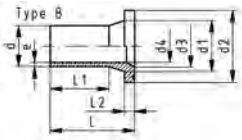
d (mm)	DN (mm)	PN	Code	Weight (kg)
32	25	16	**738 710 008**	0.051
40	32	16	**738 710 009**	0.075
50	40	16	**738 710 010**	0.900
63	50	16	**738 710 011**	0.173
75	65	16	**738 710 012**	1.210
90	80	16	**738 710 013**	1.193
110	100	16	**738 710 014**	1.574
140	125	16	**738 710 016**	2.412
160	150	16	**738 710 017**	1.748
225	200	16	**738 710 020**	10.440

d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	z (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	d5 (mm)	Type
32	25	135	90	75	162	36	10	26	190	40	68		26	121	1
40	32	170	110	90	165	40	11	28	197	50	78		32	146	1
50	40	180	110	90	178	44	12	30	214	61	88		40	156	1
63	50	200	125	110	230	48	14	32	270	75	102		51	171	1
75	65	220	140	125	232	55	16	34	279	89	122		61	191	2
90	80	240	160	140	245	62	17	35	299	105	138	78	73	206	2
110	100	270	180	160	254	72	18	36	320	125	158	100	90	235	2
140	125	300	225	200	299	84	25	38	383	155	188	127	127	256	2
160	150	358	259		332	90	25	34	412	174	213	151	131	295	2
225	200	423	325		383	110	32	37	483	233	268	209	184	354	2









Flange adaptor PE100 SDR17/17.6
Combined jointing face: flat and serrated

Model:

- Long spigot
- Material: PE100
- For IR, butt- and electro fusion
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Gasket d20-d630: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- Gasket d710-d1000: flat gasket EPDM No. 48 40 03
- Type A without chamfer, Type B with chamfer
- 5 bar Gas / 10 bar Water
- Up to d400, suitable for butterfly valve type 567/578. Above use ecoFIT adaptor for butterfly valves SDR17.6 (d450-d1200)

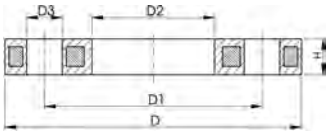
* Installation support through moulded ribs

	d (mm)	DN (mm)	FM	Code	Weight (kg)
	50	40	IR	**753 800 085**	0.107
	63	50	IR	**753 800 086**	0.168
	75	65	IR	**753 800 087**	0.260
	90	80	IR	**753 800 088**	0.367
	110	100	IR	**753 800 089**	0.571
	125	100	IR	**753 800 090**	0.684
	140	125	IR	**753 800 091**	1.035
	160	150	IR	**753 800 092**	1.342
	180	150	IR	**753 800 093**	1.469
	200	200	IR	**753 800 094**	2.297
	225	200	IR	**753 800 095**	2.456
	250	250		**753 800 096**	3.500
	280	250		**753 800 097**	3.780
	315	300		**753 800 098**	5.470
*	355	350		**753 800 299**	7.100
*	400	400		**753 800 300**	9.600
*	450	500		**753 800 301**	16.400

	d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type
	50	61	88		44	90	62	12	3.0	A
	63	75	102		55	106	70	14	3.8	A
	75	89	122		66	130	75	16	4.5	A
	90	105	138		79	140	103	17	5.4	A
	110	125	158		96	160	117	18	6.6	A
	125	132	158	114	110	170	125	25	7.4	B
	140	155	188	127	123	200	147	25	8.3	B
	160	175	212	151	141	200	147	25	9.5	B
	180	180	212		158	200	170	30	10.7	A
	200	232	268	203	176	200	128	32	11.9	B
	225	235	268	210	198	200	138	32	13.4	B
	250	285	320	245	220	220	148	35	14.8	B
	280	291	320	265	246	230	154	35	16.6	B
	315	335	370	300	277	242	166	36	18.7	B
*	355	373	430	346	310	260	170	33	21.1	B
*	400	427	482	395	350	282	185	36	23.7	B
*	450	514	585	400	400	316	205	46	26.7	B







Backing flange PP-Steel metric
For butt fusion systems metric

Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes

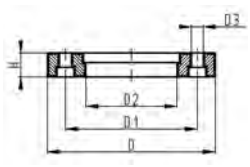
[1]) Suitable for socket -and butt fusion systems

[2]) Combined version, bolt circle metric - ANSI

	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	20	15	16	**727 700 206**	0.216	95	65	28	14	12	4	M12
1	25	20	16	**727 700 207**	0.279	105	75	34	14	12	4	M12
1	32	25	16	**727 700 208**	0.429	115	85	42	14	16	4	M12
1	40	32	16	**727 700 209**	0.621	140	100	51	18	16	4	M16
1	50	40	16	**727 700 210**	0.722	150	110	62	18	20	4	M16
1	63	50	16	**727 700 211**	0.900	165	125	78	18	20	4	M16
1	75	65	16	**727 700 212**	1.110	185	145	92	18	20	4	M16
	90	80	16	**727 700 313**	1.390	200	160	108	18	20	8	M16
	110	100	16	**727 700 314**	1.407	220	180	128	18	20	8	M16
	125	100	16	**727 700 315**	1.408	220	180	135	18	20	8	M16
	140	125	16	**727 700 716**	2.318	250	210	158	18	26	8	M16
2	160	150	16	**727 700 717**	3.491	285	240	178	22	26	8	M20
	180	150	16	**727 700 718**	3.108	285	240	188	22	26	8	M20
2	200	200	16	**727 700 719**	5.600	340	295	235	22	29	8	M20
2	225	200	16	**727 700 720**	5.533	340	295	238	22	29	8	M20
	250	250	16	**727 700 721**	6.632	395	350	288	22	32	12	M20
	280	250	16	**727 700 722**	6.573	395	350	294	22	32	12	M20
	315	300	16	**727 700 723**	7.903	445	400	338	22	36	12	M20
	355	350	16	**727 700 724**	14.587	515	460	376	23	42	16	M20
	400	400	16	**727 700 725**	20.034	574	515	430	26	42	16	M24







Profiled backing flange PP-Steel metric
For butt fusion systems metric

Model:

- PP with glass-fibre reinforcement and GGG 50 insert
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

Note:

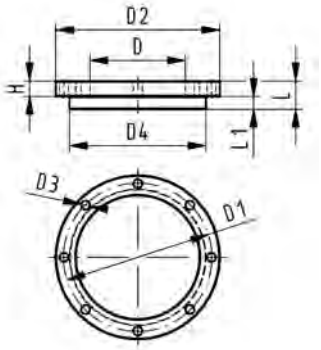
flat side = bolt side profiled side = flange adaptor side

AL: number of holes

* Galvanized steel S235-JR, suitable for underground laying

	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	AL	SC
*	450	450	10	**724 705 026**	38.000	615	565	470	26	36	20	M24
	450	500	10	**724 700 426**	25.600	685	620	517	26	56	20	M24





Blanking flange set PE
Combined jointing face flat and serrated metric

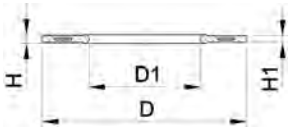
Model:

- d63 - d315: backing flange PP-V with end blank PE
- d355 - d630: backing flange PP/Steel with end blank PE
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

AL: number of holes
L: length of the End Blank

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	L (mm)	L1 (mm)	H (mm)	AL	SC
63	50	16	**753 700 611**	0.560	75	125	165	18	102	30	14	24	4	M16
75	65	16	**753 700 612**	0.910	89	145	185	18	122	30	16	26	4	M16
90	80	16	**753 700 613**	0.921	105	160	200	18	138	30	17	27	8	M16
110	100	16	**753 700 614**	1.158	125	180	220	18	158	30	18	28	8	M16
125	100	16	**753 700 615**	1.678	132	180	220	18	158	35	25	28	8	M16
140	125	16	**753 700 616**	1.913	155	210	250	18	188	40	25	30	8	M16
160	150	16	**753 700 617**	2.373	175	240	285	22	212	40	25	32	8	M20
180	150	16	**753 700 618**	2.430	180	240	285	22	212	45	30	32	8	M20
200	200	16	**753 700 619**	3.495	232	295	340	22	268	50	32	34	8	M20
225	200	16	**753 700 620**	3.744	235	295	340	22	268	50	32	34	8	M20
250	250	16	**753 700 621**	6.051	285	350	395	22	320	55	35	38	12	M20
280	250	16	**753 700 622**	6.305	291	350	395	22	320	60	35	38	12	M20
315	300	16	**753 700 623**	8.894	335	400	445	22	370	65	35	42	12	M20
355	350	16	**753 700 624**	23.198	373	460	515	22	430	70	40	40	16	M20
400	400	16	**753 700 625**	30.766	427	515	574	26	482	75	46	40	16	M24
450	500	10	**753 700 626**	44.271	510	620	684	26	585	80	60	49	20	M24





Profile Flange Gasket, metric
EPDM / FKM

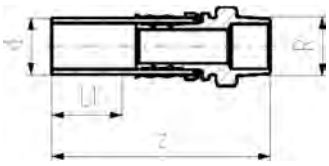
Model:

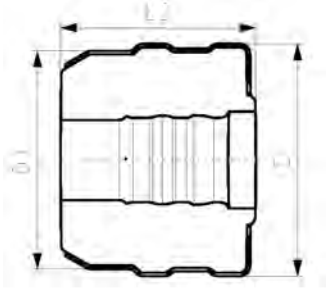
- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring

di FA are the suitable inner diameters of flanges adaptors

d (mm)	PN (bar)	DN (mm)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
16	16	10	**748 440 705**	**749 440 705**	0.012	46	16	6 - 16	4	3
20	16	15	**748 440 706**	**749 440 706**	0.013	51	20	10 - 20	4	3
25	16	20	**748 440 707**	**749 440 707**	0.014	61	22	12 - 22	4	3
32	16	25	**748 440 708**	**749 440 708**	0.019	71	28	18 - 28	4	3
40	16	32	**748 440 709**	**749 440 709**	0.026	82	40	30 - 40	4	3
50	16	40	**748 440 710**	**749 440 710**	0.039	92	46	36 - 46	4	3
63	16	50	**748 440 711**	**749 440 711**	0.050	107	58	48 - 58	5	4
75	16	65	**748 440 712**	**749 440 712**	0.082	127	69	59 - 69	5	4
90	16	80	**748 440 713**	**749 440 713**	0.083	142	84	73 - 84	5	4
110	16	100	**748 440 714**	**749 440 714**	0.127	162	104	94 - 104	6	5
125	16	100	**748 440 715**	**749 440 715**	0.105	162	123	113 - 123	6	5
140	16	125	**748 440 716**	**749 440 716**	0.173	192	137	127 - 137	6	5
160 - 180	16	150	**748 440 717**	**749 440 717**	0.207	218	160	150 - 160	8	6
200	16	200	**748 440 719**	**749 440 719**	0.263	273	203	192 - 203	8	6
225	16	200	**748 440 720**	**749 440 720**	0.255	273	220	207 - 220	8	6
250	16	250	**748 440 721**	**749 440 721**	0.462	328	252	238 - 252	8	6
280	16	250	**748 440 722**	**749 440 722**	0.323	328	274	264 - 274	8	6
315	16	300	**748 440 723**	**749 440 723**	0.549	378	306	296 - 306	8	6
355	16	350	**748 440 724**	**749 440 724**	0.870	438	355	340 - 355	10	7
400	16	400	**748 440 725**	**749 440 725**	1.088	489	400	385 - 400	10	7
450	16	500		**749 440 726**	0.718	594	403	393 - 403	10	7







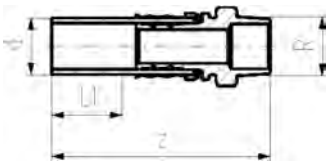
COOL-FIT 4.0 Adaptor fitting PE/stainless steel with male thread R

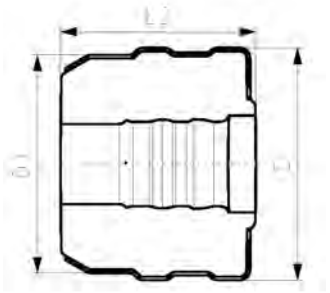
Model:

- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM
- Including Insulation made from NBR foam

d (mm)	R (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L1 (mm)	L2 (mm)	z (mm)
32	½	16	**738 943 508**	0.224	104	90	36	80	130
32	¾	16	**738 943 518**	0.232	104	90	36	80	134
32	1	16	**738 943 528**	0.241	104	90	36	80	134
40	1 ¼	16	**738 943 509**	0.655	128	110	40	91	156
50	1 ½	16	**738 943 510**	1.020	138	110	44	96	168
63	2	16	**738 943 511**	1.458	149	125	48	103	179







COOL-FIT 4.0 Adaptor fitting PE/stainless steel with female thread Rp

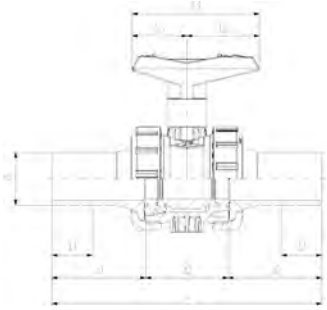
Model:

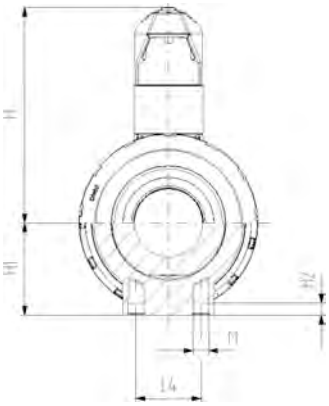
- Spigot fitting PE100 SDR11, metric with free end
- Stainless steel 1.4404 / 316L with male thread R
- Gasket: O-ring EPDM
- Including Insulation half shells

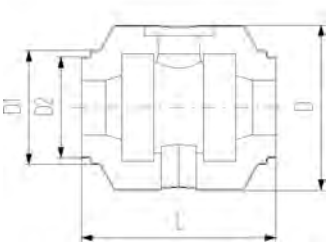
d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L1 (mm)	L2 (mm)	z (mm)
32	16	**738 943 008**	0.247	104	90	36	101	118
32	16	**738 943 018**	0.272	104	90	36	101	116
32	16	**738 943 028**	0.297	104	90	36	101	115
40	16	**738 943 009**	0.683	128	110	40	91	141
50	16	**738 943 010**	0.734	138	110	44	96	128
63	16	**738 943 011**	1.244	149	125	48	103	140

COOL-FIT 4.0 Valves









COOL-FIT 4.0 Ball valve type 546, hand-operated

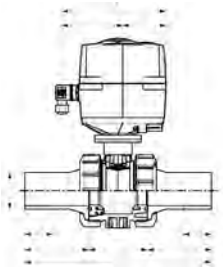
Model:

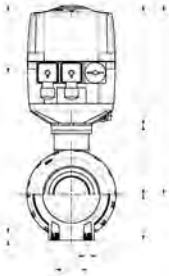
- Material: ABS with spigot PE100 SDR11, metric
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Including insulation half shells
- Separate Fittings type A needed for joining

d (mm)	DN (mm)	PN	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
32	25	10	700	**138 546 108**	0.542
40	32	10	1000	**138 546 109**	0.887
50	40	10	1600	**138 546 110**	1.165
63	50	10	3100	**138 546 111**	2.100
75	65	10	5000	**138 546 112**	5.125
90	80	10	7000	**138 546 113**	7.173

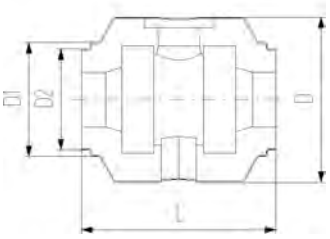
d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	z (mm)	z1 (mm)	z2 (mm)	closest inch (inch)
32	25	135	97	82	152	36	97	98	36	12	223	76	76	1
40	32	157	117	97	170	40	128	119	44	15	249	82	82	1 ¼
50	40	169	117	97	184	44	128	125	51	15	271	91	91	1 ½
63	50	204	132	117	227	48	152	150	64	15	321	110	110	2
75	65	235	147	132	276	55	270	194	85	15	386	125	125	2 ½
90	80	255	168	147	297	62	270	200	105	15	421	140	140	3











COOL-FIT 4.0 Ball valve type 179, electric

Model:

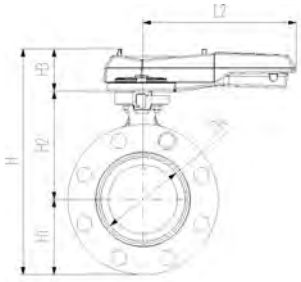
- Material: ABS with spigot PE100 SDR11, metric
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°
- Heating element, position feedback (Open/Close/ Middle)
- Including insulation half shells
- Separate Fittings type A needed for joining

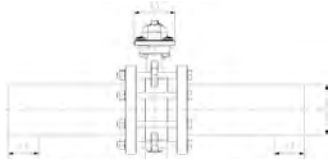
d (mm)	DN (mm)	PN (bar)	kv-value (dp=1bar)	Code	Weight (kg)
32	25	10	700	**138 546 208**	2.838
40	32	10	1000	**138 546 209**	3.174
50	40	10	1600	**138 546 210**	3.452
63	50	10	3100	**138 546 211**	4.475
75	65	10	5000	**138 546 212**	7.156
90	80	10	7000	**138 546 213**	13.000

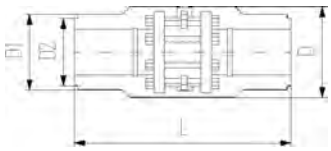
d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	H (mm)	H1 (mm)	H2 (mm)	z (mm)	z1 (mm)	z2 (mm)	M
32	25	135	97	82	152	36	190	25	228	36	12	223	76	71	M6
40	32	157	117	97	170	40	190	45	240	44	15	249	82	85	M8
50	40	169	117	97	184	44	190	45	246	51	15	271	91	89	M8
63	50	204	132	117	227	48	190	45	263	64	15	321	110	101	M8
75	65	235	147	132	276	55	190	70	322	85	15	386	125	136	M8
90	80	255	168	147	297	62	190	70	357	105	15	421	140	141	M8

d (mm)	DN (mm)	closest inch (inch)
32	25	1
40	32	1 ¼
50	40	1 ½
63	50	2
75	65	2 ½
90	80	3









COOL-FIT 4.0 Butterfly valve kit type 567, hand-operated

Model:

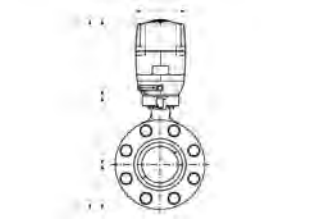
- Material: ABS with spigot PE100 SDR11, metric
- Including flange adaptors, backing flanges PP-Steel, bolts and insulation half shells
- Separate Fittings type A needed for joining

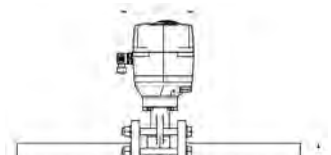
d (mm)	DN (mm)	PN	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
110	100	10	6500	**138 567 114**	8.950
160	150	10	16600	**138 567 117**	17.975
225	200	10	39600	**138 567 120**	28.316

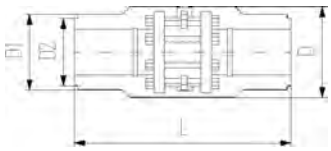
d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	z (mm)	z1 (mm)	z2 (mm)
110	100	310	188	168	556	72	255	106	325	104	167	55	696	320	56
160	150	358	259		720	90	255	115	143	143	203	55	895	412	72
225	200	409	325		776	110	408	149	465	170	210	85	996	462	73

d (mm)	DN (mm)	closest inch (inch)
110	100	4
160	150	5
225	200	8









COOL-FIT 4.0 Butterfly valve kit type 145, electric

Model:

- Material: ABS with spigot PE100 SDR11, metric
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°
- Heating element, position feedback (Open/Close/ Middle)
- Including flange adaptors, backing flanges PP-Steel, bolts and insulation half shells
- Separate Fittings type A needed for joining

d (mm)	DN (mm)	PN	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
110	100	10	6500	**138 567 214**	13.320
160	150	10	16500	**138 567 217**	22.346
225	200	10	39600	**138 567 220**	36.037

d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	z (mm)	z1 (mm)	z2 (mm)
110	100	310	188	168	552	72	179	122	460	104	167	190	696	320	56
160	150	358	259		720	90	179	122	535	143	203	190	895	412	72
225	200	409	325		776	110	179	122	580	170	210	200	996	462	73

d (mm)	DN (mm)	closest inch (inch)
110	100	4
160	150	6
225	200	8

COOL-FIT 4.0 Accessories



COOL-FIT 4.0 Assembly Aid-Kit Type B

Model:

- For simplified mounting of COOL-FIT 4.0 Fitting on COOL-FIT 4.0 Pipe

d (mm)	D (mm)	Code	Weight (kg)	pieces/kit
32	90	**799 738 511**	0.384	6
40 - 50	110	**799 738 512**	0.456	6
63	125	**799 738 513**	0.504	6
75	140	**799 738 514**	0.564	6
90	160	**799 738 515**	0.636	6
110	180	**799 738 516**	0.708	6
160	250	**799 738 519**	0.620	4
225	315	**799 738 522**	0.760	4



COOL-FIT 4.0 Insulation for welding indicator-kit

Model:

- Type A suitable for COOL-FIT 4.0 Fittings d32-d110
- Type B suitable for COOL-FIT 4.0 Fittings d160 and coupler d225
- Type C suitable for COOL-FIT 4.0 Fittings d225 except coupler

d (mm)	Code	Weight (kg)	Type	pieces/kit
32 - 110	**738 010 052**	0.090	A	20
160 - 225	**738 010 053**	0.200	B	10
225	**738 010 054**	0.033	C	10

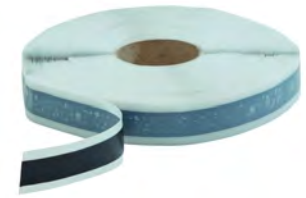


COOL-FIT 4.0 Sealing clamp-kit

Model:

- Supports the function of the top sealing lip of COOL-FIT 4.0 Fittings for vertical installations outdoor
- Material: stainless steel 304/V2A
- Color: black

d (mm)	D (mm)	Code	Weight (kg)	pieces/kit
32	90	**738 013 013**	0.250	6
40 - 50	110	**738 013 014**	0.300	6
63	125	**738 013 015**	0.300	6
75	140	**738 013 016**	0.300	6
90	160	**738 013 017**	0.300	6
110	180	**738 013 018**	0.300	6
160	250	**738 013 021**	0.390	6
225	315	**738 013 023**	0.450	6



COOL-FIT 4.0 Sealing tape

Model:

- Supports the function of the top sealing lip of COOL-FIT 4.0 Fittings for vertical installations outdoor
- 30m on a roll, 25mm width, buthylene rubber-based

d (mm)	D (mm)	Code	Weight (kg)
32 - 225	90 - 315	**738 013 031**	1.400

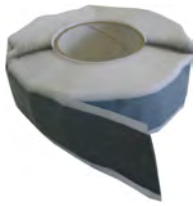


COOL-FIT 4.0 Transition of Insulation

Model:

- For a moistur-proof and vapour tight transition of insulations from COOL-FIT 4.0 to COOL-FIT 2.0
- 4.5m on a roll, buthylene rubber-based

d (mm)	D (mm)	Code	Weight (kg)
32-110	90-180	**738 013 041**	1.400



Sealing tape

Model:

- For a water- and steam-tight sealing of inspection gaps in combination with shrink sleeves/ -sockets
- Sealing tape: 40mm width, buthylene rubber-based
- 30 m on a roll

D (mm)	d-d (mm)	Code	Weight (kg)	Closest inch (inch)
90 - 450	25 - 315	**738 011 152**	2.134	¾ - 12

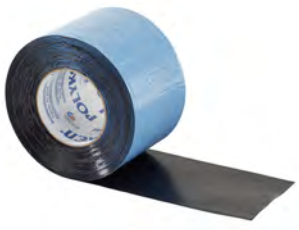


Shrink socket PE

Model:

- For a water- and steam-tight sealing in combination with buthylene rubber-based sealing tape
- Length: 100 mm
- "Heavy duty" version for high end applications
- For connections of the same pipe outer diameter

D (mm)	d (mm)	Code	SP	Weight (kg)	L (mm)
90	25 - 32	**738 011 013**	0	0.100	100
110	40 - 50	**738 011 014**	0	0.113	100
125	63	**738 011 015**	0	0.133	100
140	75	**738 011 016**	0	0.146	100
160	90	**738 011 017**	0	0.165	100
180	110	**738 011 018**	0	0.222	100
225	140	**738 011 020**	0	0.280	100
250	160	**738 011 021**	0	0.352	100
280	200	**738 011 022**	0	0.371	100
315	225	**738 011 023**	0	0.444	100
355	250	**738 011 024**	1	0.900	100
400	280	**738 011 025**	1	1.100	100
450	315	**738 011 026**	1	1.900	100
500	355	**738 011 027**	1	1.000	100
560	400	**738 011 028**	1	1.000	100
630	450	**738 011 029**	1	1.000	100



Cold shrink tape PE black

Model:

- For indoor use only
- Width (L) available in 100mm
- 15 m on a roll
- Shrinks without heat application

D (mm)	d-d (mm)	Code	Weight (kg)	Closest inch (inch)
90 - 450	25 - 315	**738 011 107**	1.400	¾ - 8



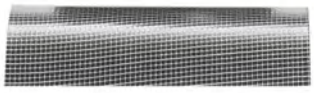
Hot shrink tape PE black

Model:

- For watertight sealing of outer pipe in underground installations
- Mastic backed
- 30 m on a roll
- Shrink with a burner or hot air gun
- Order sealing patches separately (738 011 109)

D (mm)	d-d (mm)	Code	Weight (kg)	L (mm)	Closest inch (inch)
90 - 630	25 - 450	**738 011 108**	3.000	150	¾ - 18

Aussenrohr/ casing pipe	Länge Schrumpfband length shrink tape
90	370
110	440
125	480
140	530
160	600
180	660
225	800
250	880
280	970
315	1080
355	1210
400	1350
450	1500
500	1660
560	1850
630	2070



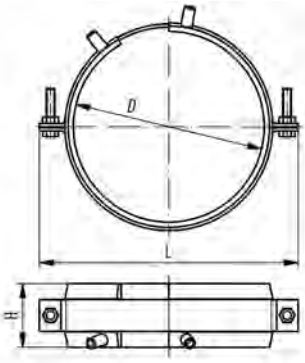
Sealing patch

Model:

- For sealing of hot-shrink-tape in underground installations
- Mastic backed
- 1 patch needed per seal

D (mm)	d-d (mm)	Code	Weight (kg)	L (mm)	Closest inch (inch)
90 - 630	25 - 450	**738 011 109**	0.100	150	¾ - 18





COOL-FIT 4.0 fixed point

Model:

- The product consists of two components namely electrofusion tapes and pipe brackets.
- Electrofusion welded tape as permanent connection to transmit the forces that occur in the pipe to the fixed point.
- The delivered pipe brackets are needed to deliver welding pressure during installtion and give stability during operation.
- For welding, use an MSA2.x, MSA4.x, MSA 250, 300, 350, 400 or commercially available 220 V fusion machines.
- If you use an MSA fusion machine from GF Piping Systems, use the 799 350 339 adapter or the 790 156 032 y-cable set.
- Please take note of the maximum allowed forces for this version in the table below.
- **Fixed point brackets and cross braces have to be calculated and obtained by the installer. They are not included in the fixed point set from GF.**

D (mm)	d (mm)	Code	SP	Weight (kg)	L (mm)	H (mm)	max Force (kN)	Closest inch (inch)
90	32	**738 912 013**	1	0.895	170	60	2.0	1 ¼ - 1 ½
110	40 - 50	**738 912 014**	1	0.904	180	60	3.0 / 5.0	2
125	63	**738 912 015**	1	1.103	215	60	8.0	2 ½
140	75	**738 912 016**	1	1.188	220	60	10.0	3
160	90	**738 912 017**	1	1.177	255	60	10.0	4
180	110	**738 912 018**	1	1.530	255	60	10.0	4
250	160	**738 912 021**	1	1.957	335	60	10.0	6
315	225	**738 912 023**	1	2.388	400	60	10.0	8
355	250	**738 912 024**	1	2.388	420	60	10.0	10

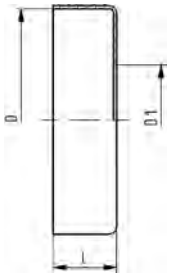


COOL-FIT Y cables kit

- The COOL-FIT Y cables are used to speed up the installation of the fixed points electrofusion tapes. The Y cables allow the welding in parallel of 2 E-Tapes, halving the total duration of the fusion process.
- Compatible with all MSA Units

Type	Code	Weight (kg)
4 leads cable with 2mm plugs in output	**790 156 032**	0.385





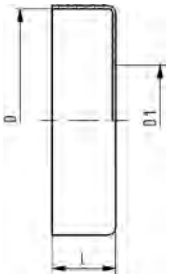
COOL-FIT ABS Plus Cap PE black

Model:

- To seal the end of a COOL-FIT Plus pipe

d (mm)	D (mm)	D1 (mm)	Code	Weight (kg)	L (mm)	closest inch (inch)
25	90	24	**733 960 171**	0.026	35	¾
32	90	32	**733 960 172**	0.014	35	1
40	110	39	**733 960 173**	0.036	35	1 ¼
50	110	48	**733 960 174**	0.024	35	1 ½
63	125	59	**733 960 175**	0.045	35	2
75	140	70	**733 960 176**	0.029	35	2 ½
90	160	83	**733 960 177**	0.031	35	3
110	180	100	**733 960 178**	0.055	35	4
140	225	127	**733 960 180**	0.081	35	5
160	250	144	**733 960 181**	0.066	35	6
200	280	187	**733 960 183**	0.146	35	8
225	315	210	**733 960 184**	0.125	35	8
250	355	265	**733 960 185**	0.155	35	10
280	400	300	**733 960 186**	0.185	35	10

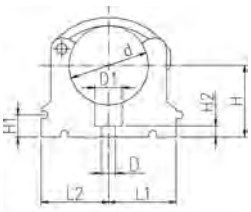
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d (mm)	D (mm)	D1 (mm)	Code	Weight (kg)	L (mm)	closest inch (inch)
315	450	335	**733 960 187**	0.225	35	12
355	500	370	**733 963 188**	0.269	35	14
400	560	420	**733 963 189**	0.269	35	16
450	630	470	**733 963 190**	0.269	35	18









KLIP-IT pipe clip type 061 PP metric

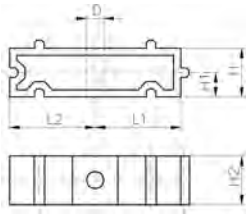
Model:

- Material: clip and safety clip PP black, UV resistant
- d16 - d63: height designed for ball valve type 546 and 543
- **Minimum order quantity: standard packagings SP**

	d (mm)	d (inch)	Code	SP	Weight (kg)
*	10		**167 061 003**	10	0.003
*	12		**167 061 004**	10	0.003
*	16		**167 061 035**	10	0.007
*	20		**167 061 036**	10	0.007
*	25		**167 061 037**	10	0.009
*	32		**167 061 038**	10	0.012
	40		**167 061 039**	10	0.027
	50		**167 061 040**	10	0.031
	63		**167 061 041**	10	0.052
	75	2 ½	**167 061 012**	10	0.057
	90	3	**167 061 013**	10	0.092
	110	4	**167 061 014**	10	0.117
	125		**167 061 015**	10	0.180
	140	5	**167 061 016**	10	0.224
	160		**167 061 017**	10	0.242

	d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	SC	closest inch (inch)
*	10	5	8	20	10	6	12	11	14	M4	⅛
*	12	5	8	21	10	6	12	11	14	M5	¼
*	16	6	11	27	10	6	16	14	17	M5	⅜
*	20	6	11	27	10	6	16	17	19	M5	½
*	25	6	11	30	10	6	16	19	22	M5	¾
*	32	6	11	36	10	6	16	24	27	M5	1
	40	7	14	44	10	7	22	34	34	M6	1 ¼
	50	7	14	51	10	7	22	37	37	M6	1 ½
	63	9	17	64	10	10	25	45	45	M8	2
	75	9	17	58	10	10	25	52	52	M8	2 ½
	90	9	17	65	10	10	28	65	65	M8	3
	110	9	17	75	10	10	28	79	79	M8	4
	125	9	17	90	10	10	32	88	88	M8	
	140	9	17	110	10	10	32	98	98	M8	5
	160	9	17	108	10	10	32	109	109	M8	6





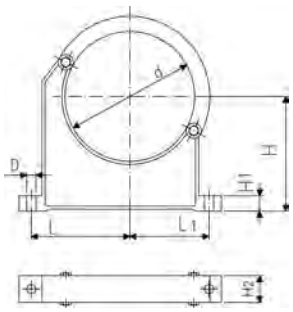
KLIP-IT spacer type 061 PP

Model:

- For pipe clips type 061/061H, PP black, UV resistant
- **Minimum order quantity: standard packaging SP**

d (mm)	Inch (inch)	Code	SP	Weight (kg)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC
10 - 12	⅛ - ¼	**167 061 153**	10	0.003	5	11	14	20	10	12	M4
16	⅜	**167 061 155**	10	0.005	6	14	17	20	10	16	M5
20	½	**167 061 156**	10	0.005	6	17	19	20	10	16	M5
25	¾	**167 061 157**	10	0.007	6	19	22	20	10	16	M5
32	1	**167 061 158**	10	0.006	6	24	27	20	10	16	M5
40	1 ¼	**167 061 159**	1	0.015	7	34	34	20	10	22	M6
50	1 ½	**167 061 160**	10	0.017	7	37	37	20	10	22	M6
63	2	**167 061 161**	10	0.020	9	45	45	20	10	25	M8
75	2 ½	**167 061 162**	10	0.027	9	52	52	20	10	25	M8
90	3	**167 061 163**	10	0.039	9	65	65	20	10	28	M8
110	4	**167 061 164**	10	0.048	9	79	79	20	10	28	M8
125	4 ½	**167 061 165**	10	0.059	9	88	88	20	10	32	M8
140	5	**167 061 166**	10	0.065	9	98	98	20	10	32	M8
160	6	**167 061 167**	10	0.071	9	109	109	20	10	32	M8





Pipe clip type 060 PP metric

Model:

- Material: clip and safety clip PP black, UV resistant
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Accidental opening of the safety clip is not possible
- Clip and safety clip are not assembled in the packaging.
- Pipes with flanges can be installed directly

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC	closest inch (inch)
90	**167 060 038**	10	0.144	9	89	71	105	15	33	M 8	3
110	**167 060 039**	10	0.158	9	94	80	115	15	33	M 8	4
125	**167 060 040**	10	0.249	11	116	91	130	20	35	M10	
140	**167 060 041**	10	0.260	11	121	99	130	20	35	M10	5
160	**167 060 042**	10	0.296	11	131	107	148	20	35	M10	6
180	**167 060 043**	10	0.327	11	143	115	163	20	35	M10	7
200	**167 060 019**	5	0.539	13	152	120	175	25	39	M12	8
225	**167 060 020**	5	0.178	13	164	132	175	25	39	M12	8
250	**167 060 021**	5	0.657	13	183	143	200	25	39	M12	9
280	**167 060 022**	5	0.212	13	197	156	200	25	39	M12	10
315	**167 060 023**	5	0.805	13	219	171	225	25	39	M12	12
355	**167 060 024**	5	1.251	17	275	209	258	30	50	M16	14
400	**167 060 025**	4	1.031	17	300	228	288	30	50	M16	16



Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the materialof PP, PE, PVDF and PB
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

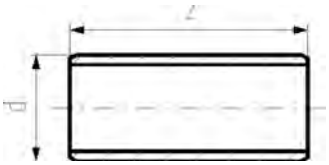
Size	Code	Weight (kg)
1 liter	**799 298 023**	0.872



Marker

Type	Code	Weight (kg)
silver	**799 350 364**	0.010





COOL-FIT 4.0 Barrel nipple

Model:

- PE100, SDR11/17, metric
- For the shortest possible connection between fittings
- For media temperatures between 0°C up to 60°C
- COOl-FIT 4.0 Adhesive ring needed for joining

d (mm)	SDR	PN	Code	Weight (kg)	z (mm)	closest inch (inch)
32	11	16	**738 910 408**	0.020	72	1
40	11	16	**738 910 409**	0.034	80	1 ¼
50	11	16	**738 910 410**	0.059	88	1 ½
63	11	16	**738 910 411**	0.101	96	2
75	11	16	**738 910 412**	0.162	110	2 ½
90	11	16	**738 910 413**	0.264	124	3
110	11	16	**738 910 414**	0.454	144	4
140	11	16	**738 910 416**	0.855	168	5
160	17	10	**738 910 417**	0.798	180	6
225	17	10	**738 910 420**	1.885	220	8



COOL-FIT 4.0 adhesive ring

Model:

- Double sided, for sealing connections of fittings with barrel nipple

d (mm)	D (mm)	Code	Weight (kg)
32	90	**738 010 013**	0.002
40, 50	110	**738 010 014**	0.003
63	125	**738 010 015**	0.003
75	140	**738 010 016**	0.003
90	160	**738 010 017**	0.005
110	180	**738 010 018**	0.005
160	250	**738 010 021**	0.009
225	315	**738 010 023**	0.027



Self regulating heating cable

Model:

- for pipe freeze protection
- cut to length on site
- suitable for in-pipe applications (inside the medium)
- zero maintenance after installation and commissioning
- no risk of overheating due to self-regulating technology
- Cables featuring self-regulating technology. The heat output automatically adjusts depending on the local temperature at every point along ist length. It never overheats even when overlapping

L (m)	Code	Weight (kg)
200	**790 738 001**	14.400
62	**790 738 003**	4.460
40	**790 738 005**	2.280
20	**790 738 007**	1.440



Surface sensing programmable thermostat with alarm relay

- The surface sensing thermostat is designed to provide user friendly measurement and control for heating cables. The thermostat has a 25 A control relay (that can be arranged to be volt free) and a 2 A volt free SPDT alarm relay. Parameter and eventual alarm conditions are shown on the digital display and settings can be programmed easily, even without power supply. The thermostat is supplied with a Pt100 sensor. This sensor has a 3 m long silicone extension cable giving freedom to locate the electronics remote from the sensor. Two M25 entries allow for the power cable and heating cable to be connected directly into the unit.

Code
790 738 030



Cable gland

- For the leading the heating inside and outside the COOL-FIT 4.0 piping via threaded fitting

Model:

- Material: brass
- threaded connection: 3/4 " male thread R

R (inch)	Code	Weight (kg)
¾	**790 738 020**	0.146



Cold lead connection and end seal kit

- For heating cables for COOL-FIT

Model:

- Heat-shrink technique

Inclusive:

- Crimps
- Cold lead shrinkable sleeves
- End seal shrinkable sleeves
- Mastic

Code	Weight (kg)
790 738 010	0.045

COOL-FIT 4.0 Tools



COOL-FIT 2.0/4.0 Foam removal and peeling tool

Model:

- Tool for foam removal and peeling of COOL-FIT 2.0 and 4.0 pipes

d (mm)	Code	Weight (kg)
32-90	**799 738 001**	10.500
110-225	**799 738 003**	16.500
250-450	**799 738 004**	71.000



COOL-FIT 2.0/4.0 Powered foam removal and peeling tool

Model:

- Tool for foam removal and peeling of COOL-FIT 2.0 and 4.0 pipes
- For usage in combination with drill drivers (not included)

d (mm)	Code	Weight (kg)
32-63	**799 738 201**	10.500



Peeling tool RTC

- **Rotary peeler for reliable pipe preparation prior to electrofusion**
- Applicable on pipe ends and spigot ends of fittings
- **Scope of delivery 315**: 1 Scraper arm, 1 Self-centering chuck base, 1 Aluminium transport case
- **Scope of delivery 710**: 1 Scraper arm, 1 Self-centering chuck base, 2 Aluminium transport case

d-d (mm)	Code	Weight (kg)	Description
75 - 315	**799 150 423**	9.616	max. working-range 185 mm
355 - 710	**799 300 757**	31.400	max. working-range 530 mm

MSA 2.1 Automatic Electrofusion Unit with protocols retrieval



The MSA 2.1 automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology and furthermore provides fusion documentation in PDF. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion. It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The unit has 1000 protocols permanently stored in the internal memory. The user can copy the fusion reports in an USB stick to print them out in PDF format.
Scope of delivery includes: transport box, angle adapters (4.0 mm and 4.7 mm), operating instructions, START/STOP badge and USB memory stick with PC applications.

Technical Data:

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion voltage: 8-42 V (48 V)
- Fusion data input mode: bar code, manual
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 4 m
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Independent from languages

Type	Code	Weight (kg)
Barcode scanner, transport case, mini Welding Book	**790 156 003**	20.000
Barcode scanner, transport case, mini Welding Book, Swiss plug	**790 156 006**	20.000
Barcode scanner, transport case, mini Welding Book, 8m fusion cable	**790 156 010**	21.000



Long adapters

- Adapters for Electrofusion units with 4 mm connectors.
- Longer version, suitable for all COOL-FIT 4.0 dimensions.

Type	Code	Weight (kg)	Description
4,0 mm	**790 128 035**	0.058	Angle adapters pair, black



Double clamp with universal link

- Recommended for the installation of fittings COOL-FIT and ELGEF Plus
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

d (mm)	d1 (mm)	Code	Weight (kg)	Description	L (mm)	B (mm)	H (mm)
40	200	**799 301 490**	4.200	Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (600x380x250)	960	290	230
160	630	**799 301 496**	14.100	Scope of delivery: 2 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (780x780x580)	1300	670	550



Quadruple clamp with universal link

- Recommended for the installation of fittings COOL-FIT and ELGEF Plus
- The clamping allows installation without tension and avoids movement during fusion and cooling time
- The centrally located adjustable universal link allows installation of electrofusion couplers, elbows and reducers
- Universal use; works above, below and alongside the joint
- Adaptor for use with Tee-pieces available (see accessories)

d (mm)	d1 (mm)	Code	Weight (kg)	Description	L (mm)	B (mm)	H (mm)
40	200	**799 301 489**	8.300	Scope of delivery: 4 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (600x380x250)	960	290	230
160	630	**799 301 495**	23.300	Scope of delivery: 4 x V-block, 2 x Straight bar, 1 x Universal link, Transport bag (780x780x580)	1300	670	550



Tee adaptor

- Suitable for clamping tool (799301489 - 495)

d (mm)	d1 (mm)	Code	Weight (kg)	Description	L (mm)	B (mm)	H (mm)
40	200	**799 301 491**	0.610	Tee adaptor	600	50	40
160	630	**799 301 497**	3.500	Tee adaptor	1070	75	60



V-block

- Suitable for clamping tool (799301489 - 495)

d (mm)	d1 (mm)	Code	Weight (kg)	Description	L (mm)	B (mm)	H (mm)
40	200	**799 301 492**	1.000	V-block complete	290	230	65
160	630	**799 301 498**	3.200	V-block complete	660	430	90



Bar extension

- Suitable for clamping tool (799301489 - 495)

d (mm)	d1 (mm)	Code	Weight (kg)	Description	L (mm)	B (mm)	H (mm)
160	630	**799 301 499**	1.000	Bar extension	1000	40	40

COOL-FIT ABS



Technical data

Materials
Media pipe: ABS
Insulation: PUR, closed cell, woamed with CO_2 or cyclopentane
Outer jacket: Pipe = PE100, Fitting = PUR or PE100

Dimensions range
d25 mm – d315 mm

Jointing technology
Solvent cementing, patented inside nipple

Operating pressure
d25 mm – d225 mm: 10 bar, SDR 17.6
d250 mm – d315 mm: 6 bar, SDR 26

Operating temperature
–40°C to 60°C

Your benefits

- **Easy installation – reduced time on site**
- **Lighweight**
- **No corrosion**
- **Low cost for installation equipment**

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Pressure-temperature diagram for ABS

The following two pressure-temperature diagrams for ABS pipe and fittings are valid for a service life of 25 years.

The design factor of 2.1 for British systems and 1.8 for metric systems recommended by GF Piping Systems has been incorporated.

The diagram can be used for water or media resembling water, in other words, media that have no reduction factor for their chemical resistance.

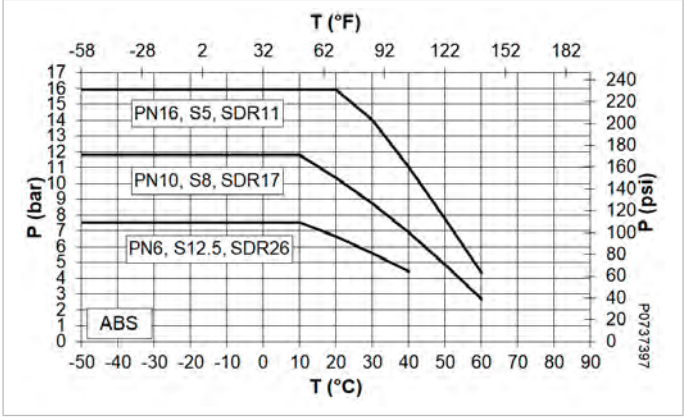
Please take into account the pressure-temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared to pipe and fittings. More information is available in the Planning Fundamentals of the relevant types of valves and special fittings.

The influence of the anti-freeze compound has to be taken into account when calculating the allowable operating pressure. Contact your authorized GF Piping Systems representative for additional information.

According to the 10 °C curve in the long-term behavior for ABS, the following information applies to the temperature range from -50 °C to +10 °C:

System	PN6	PN10	PN16
Permissible pressure	7.5 bar	11.8 bar	Max. 16 bar

Metric systems

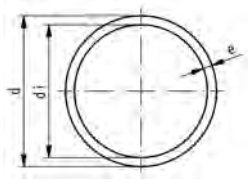


P Permissible pressure (bar, psi)
T Temperature (°C, °F)

COOL-FIT ABS pipes

Metric pipes





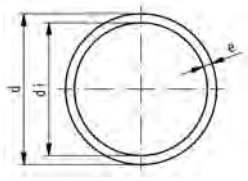
Pipe ABS Metric, nominal pressure 240 psi (PN16) at 68F (20C)

Model:

- Colour: RAL 7001, gravel grey
- Length: 5 m
- Minimum order quantity: 1 length
- PN6 (90PSI) / PN10 (150PSI) / PN16 (240PSI) at 20°C (68°F)

d (mm)	PN (bar)	Code	Weight (kg/m)	e (inch)	di (inch)	closest inch (inch)	Copper size (inch)
16	16	**169 017 080**	0.095	0.071	0.49	⅜	½
20	16	**169 017 081**	0.152	0.091	0.61	½	⅝
25	16	**169 017 082**	0.195	0.091	0.80	¾	⅞
32	16	**700 262 397**	0.820	0.114	1.03	1	1 ⅛
40	16	**700 262 398**	1.210	0.146	1.28	1 ¼	1 ⅜





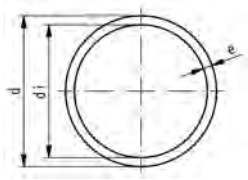
Pipe ABS metric
Nominal pressure PN10 (at 20°C)

Model:

- Colour: RAL 7001, gravel grey
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d (mm)	PN (bar)	Code	SP	Weight (kg/m)	e (mm)	di (mm)	Copper size (inch)	closest inch (inch)
32	10	**169 017 083**	25	0.213	1.9	28.2	1 ⅛	1
40	10	**169 017 084**	25	0.337	2.4	35.2	1 ⅜	1 ¼
50	10	**169 017 085**	25	0.526	3.0	44.0	1 ⅝	1 ½
63	10	**169 017 086**	15	0.839	3.8	55.4	2 ⅛	2
75	10	**169 017 087**	10	1.183	4.5	66.0	2 ⅝	2 ½
90	10	**169 017 088**	5	1.704	5.4	79.2	3 ⅛	3
110	10	**169 017 089**	5	2.546	6.6	96.8	4 ⅛	4
140	10	**169 017 091**	0	4.489	8.3	123.4		5
160	10	**169 017 092**	0	5.856	9.5	141.0	6	6
200	10	**169 017 093**	5	9.133	12.3	175.4		8
225	10	**169 017 094**	5	11.605	13.9	197.2		9





Pipe ABS metric
Nominal pressure PN6 (at 20°C)

Model:

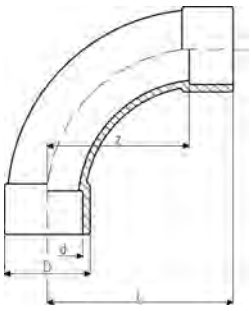
- Colour: RAL 7001, gravel grey
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d (mm)	PN (bar)	Code	SP	Weight (kg/m)	di (mm)	e (mm)	closest inch (inch)
250	6	**169 017 095**	5	8.299	230.8	9.6	10
280	6	**169 017 096**	5	10.346	258.6	10.7	11
315	6	**169 017 097**	5	13.173	290.8	12.1	12

COOL-FIT ABS fittings

Pipe fittings for solvent cement jointing





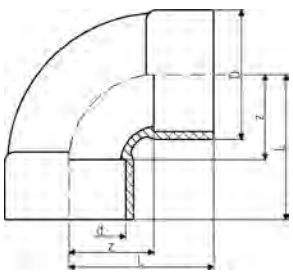
Bend 90° ABS metric

- Radius = 2 d

* Available as long as our stock will last

	d (mm)	PN (bar)	Code	SP	Weight (lb)	D (mm)	L (mm)	z (mm)	closest inch (inch)
	20	16	**729 000 106**	10	0.060	27	58	40	½
	25	16	**729 000 107**	10	0.086	35	69	50	¾
	32	10	**729 000 108**	10	0.123	38	86	64	1
	40	10	**729 000 109**	30	0.218	54	109	80	1 ¼
	50	10	**729 000 110**	10	0.505	61	131	100	1 ½
	63	10	**729 000 111**	4	0.862	76	164	126	2
	75	10	**729 000 112**	5	1.312	90	194	150	2 ½
	90	10	**729 000 113**	5	2.302	113	231	180	3
	110	10	**729 000 114**	5	4.632	137	281	220	4
	140	10	**729 000 116**	1	8.810	168	356	280	5
*	160	10	**729 000 117**	1	12.346	191	406	320	6



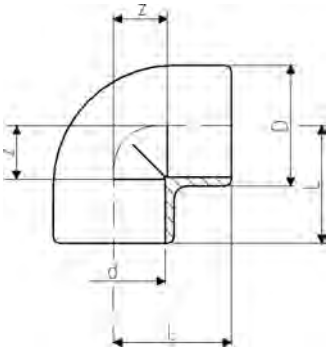


Bend 90° short pattern ABS metric

- >d225 - maximum operating temperature: +40°C

d (mm)	PN (bar)	Code	SP	Weight (lb)	closest inch (inch)	z (mm)	D (mm)	L (mm)
225	10	**729 010 120**	1	12.657	9	168	256	287
280	6	**729 010 122**	1	39.683	11	210	318	357
315	6	**729 010 123**	1	46.297	12	237	356	401



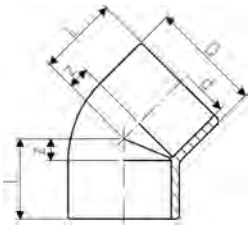


Elbow 90° ABS metric

- >d225 - maximum operating temperature: +40°C

d (mm)	PN (bar)	Code	SP	Weight (lb)	D (mm)	L (mm)	z (mm)	closest inch (inch)
20	16	**729 100 106**	10	0.022	26	27	11	½
25	16	**729 100 107**	10	0.040	31	33	14	¾
32	10	**729 100 108**	10	0.073	40	39	17	1
40	10	**729 100 109**	10	0.121	49	47	21	1 ¼
50	10	**729 100 110**	10	0.216	61	57	26	1 ½
63	10	**729 100 111**	10	0.410	76	72	33	2
75	10	**729 100 112**	5	0.661	90	84	40	2 ½
90	10	**729 100 113**	5	0.952	110	97	46	3
110	10	**729 100 114**	3	1.695	136	116	55	4
140	10	**729 100 116**	4	3.342	162	146	70	5
160	10	**729 100 117**	1	4.799	185	166	80	6
200	10	**729 100 119**	1	7.434	225	207	101	8
250	6	**729 100 121**	1	18.118	282	263	131	9





Elbow 45° ABS metric

- >d225 - maximum operating temperature: +40°C

d (mm)	PN (bar)	Code	SP	Weight (lb)	z (mm)	D (mm)	L (mm)	closest inch (inch)
20	16	**729 150 106**	10	0.020	5	25	21	½
25	16	**729 150 107**	10	0.029	6	31	25	¾
32	10	**729 150 108**	10	0.057	8	40	30	1
40	10	**729 150 109**	10	0.097	10	49	36	1 ¼
50	10	**729 150 110**	5	0.174	12	61	43	1 ½
63	10	**729 150 111**	10	0.315	14	76	52	2
75	10	**729 150 112**	5	0.496	17	89	61	2 ½
90	10	**729 150 113**	4	0.800	20	107	71	3
110	10	**729 150 114**	10	1.250	28	131	89	4
140	10	**729 150 116**	1	2.590	32	162	108	5
160	10	**729 150 117**	4	3.777	36	185	122	6
200	10	**729 150 119**	1	5.613	43	225	149	8
225	10	**729 150 120**	1	6.971	49	250	168	8
250	6	**729 150 121**	1	13.534	60	282	192	9
280	6	**729 150 122**	1	23.149	66	318	213	10
315	6	**729 150 123**	1	32.187	74	356	239	12



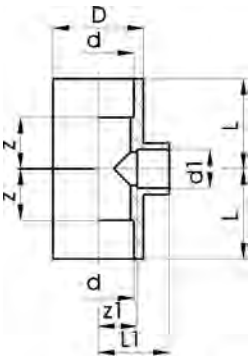


Tee 90° ABS metric

- >d225 - maximum operating temperature: +40°C

d (mm)	PN (bar)	Code	SP	Weight (lb)	z (mm)	D (mm)	L (mm)	closest inch (inch)
20	16	**729 200 106**	10	0.033	11	25	27	½
25	16	**729 200 107**	10	0.055	14	31	33	¾
32	10	**729 200 108**	10	0.093	17	40	39	1
40	10	**729 200 109**	10	0.172	21	49	47	1 ¼
50	10	**729 200 110**	5	0.295	26	61	57	1 ½
63	10	**729 200 111**	5	0.562	34	76	72	2
75	10	**729 200 112**	6	0.891	40	90	84	2 ½
90	10	**729 200 113**	4	1.464	47	107	98	3
110	10	**729 200 114**	6	2.227	55	133	116	4
140	10	**729 200 116**	1	5.666	71	169	147	5
160	10	**729 200 117**	1	8.272	81	193	167	6
200	10	**729 200 119**	1	9.802	101	225	207	8
225	10	**729 200 120**	1	15.124	114	256	233	8
250	6	**729 200 121**	1	24.668	132	282	263	9
280	6	**729 200 122**	1	26.431	152	318	298	10
315	6	**729 200 123**	1	44.092	168	356	332	12



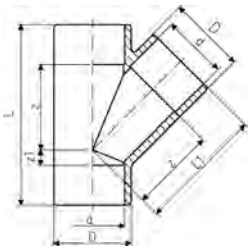


Tee 90° reducing ABS metric

d (mm)	d1 (mm)	PN (bar)	Code	SP	Weight (lb)	z1 (mm)	z (mm)	L (mm)	L1 (mm)	D (mm)	Closest inch run-branch-run (inch)
25	20	16	**729 200 134**	10	0.066	14	14	33	30	33	¾ - ½ - ¾
32	25	10	**729 200 138**	10	0.108	17	17	39	36	41	1 - ¾ - 1
40	25	10	**729 200 151**	10	0.183	23	23	49	42	50	1 ¼ - ¾ - 1 ¼
40	32	10	**729 200 147**	10	0.187	23	23	49	45	50	1 ¼ - 1 - 1 ¼
50	25	10	**729 200 010**	5	0.304	28	28	59	47	62	1 ½ - ¾ - 1 ½
50	32	10	**729 200 164**	5	0.311	28	28	59	50	62	1 ½ - 1 - 1 ½
63	25	10	**729 200 011**	10	0.542	34	34	73	53	77	2 - ¾ - 2
63	32	10	**729 200 178**	5	0.564	34	35	73	56	77	2 - 1 - 2
63	50	10	**729 200 170**	5	0.595	34	35	73	65	77	2 - 1 ½ - 2
75	40	10	**729 200 182**	9	0.875	41	40	84	66	92	2 ½ - 1 ¼ - 2 ½
90	32	10	**729 200 143**	6	1.479	55	46	97	77	110	3 - 1 - 3
90	63	10	**729 200 146**	5	1.576	55	46	97	93	110	3 - 2 - 3
110	32	10	**729 200 144**	3	2.445	67	56	117	89	133	4 - 1 - 4
110	50	10	**729 200 136**	3	2.520	67	56	117	98	133	4 - 1 ½ - 4
140	50	10	**729 200 148**	1	5.406	82	72	148	113	172	5 - 1 ½ - 5
140	75	10	**729 200 149**	1	5.463	78	72	148	122	172	5 - 2 ½ - 5
160	110	10	**729 200 152**	1	9.491	91	81	167	142	192	6 - 3 - 6
160	90	10	**729 200 158**	1	7.564	91	81	167	142	192	6 - 3 - 6
200	110	10	**729 200 153**	1	14.745	131	106	213	192	232	7 - 4 - 7
225	110	10	**729 200 156**	1	17.849	143	119	239	204	257	8 - 4 - 8
225	160	10	**729 200 157**	1	16.502	119	119	239	205	257	8 - 6 - 8

Tee 45° ABS metric

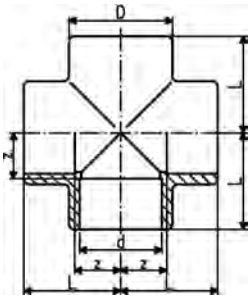




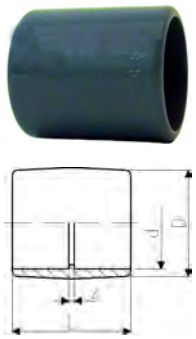
d (mm)	PN (bar)	Code	SP	Weight (lb)	D (mm)	L (mm)	L1 (mm)	closest inch (inch)	z (mm)	z1 (mm)
20	10	**729 250 106**	10	0.060	28	68	46	½	30	6
25	10	**729 250 107**	10	0.095	33	83	55	¾	36	9
32	10	**729 250 108**	10	0.161	41	99	67	1	45	10
40	10	**729 250 109**	10	0.271	50	118	82	1 ¼	56	10
50	10	**729 250 110**	8	0.445	60	140	97	1 ½	66	12
63	10	**729 250 111**	5	0.736	74	175	123	2	85	14
75	6	**729 250 112**	5	1.334	91	207	145	2 ½	101	18
90	6	**729 250 113**	1	2.119	107	245	173	3	122	20
110	6	**729 250 114**	3	4.204	134	298	210	4	149	27

Cross ABS metric





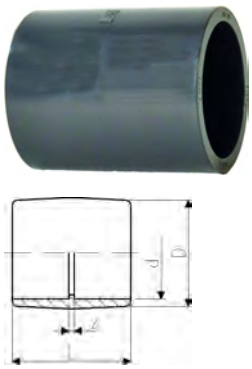
d (mm)	PN (bar)	Code	SP	Weight (lb)	closest inch (inch)	z (mm)	D (mm)	L (mm)
32	10	**729 300 108**	10	0.154	1	17	43	39
63	10	**729 300 111**	5	0.791	2	34	79	72
90	10	**729 300 113**	5	2.066	3	48	106	97



Socket ABS metric

- >d225 - maximum operating temperature: +40°C

d (mm)	PN (bar)	Code	SP	Weight (lb)	D (mm)	L (mm)	z (mm)	closest inch (inch)
20	16	**729 910 106**	10	0.015	26	35	3	½
25	16	**729 910 107**	10	0.026	32	41	3	¾
32	10	**729 910 108**	10	0.044	40	47	3	1
40	10	**729 910 109**	10	0.077	49	55	3	1 ¼
50	10	**729 910 110**	10	0.132	61	65	3	1 ½
63	10	**729 910 111**	10	0.243	76	79	3	2
75	10	**729 910 112**	10	0.320	87	92	4	2 ½
90	10	**729 910 113**	10	0.531	104	107	5	3
110	10	**729 910 114**	5	1.248	131	132	5	4
140	10	**729 910 116**	2	1.792	162	159	7	5
160	10	**729 910 117**	2	2.593	183	180	8	6
200	10	**729 910 119**	1	3.331	221	221	9	8
225	10	**729 910 120**	1	5.593	253	248	10	8
250	6	**729 910 121**	1	8.946	284	284	16	9
280	6	**729 910 122**	1	13.323	321	302	16	10
315	6	**729 910 123**	1	17.857	356	348	16	12



Adaptor socket ABS metric/Inch BS

Model:

- With BS Inch and metric solvent cement sockets

d (inch)	d (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
½	20	10	**729 913 106**	1	0.010	27	38	5
¾	25	10	**729 913 107**	1	0.016	33	45	5
1	32	10	**729 913 108**	1	0.025	41	51	5
1 ¼	40	10	**729 913 109**	1	0.045	51	60	5
1 ½	50	10	**729 913 110**	1	0.070	59	65	4
2	63	10	**729 913 111**	1	0.130	75	79	5
2 ½	75	10	**729 910 112**	10	0.145	87	92	4
3	90	10	**729 913 113**	2	0.365	104	108	6
4	110	10	**729 913 115**	1	0.630	134	135	7



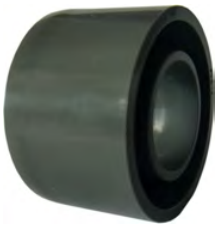
Barrel nipple ABS metric

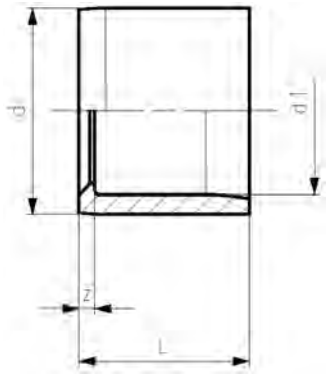
Model:

- For the shortest possible distance between fittings
- Overall length L = 2 x socket length
- With solvent cement spigots on both sides

d (mm)	PN (bar)	Code	Weight (lb)	L (mm)	closest inch (inch)
20	16	**729 900 906**	0.018	32	½
25	16	**729 900 907**	0.018	38	¾
32	10	**729 900 908**	0.015	44	1
40	10	**729 900 909**	0.035	52	1 ¼
50	10	**729 900 910**	0.071	62	1 ½
63	10	**729 900 911**	0.130	76	2
75	10	**729 900 912**	0.209	88	2 ½
90	10	**729 900 913**	0.355	102	3
110	10	**729 900 914**	0.622	122	4







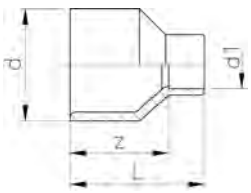
Reducing bush ABS metric

Model:

- With solvent cement spigot and socket metric

d (mm)	d1 (mm)	PN (bar)	Code	SP	Weight (lb)	z (mm)	L (mm)
25	20	16	**729 900 337**	10	0.011	3	19
32	20	10	**729 900 342**	10	0.024	6	22
32	25	10	**729 900 341**	10	0.018	4	22
40	20	10	**729 900 348**	10	0.035	10	26
40	25	10	**729 900 347**	10	0.035	7	26
40	32	10	**729 900 346**	10	0.026	4	26
50	20	10	**729 900 355**	10	0.057	15	31
50	25	10	**729 900 354**	10	0.024	12	31
50	32	10	**729 900 353**	10	0.077	9	31
50	40	10	**729 900 352**	10	0.049	5	31
63	32	10	**729 900 360**	10	0.132	16	38
63	40	10	**729 900 359**	10	0.112	12	38
63	50	10	**729 900 358**	10	0.095	7	36
75	50	10	**729 900 365**	10	0.181	13	44
75	63	10	**729 900 364**	10	0.134	7	44
90	50	10	**729 900 372**	10	0.315	20	51
90	63	10	**729 900 371**	10	0.284	14	51
90	75	10	**729 900 370**	10	0.220	7	51
110	63	10	**729 900 378**	5	0.509	24	61
110	90	10	**729 900 376**	5	0.432	10	61
125	110	10	**700 244 660**	10	0.785	8	69
140	110	10	**729 900 385**	5	1.012	15	76
160	110	10	**729 900 390**	6	1.459	25	86
160	140	10	**729 900 388**	5	0.904	10	86
200	160	10	**729 900 392**	1	1.808	20	106
225	160	10	**729 900 396**	2	3.640	33	119
225	200	10	**729 900 181**	0	2.244	13	119
250	225	6	**729 900 303**	4	2.853	12	131
280	250	6	**729 900 306**	1	5.512	15	146
315	280	6	**729 900 312**	1	6.288	17	164





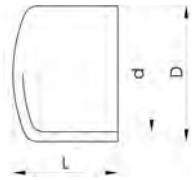
Reducing bush long ABS metric

Model:

- With solvent cement spigot and socket metric

d (mm)	d1 (mm)	PN (bar)	Code	SP	Weight (lb)	z (mm)	L (mm)	Closest inch (inch)
32	20	10	**729 910 342**	10	0.031	30	46	1 - ½
40	25	10	**729 910 347**	10	0.057	36	55	1 ¼ - ¾
50	25	10	**729 910 354**	10	0.084	44	63	1 ⅓ - ¾
63	32	10	**729 910 360**	5	0.170	54	76	2 - 1
75	40	10	**729 910 366**	5	0.254	62	88	2 ½ - 1 ¼
90	63	10	**729 910 371**	5	0.474	74	112	3 - 2

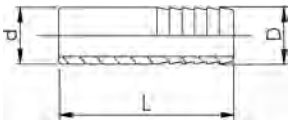




Cap ABS metric

d (mm)	PN (bar)	Code	SP	Weight (lb)	closest inch (inch)	D (mm)	L (mm)
20	16	**729 960 106**	10	0.015	½	30	25
25	16	**729 960 107**	10	0.029	¾	37	30
32	10	**729 960 108**	10	0.042	1	44	34
40	10	**729 960 109**	10	0.075	1 ¼	55	41
50	10	**729 960 110**	10	0.101	1 ½	64	44
63	10	**729 960 111**	5	0.194	2	80	54
75	10	**729 960 112**	5	0.254	2 ½	87	65
90	10	**729 960 113**	5	0.481	3	112	77
110	10	**729 960 114**	5	1.100	4	145	101
140	10	**729 960 116**	10	1.940	5	163	114
160	10	**729 960 117**	2	2.513	6	188	130





Hose connector ABS metric

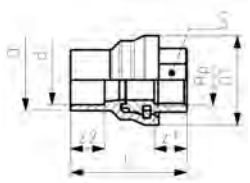
Model:

- With solvent cement spigot metric and parallel hose connection

d (mm)	PN (bar)	Code	SP	Weight (lb)	closest inch (inch)	D (mm)	L (mm)
20	10	**729 960 406**	10	0.026	½	20	73
25	10	**729 960 407**	10	0.033	¾	25	79
32	10	**729 960 408**	10	0.060	1	30	89
32	10	**729 960 508**	10	0.060	1	32	89
40	10	**729 960 409**	10	0.057	1 ¼	40	100

Adaptor fittings





Adaptor fitting ABS/stainless steel Rp

Model:

- Adaptor fitting equally suitable as socket and spigot
- Stainless steel WN 1.4404 (316L) with parallel female thread Rp
- Gasket: O-ring EPDM

d (mm)	D (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	D1 (mm)	L (mm)	z1 (mm)	z2 (mm)	S (mm)
20	25	½	10	**729 940 106**	10	0.094	40	55	17	17	25
25	32	¾	10	**729 940 107**	5	0.164	50	65	19	19	30
32	40	1	10	**729 940 108**	5	0.251	59	77	22	23	36





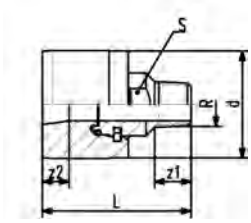
Adaptor fitting ABS/stainless steel R

Model:

- Adaptor fitting equally suitable as socket and spigot
- Stainless steel with taper male thread R
- Gasket: O-ring EPDM

d (mm)	D (mm)	R (inch)	PN (bar)	Code	SP	Weight (kg)	D1 (mm)	L (mm)	z1 (mm)	z2 (mm)	S (mm)
20	25	½	10	**729 940 606**	10	0.119	40	70	17	17	25
25	32	¾	10	**729 940 607**	5	0.209	50	83	19	19	30
32	40	1	10	**729 940 608**	5	0.319	59	96	22	23	36





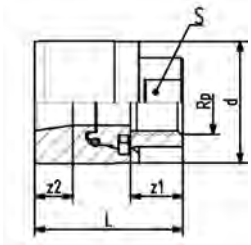
Adaptor fitting ABS/stainless steel R

Model:

- Stainless steel WN 1.4404 (316L) with taper male thread R
- Gasket: O-ring EPDM

d (mm)	R (inch)	PN (bar)	Code	SP	Weight (kg)	L (mm)	z1 (mm)	z2 (mm)	S (mm)
40	½	10	**729 940 631**	10	0.476	63.2	17.0	12.4	25
50	½	10	**729 940 632**	10	0.535	69.2	17.0	12.5	25
50	¾	10	**729 940 633**	10	0.539	72.9	19.0	13.0	30
63	½	10	**729 940 634**	10	0.861	81.2	17.0	7.1	25
63	¾	10	**729 940 635**	10	0.869	84.9	19.0	13.0	30
63	1	10	**729 940 636**	10	0.878	89.7	22.0	18.9	36





Adaptor fitting ABS/stainless steel Rp

Model:

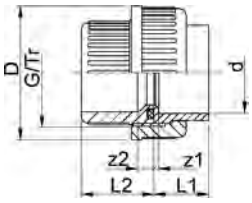
- Stainless steel WN 1.4404 (316L) with parallel female thread Rp
- Gasket: O-ring EPDM

d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	L (mm)	z1 (mm)	z2 (mm)	S (mm)
40	½	10	**729 940 131**	10	0.356	48.2	17.0	12.4	25
50	½	10	**729 940 132**	10	0.443	54.2	17.0	12.5	25
50	¾	10	**729 940 133**	10	0.458	54.9	18.5	13.0	30
63	½	10	**729 940 134**	10	0.721	66.2	17.0	7.1	25
63	¾	10	**729 940 135**	10	0.732	66.9	18.5	13.0	30
63	1	10	**729 940 136**	10	0.746	70.7	21.5	18.9	36

COOL-FIT ABS unions

Unions





Union ABS metric

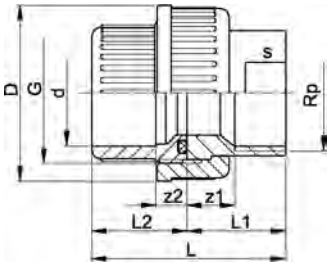
Model:

- Union End: Solvent cement socket metric
- Union bush: Solvent cement socket metric
- Gasket: O-ring EPDM code no. 748 410 006-016

d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	L1 (mm)	D (mm)	L2 (mm)	z1 (mm)	z2 (mm)	closest inch (inch)	G/Tr (inch)
20		10	**729 510 106**	10	0.035	21	43	26	4	10	½	1
25		10	**729 510 107**	10	0.044	24	53	29	5	10	¾	1 1/4
32		10	**729 510 108**	10	0.064	27	60	33	5	10	1	1 1/2
40		10	**729 510 109**	10	0.130	31	74	39	3	12	1 ¼	2
50		10	**729 510 110**	5	0.154	33	83	46	3	14	1 ½	2 1/4
63		10	**729 510 111**	5	0.258	40	103	58	3	18	2	2 3/4
75	2 ½	10	**729 510 112**	2	0.469	47	135	62	3	18	2 ½	Tr 108x5
90		10	**729 510 313**	2	0.701	56	158	69	5	18	3	Tr 128x5
110		10	**729 510 114**	1	1.069	66	158	72	5	11	4	Tr 154x5

Adaptor Unions





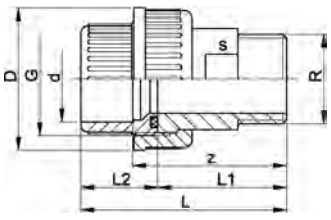
Adaptor union ABS/stainless steel metric Rp

Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Stainless Steel WN 1.4404 (316L), parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011

d (mm)	Rp (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)	s (mm)
20	½	10	**729 540 206**	10	0.096	11	10	43	50	24	26	1	24
25	¾	10	**729 540 207**	5	0.154	11	10	51	55	26	29	1 1/4	29
32	1	10	**729 540 208**	5	0.212	12	10	58	61	29	33	1 1/2	36
40	1 ¼	10	**729 540 209**	2	0.356	14	12	74	71	33	39	2	45
50	1 ½	10	**729 540 210**	2	0.443	15	14	83	79	34	46	2 1/4	54
63	2	10	**729 540 211**	2	0.721	15	18	100	95	39	58	2 3/4	63



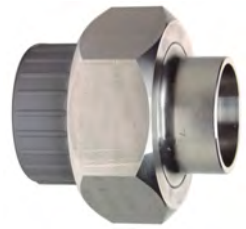


Adaptor union ABS/stainless steel metric R

Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Stainless Steel WN 1.4404 (316L), taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011

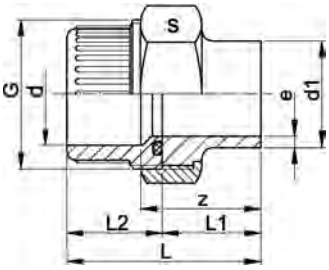
d (mm)	R (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)	s (mm)
20	½	10	**729 540 706**	10	0.106	44	43	60	34	26	1	24
25	¾	10	**729 540 707**	5	0.174	46	51	65	36	29	11/4	32
32	1	10	**729 540 708**	5	0.262	50	58	72	40	33	11/2	37
40	1 ¼	10	**729 540 709**	2	0.476	58	74	84	46	39	2	48
50	1 ½	10	**729 540 710**	2	0.535	62	83	93	48	46	21/4	54
63	2	10	**729 540 711**	2	0.861	73	100	111	55	58	23/4	69



Adaptor union ABS/stainless steel metric
Welding end

Model:

- Union End: Stainless Steel WN 1.4404 (316L) with welding end
- Union Bush: Solvent cement socket ABS metric
- Union Nut: Stainless Steel WN 1.4404 (316L)
- Gasket: O-ring EPDM code no. 748 410 006-011



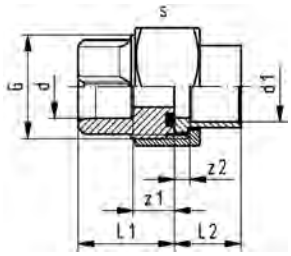
d1 (mm)	d (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	z (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	G (inch)	s (mm)
21	20	10	**729 545 506**	10	0.176	32	48	22	26	2.0	1	41
27	25	10	**729 545 507**	5	0.204	33	52	23	29	2.0	1 1/4	46
34	32	10	**729 545 508**	5	0.313	36	58	26	33	2.0	1 1/2	55
42	40	10	**729 545 509**	2	0.493	38	64	26	39	2.0	2	68
48	50	10	**729 545 510**	2	0.566	42	73	28	46	2.0	2 1/4	74
60	63	10	**729 545 511**	2	0.902	50	88	32	58	2.6	2 3/4	88



Adaptor union ABS/copper for soldering metric

Model:

- Union End: Copper
- Union Bush: Solvent cement socket ABS metric
- Union Nut: brass
- Gasket: O-ring EPDM code no. 748 410 006-011



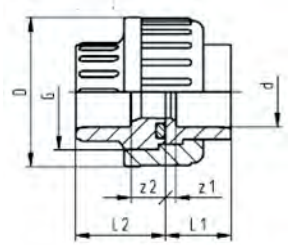
PN (bar)	d1 (mm)	d (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	G (inch)	s (mm)
10	22	20	**720 510 106**	10	0.140	26	19	9	3	1	40
10	28	25	**720 510 107**	5	0.269	29	28	9	6	1 1/4	50
10	35	32	**720 510 108**	5	0.198	33	27	10	5	1 1/2	52
10	42	40	**720 510 109**	2	0.350	39	35	12	6	2	66
10	54	50	**720 510 110**	2	0.438	46	46	14	3	2 1/4	72



Adaptor union ABS/brass metric Rp

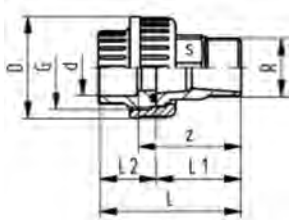
Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011



PN (bar)	Rp (inch)	d (mm)	Code	SP	Weight (kg)	z1 (mm)	s (mm)	L2 (mm)	L (mm)	G (inch)	z2 (mm)	D (mm)	L1 (mm)
10	½	20	**729 550 506**	10	0.084	7	25	26	48	1	10	43	22
10	¾	25	**729 550 507**	5	0.134	9	30	29	54	1 1/4	11	51	25
10	1	32	**729 550 508**	5	0.179	8	36	33	60	1 1/2	11	58	27
10	1 ¼	40	**729 550 509**	2	0.327	10	48	39	70	2	13	72	31
10	1 ½	50	**729 550 510**	2	0.452	14	55	46	81	2 1/4	21	83	35
10	2	63	**729 550 511**	2	0.674	14	65	58	98	2 3/4	21	100	40





Adaptor union ABS/brass metric R

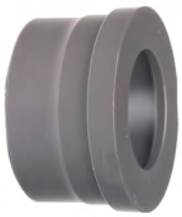
Model:

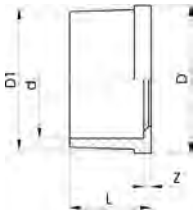
- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011

d (mm)	R (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	G (inch)	s (mm)
20	½	10	**729 550 906**	10	0.123	43	63	37	26	47	1	25
25	½	10	**729 550 957**	5	0.185	51	66	37	29	48	1 1/4	30
25	¾	10	**729 550 907**	5	0.175	51	71	42	29	52	1 1/4	30
25	1	10	**729 550 967**	5	0.293	51	75	46	29	57	1 1/4	30
32	½	10	**729 550 958**	5	0.283	58	70	37	33	48	1 1/2	36
32	¾	10	**729 550 968**	5	0.283	58	75	42	33	53	1 1/2	36
32	1	10	**729 550 908**	5	0.374	58	79	46	33	57	1 1/2	36
40	1 ¼	10	**729 550 909**	2	0.503	72	91	52	39	65	2	46
50	1 ½	10	**729 550 910**	2	0.640	83	102	56	46	71	2 1/4	55
63	2	10	**729 550 911**	2	1.019	100	125	67	58	87	2 3/4	65

COOL-FIT ABS union spare parts

Union spare parts





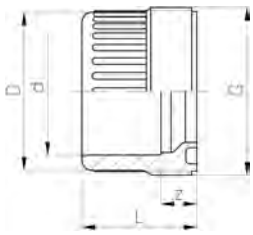
Union end ABS metric

Model:

- Solvent cement socket metric
- For union 729 510 106-114, 729 510 156-164

d (mm)	PN (bar)	Code	SP	Weight (lb)	z (mm)	L (mm)	D (mm)	D1 (mm)	closest inch (inch)
20	10	**729 800 106**	10	0.015	4	21	30	28	½
25	10	**729 800 107**	10	0.026	5	24	39	36	¾
32	10	**729 800 108**	10	0.035	5	27	44	41	1
40	10	**729 800 109**	10	0.093	3	31	57	53	1 ¼
50	10	**729 800 110**	10	0.099	3	34	63	59	1 ½
63	10	**729 800 111**	10	0.185	3	41	78	74	2
75	10	**729 800 162**	20	0.240	3	47	101	91	2 ½
90	10	**729 800 163**	12	0.392	5	56	121	108	3
110	10	**729 800 164**	10	0.650	5	66	146	131	4





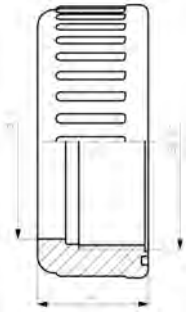
Union bush ABS metric

Model:

- Solvent cement socket metric
- For union 729 510 106-114
- Jointing face: with O-ring groove

d (mm)	PN (bar)	Code	SP	Weight (lb)	z (mm)	D (mm)	L (mm)	G/Tr (inch)	closest inch (inch)
20	10	**729 840 106**	10	0.024	10	28	26	1	½
25	10	**729 840 107**	10	0.035	10	33	29	1 1/4	¾
32	10	**729 840 108**	10	0.060	10	41	33	1 1/2	1
40	10	**729 840 109**	10	0.101	12	50	39	2	1 ¼
50	10	**729 840 110**	10	0.128	14	62	46	2 1/4	1 ½
63	10	**729 840 111**	10	0.243	18	77	58	2 3/4	2
75	10	**729 840 112**	20	0.353	18	93	62	Tr108x5	2 ½
90	10	**729 840 123**	12	0.604	18	110	69	Tr128x5	3
110	10	**729 840 114**	10	0.728	11	133	72	Tr154x6	4





Union nut ABS

Model:

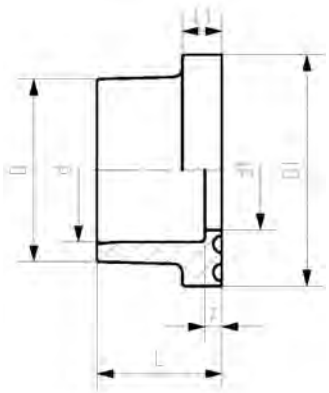
- For union 723 510 105-114

d (mm)	PN (bar)	Code	SP	Weight (lb)	L (mm)	G/Tr (inch)	D (mm)	closest inch (inch)
16	10	**729 890 405**	10	0.020	21	3/4		⅜
20	10	**729 890 406**	10	0.106	23	1	28	½
25	10	**729 890 407**	10	0.101	25	1 1/4	36	¾
32	10	**729 890 408**	10	0.055	27	1 1/2	42	1
40	10	**729 890 409**	10	0.132	30	2	53	1 ¼
50	10	**729 890 410**	10	0.220	34	2 1/4	59	1 ½
63	10	**729 890 411**	10	0.324	38	2 3/4	74	2
75	10	**729 690 012**	0	0.423	40	Tr108x5	92	2 ½
90	10	**729 690 013**	0	0.593	43	Tr128x5	110	3
110	10	**729 690 014**	0	0.917	48	Tr154x6	133	4

COOL-FIT ABS flange adaptors

Flange adaptor





Flange adaptor ABS metric

Model:

- Counter part: same flange adaptor
- Gasket: profile flange gasket EPDM code no. 748 440 706-723, FKM code no. 749 440 706-723
- Gasket: flat gasket EPDM code no. 748 400 306-323
- Joining faces flat/serrated
- >d225 - maximum operating temperature: +40°C

Note:

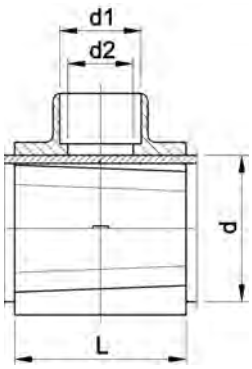
* bevel on pipe may be needed if used with butterfly valve type 037/038/039

	d (mm)	d (inch)	DN (mm)	PN (bar)	Code	SP	Weight (kg)
	20		15	10	**729 790 106**	10	0.007
	25		20	10	**729 790 107**	10	0.015
	32		25	10	**729 790 108**	10	0.020
	40		32	10	**729 790 109**	10	0.028
	50		40	10	**729 790 110**	10	0.038
	63		50	10	**729 790 111**	10	0.068
	75	2 ½	65	10	**729 790 112**	10	0.116
	90		80	10	**729 790 113**	10	0.185
	110		100	10	**729 790 114**	10	0.305
	140	5	125	10	**729 790 116**	6	0.535
*	160		150	10	**729 790 117**	2	0.821
*	200		200	10	**729 790 119**	2	1.123
	225		200	10	**729 790 120**	2	1.330
	250		250	6	**729 790 121**	1	1.699
	280		250	6	**729 790 122**	1	2.183
	315		300	6	**729 790 123**	1	3.321

	d (mm)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	closest inch (inch)
	20	27	34	16	21	6	3	½
	25	33	41	21	24	7	3	¾
	32	41	50	28	27	7	3	1
	40	50	61	36	30	8	3	1 ¼
	50	61	73	45	34	8	3	1 ½
	63	76	90	57	41	9	3	2
	75	91	106	69	47	10	3	2 ½
	90	108	125	82	56	11	5	3
	110	131	150	102	66	12	5	4
	140	165	188	132	81	14	5	5
*	160	188	213	152	91	16	5	6
*	200	224	250	192	112	24	6	8
	225	248	274	217	125	25	6	8
	250	274	303	240	140	23	9	9
	280	307	329	270	151	23	5	10
	315	346	379	302	172	27	8	12

COOL-FIT ABS branch saddles





Branch saddle ABS metric

Model:

- For ABS-pipes
- Outlet with solvent cement socket metric
- PN10
- Top saddle (ABS) for solvent cementing
- Bottom part and wedges made from PVC-U

d (mm)	PN* (bar)	Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	Tapping-Ø (mm)	L (mm)
90	10	**169 110 056**	1	0.786	50	40	39	105
110	10	**169 110 066**	1	0.864	50	40	39	105
160	10	**169 110 097**	1	1.329	63	49	48	120
225	10	**169 110 117**	1	1.587	63	49	48	120

PVC-C metric



Technical data

Materials
PVC-C

Dimensions range
16 mm to 255 mm (ISO/DIN)
¼ to 24" (ANSI/ASTM)
Flanges and valve connections (JIS)

Jointing technology
Cementing

Operating pressure
Up to 16 bar

Operating temperature
0°C to 80°C

Your benefits

- **Increased temperature range**
- **Very good chemical resistance**
- **Low costs for installation equipment**
- **Long support distances**

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	Adaptor fittings	347
	Unions	350
	Flange adaptors	361
	PVC-C accessories	362

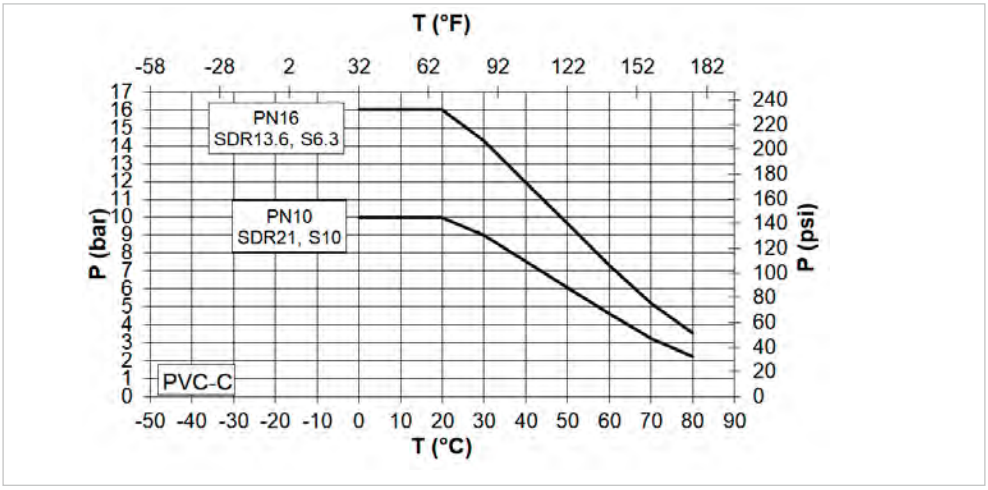
Pressure-temperature diagram for PVC-C

The following pressure-temperature diagram for PVC-C pipe and fittings is valid for a service life of 25 years.

The design factor recommended by GF Piping Systems has been incorporated. It can be used for water or media resembling water, in other words, media that have no reduction factor for chemical resistance.

Please take into account the pressure-temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared to pipe and fittings. More information is available in the Planning Fundamentals of the relevant types of valves and special fittings.

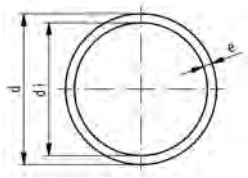
Under certain conditions, working temperatures up to 90 °C are possible for limited times. Please contact your GF Piping Systems representative for advice on applications beyond GF Piping Systems' specifications.



P Permissible pressure (bar, psi)
T Temperature (°C, °F)

Pipes





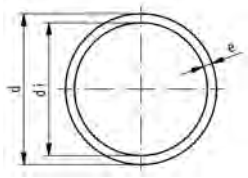
Pipe PVC-C grey
SDR9/PN25/S4

Model:

- Material: PVC-C, heat resistant
- Dimension: acc. to DIN 8079/80
- Colour: agate grey RAL 7038
- Pipe length: 5000mm, with plain ends
- **Note 1**: DVGW certification
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

Note	d (mm)	Code	Weight (kg/m)	e (mm)
1	16	**163 017 130**	0.136	1.8
1	20	**163 017 131**	0.217	2.3
1	25	**163 017 132**	0.326	2.8
1	32	**163 017 143**	0.534	3.6
1	40	**163 017 144**	0.830	4.5
1	50	**163 017 145**	1.290	5.6
1	63	**163 017 146**	2.050	7.1





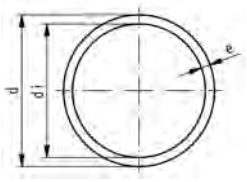
Pipe PVC-C grey
SDR13,6/PN16/S6,3

Model:

- Material: PVC-C, heat resistant
- Dimension: acc. to DIN 8079/80
- Colour: agate grey RAL 7038
- Pipe length: 5000mm, with plain ends
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

d (mm)	Code	Weight (kg/m)	e (mm)
32	**163 017 133**	0.379	2.4
40	**163 017 134**	0.582	3.0
50	**163 017 135**	0.896	3.7
63	**163 017 136**	1.430	4.7
75	**163 017 137**	2.020	5.6
90	**163 017 138**	2.880	6.7
110	**163 017 139**	4.270	8.1
160	**163 017 142**	8.980	11.8





DEKADUR-C Pipe PVC-C grey
SDR21/PN10/S10

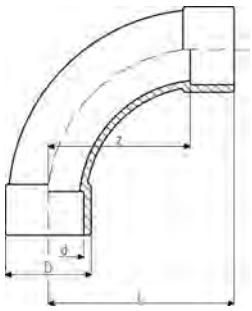
Model:

- Material: PVC-C, heat resistant
- Dimension: acc. to DIN 8079/80
- Colour: agate grey RAL 7038
- Pipe length: 5000mm, with plain ends
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

d (mm)	Code	Weight (kg)	e (mm)
75	**163 017 187**	1.320	3.5
90	**163 017 188**	1.930	4.3
110	**163 017 189**	2.890	5.3
140	**163 017 191**	4.630	6.7
160	**163 017 192**	6.060	7.7
225	**163 017 195**	11.900	10.8

Fittings



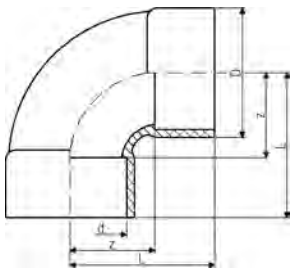


Bend 90° PVC-C metric

- Radius = 2 d

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
20	16	**723 000 106**	10	0.032	40	27	58
25	16	**723 000 107**	10	0.055	50	35	71
32	16	**723 000 108**	10	0.080	64	38	88
40	16	**723 000 109**	30	0.143	80	54	109
50	16	**723 000 110**	5	0.327	100	61	131
63	16	**723 000 111**	5	0.547	126	76	163
75	16	**723 000 112**	5	0.847	150	90	194
90	16	**723 000 113**	5	1.470	180	113	231
110	16	**723 000 114**	5	2.943	220	137	284
160	16	**723 000 117**	1	5.247	320	192	406



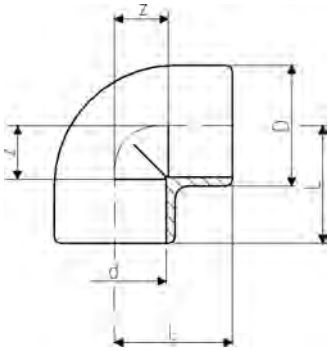


Bend 90° short pattern PVC-C metric

- Radius = 0,75 d

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
225	10	**723 010 120**	1	7.930	168	256	287

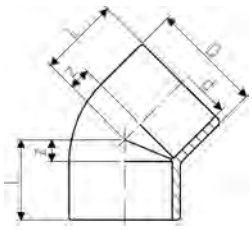




Elbow 90° PVC-C metric

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
16	16	**723 100 105**	10	0.015	9	21	23
20	16	**723 100 106**	10	0.014	11	25	27
25	16	**723 100 107**	10	0.025	14	31	33
32	16	**723 100 108**	10	0.047	17	40	39
40	16	**723 100 109**	10	0.077	21	49	47
50	16	**723 100 110**	10	0.139	26	61	57
63	16	**723 100 111**	10	0.259	33	76	72
75	16	**723 100 112**	5	0.437	40	90	84
90	16	**723 100 113**	5	0.626	46	110	97
110	16	**723 100 114**	3	1.085	61	128	116
160	16	**723 100 117**	1	3.097	80	185	166





Elbow 45° PVC-C metric

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
16	16	**723 150 105**	10	0.008	5	21	19
20	16	**723 150 106**	10	0.011	5	25	21
25	16	**723 150 107**	10	0.021	6	31	25
32	16	**723 150 108**	10	0.037	8	40	30
40	16	**723 150 109**	5	0.063	10	49	36
50	16	**723 150 110**	5	0.110	12	61	43
63	16	**723 150 111**	10	0.207	14	76	52
75	16	**723 150 112**	5	0.323	17	88	61
90	16	**723 150 113**	4	0.526	20	106	71
110	16	**723 150 114**	10	0.782	28	137	89
160	16	**723 150 117**	1	2.384	36	185	122
225	10	**723 150 120**	1	4.833	49	250	168

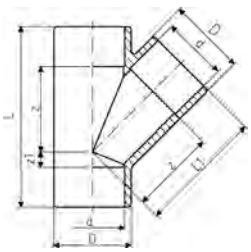




Tee 90° PVC-C metric

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
16	16	**723 200 105**	10	0.014	9	21	23
20	16	**723 200 106**	10	0.020	11	25	27
25	16	**723 200 107**	10	0.035	14	31	33
32	16	**723 200 108**	10	0.061	17	40	39
40	16	**723 200 109**	10	0.111	21	49	47
50	16	**723 200 110**	5	0.198	26	61	57
63	16	**723 200 111**	10	0.365	34	76	72
75	16	**723 200 112**	5	0.581	40	90	84
90	16	**723 200 113**	5	0.945	47	107	98
110	16	**723 200 114**	6	1.450	55	128	116
160	16	**723 200 117**	1	5.580	81	193	167
225	10	**723 200 120**	1	9.560	114	256	233

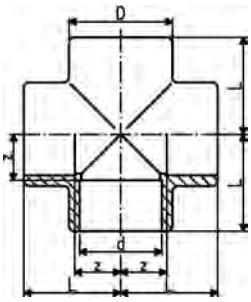




Tee 45° PVC-C metric

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	D (mm)	L (mm)	L1 (mm)
20	10	**723 250 106**	10	0.039	30	6	28	68	46
25	10	**723 250 107**	10	0.062	36	9	33	83	55
32	10	**723 250 108**	10	0.102	45	10	41	99	67
40	10	**723 250 109**	10	0.172	56	10	50	118	82
50	10	**723 250 110**	8	0.289	66	12	60	140	97
63	10	**723 250 111**	6	0.449	85	14	74	175	123
75	6	**723 250 112**	5	0.857	101	18	91	207	145
90	6	**723 250 113**	1	1.334	122	20	107	245	173
110	6	**723 250 114**	3	2.677	149	27	134	298	210

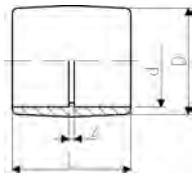




Cross PVC-C metric

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
32	16	**723 300 108**	10	0.101	17	43	39
63	16	**723 300 111**	5	0.511	34	79	72

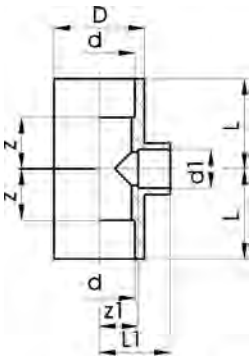




Socket PVC-C metric

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
16	16	**723 910 105**	10	0.008	3	22	31
20	16	**723 910 106**	10	0.010	3	26	35
25	16	**723 910 107**	10	0.017	3	31	41
32	16	**723 910 108**	10	0.029	3	39	47
40	16	**723 910 109**	10	0.049	3	49	55
50	16	**723 910 110**	10	0.085	3	61	65
63	16	**723 910 111**	10	0.155	3	76	79
75	16	**723 910 112**	10	0.204	4	87	92
90	16	**723 910 113**	10	0.338	5	110	107
110	16	**723 910 114**	5	0.769	5	131	132
160	16	**723 910 117**	2	1.605	8	183	180
225	10	**723 910 120**	1	3.644	10	253	248



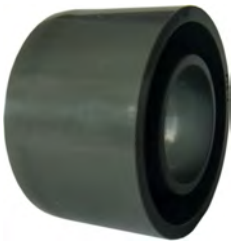


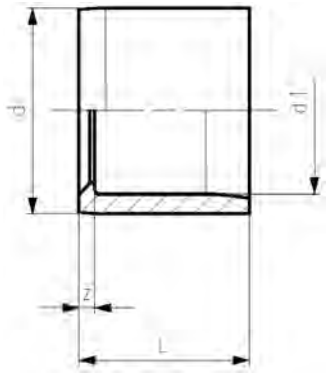
Tee 90° reducing PVC-C metric

*Tee 90° delivered with the required reducing bushes

	d1 (mm)	d (mm)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	L1 (mm)	z (mm)	D (mm)	L (mm)
	20	25	16	**723 200 134**	10	0.042	14	30	14	33	33
	25	32	16	**723 200 138**	10	0.069	17	36	17	41	39
	25	40	16	**723 200 151**	10	0.120	23	42	23	50	49
	32	40	16	**723 200 147**	10	0.120	23	45	23	50	49
	20	50	16	**723 200 009**	5	0.196	28	44	28	62	59
	25	50	16	**723 200 010**	5	0.192	28	47	28	62	59
	32	50	16	**723 200 164**	10	0.199	28	50	28	62	59
	25	63	16	**723 200 011**	10	0.358	34	53	34	77	73
	32	63	16	**723 200 178**	5	0.368	34	56	35	77	73
	50	63	16	**723 200 170**	5	0.096	34	65	35	77	73
*	63	75	16	**723 200 184**	8	0.766	47	84	41	92	84
*	32	90	16	**723 200 142**	6	1.436	75	97	46	111	97
*	63	90	16	**723 200 145**	5	1.166	66	97	46	111	97
*	32	110	16	**723 200 135**	3	2.796	101	116	55	128	116
*	90	110	16	**723 200 137**	3	1.780	71	116	55	128	116







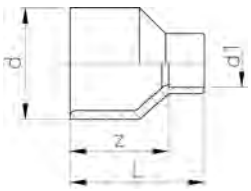
Reducing bush short pattern PVC-C metric

Model:

- With solvent cement spigot and socket metric

	d (mm)	d1 (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)
*	20	16	16	**723 900 334**	10	0.004	2	16
*	25	20	16	**723 900 337**	10	0.004	3	19
*	32	20	16	**723 900 342**	10	0.015	6	22
*	32	25	16	**723 900 341**	10	0.010	4	22
	40	20	16	**723 900 348**	10	0.023	10	26
	40	25	16	**723 900 347**	10	0.024	7	26
*	40	32	16	**723 900 346**	10	0.017	4	26
	50	20	16	**723 900 355**	10	0.036	15	31
	50	25	16	**723 900 354**	10	0.037	12	31
	50	32	16	**723 900 353**	10	0.050	9	31
*	50	40	16	**723 900 352**	10	0.032	5	31
	63	32	16	**723 900 360**	10	0.086	16	38
	63	40	16	**723 900 359**	10	0.074	12	38
*	63	50	16	**723 900 358**	10	0.061	6	38
	75	50	16	**723 900 365**	10	0.115	13	44
*	75	63	16	**723 900 364**	10	0.086	6	44
	90	50	16	**723 900 372**	10	0.196	20	51
	90	63	16	**723 900 371**	10	0.183	14	51
*	90	75	16	**723 900 370**	10	0.146	8	51
	110	63	16	**723 900 378**	5	0.329	24	61
*	110	90	16	**723 900 376**	5	0.283	10	61
	160	110	16	**723 900 390**	6	0.956	25	86
	225	160	16	**723 900 396**	2	2.380	33	119





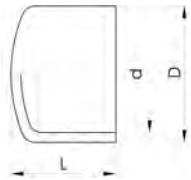
Reducing bush long pattern PVC-C metric

Model:

- With solvent cement spigot and socket metric

d1 (mm)	d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)
20	32	16	**723 910 342**	10	0.021	30	46
25	40	16	**723 910 347**	10	0.036	36	55
25	50	16	**723 910 354**	10	0.058	44	63
32	63	16	**723 910 360**	10	0.110	54	76
40	75	16	**723 910 366**	5	0.165	62	88
63	90	16	**723 910 371**	5	0.466	74	112

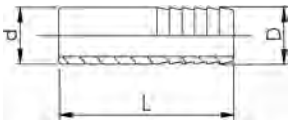




Cap PVC-C metric

d (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)
16	16	**723 960 105**	10	0.008	26	23
20	16	**723 960 106**	10	0.011	30	25
25	16	**723 960 107**	10	0.018	37	30
32	16	**723 960 108**	10	0.029	44	34
40	16	**723 960 109**	10	0.046	51	41
50	16	**723 960 110**	10	0.064	64	44
63	16	**723 960 111**	5	0.120	80	54
75	16	**723 960 112**	5	0.162	87	66
90	16	**723 960 113**	10	0.315	112	75
110	16	**723 960 114**	5	0.692	134	93
160	10	**723 960 117**	2	1.599	189	130





Hose nozzle PVC-C metric

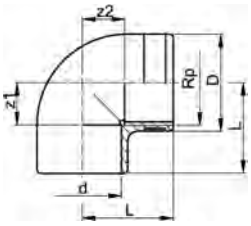
Model:

- With solvent cement spigot and parallel hose connection

d (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)
16	16	**723 960 405**	10	0.009	16	57
20	16	**723 960 406**	10	0.016	20	73
25	16	**723 960 407**	10	0.023	25	79
32	16	**723 960 408**	10	0.038	30	89

Adaptor fittings





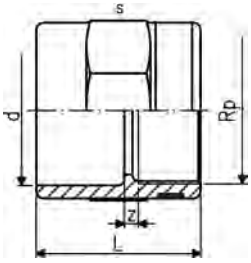
Elbow 90° PVC-C metric Rp

Model:

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-C

Rp (inch)	d (mm)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L (mm)
½	20	16	**723 100 206**	10	0.024	11	14	30	27
¾	25	16	**723 100 207**	10	0.037	14	17	35	33
1	32	16	**723 100 208**	10	0.063	17	22	45	39
1 ¼	40	16	**723 100 209**	10	0.134	23	27	55	50
1 ½	50	16	**723 100 210**	5	0.199	27	36	62	58
2	63	16	**723 100 211**	10	0.337	33	46	75	73





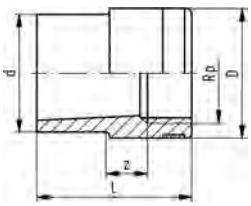
Socket PVC-C metric Rp

Model:

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-C

Rp (inch)	d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
½	20	16	**723 910 206**	10	0.027	4	35	32
¾	25	16	**723 910 207**	10	0.035	3	40	36
1	32	16	**723 910 208**	10	0.059	3	45	46
1 ¼	40	16	**723 910 209**	10	0.093	5	51	55
1 ½	50	16	**723 910 210**	10	0.133	7	59	65
2	63	16	**723 910 211**	5	0.211	7	69	80





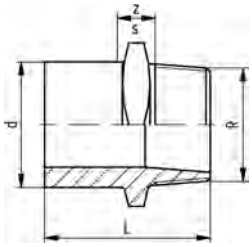
Reducing bush PVC-C metric Rp

Model:

- With solvent cement spigot metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
20	⅜	16	**723 910 434**	10	0.016	7	25	35
25	½	16	**723 910 437**	10	0.022	7	30	41
32	¾	16	**723 910 441**	10	0.033	15	35	48
40	1	16	**723 910 446**	10	0.061	20	45	56
50	1 ¼	16	**723 910 452**	10	0.105	20	55	66
63	1 ½	16	**723 910 458**	50	0.161	10	62	77





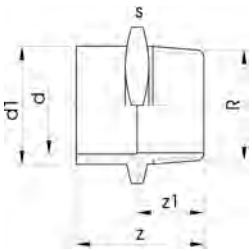
Adaptor nipple PVC-C metric R

Model:

- With solvent cement spigot metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-C

R (inch)	d (mm)	PN (bar)	Code	SP	Weight (kg)	L (mm)	z (mm)	s (mm)
⅜	16	16	**723 910 505**	10	0.012	35	8	27





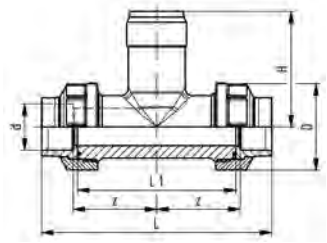
Adaptor socket nipple PVC-C metric R

Model:

- With solvent cement spigot/socket metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-C

d (mm)	R (inch)	d1 (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	s (mm)
16	½	20	16	**723 910 556**	10	0.017	42	28	32
20	¾	25	16	**723 910 557**	10	0.026	47	31	36
25	1	32	16	**723 910 558**	10	0.043	54	35	46
32	1 ¼	40	16	**723 910 559**	10	0.065	60	38	55
40	1 ½	50	16	**723 910 560**	10	0.102	66	40	65
50	2	63	16	**723 910 561**	5	0.173	78	47	80





Installation fitting type 310 PVC-C
For socket systems metric

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

Attention:

- sensor length depends on installation fitting

Model:

- Threaded outlet 1 ¼" NPSM
- Body and union nut PVDF
- Union end with solvent cement socket PVC-C

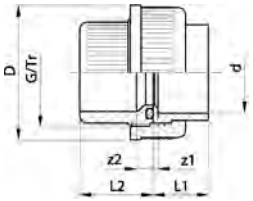
d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	16	**723 310 006**	1	0.250	**723 310 036**	1	0.250
25	20	16	**723 310 007**	1	0.355	**723 310 037**	1	0.355
32	25	16	**723 310 008**	1	0.427	**723 310 038**	1	0.427
40	32	16	**723 310 009**	1	0.700	**723 310 039**	1	0.700
50	40	16	**723 310 010**	1	0.850	**723 310 040**	1	0.850
63	50	16	**723 310 011**	1	1.182	**723 310 041**	1	1.182

d (mm)	DN (mm)	D (mm)	L (mm)	L1 (mm)	H (mm)	z (mm)	Sensor Type
20	15	45	132	90	76	49	flow X0; pH XX
25	20	55	148	100	78	53	flow X0; pH XX
32	25	62	164	110	81	58	flow X0; pH XX
40	32	75	172	110	85	58	flow X0; pH XX
50	40	84	188	120	89	63	flow X0; pH XX
63	50	101	212	130	95	68	flow X0; pH XX

Unions

Solvent cement unions





Union PVC-C metric

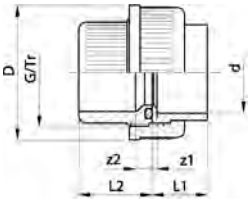
Model:

- Union End: PVC-C solvent cement socket metric
- Union bush: PVC-C solvent cement socket metric
- Gasket: O-ring EPDM code no. 748 410 005-016, for d90 748 410 248
- Gasket: O-ring FKM code no. 749 410 005 -016, for d90: 749 410 248

d (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	16	**723 510 105**	10	0.028	**723 510 130**	10	0.027
20	16	**723 510 106**	10	0.046	**723 510 131**	10	0.044
25	16	**723 510 107**	10	0.063	**723 510 132**	10	0.072
32	16	**723 510 108**	10	0.090	**723 510 133**	10	0.098
40	16	**723 510 109**	10	0.158	**723 510 134**	10	0.167
50	16	**723 510 110**	5	0.214	**723 510 135**	2	0.098
63	16	**723 510 111**	5	0.360	**723 510 136**	10	0.362
75	10	**723 510 112**	2	0.650	**723 510 137**	2	0.670
90	10	**723 510 313**	2	0.994	**723 510 338**	2	1.008
110	10	**723 510 114**	1	1.509	**723 510 139**	1	1.523

z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G/Tr (inch)
3	8	35	19	24	3/4
3	9	43	21	26	1
3	9	53	24	29	1 1/4
3	9	60	27	33	1 1/2
3	10	74	32	39	2
3	10	83	33	46	2 1/4
3	10	103	40	58	2 3/4
3	18	135	47	62	Tr108x5
5	18	158	56	69	Tr128x5
5	11	188	66	72	Tr154x6





Union PVC-C metric silicone-free

Model:

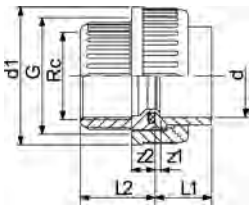
- Silicone free/paint-compatible
- Union End: PVC-C solvent socket metric
- Union bush: PVC-C solvent cement socket metric
- Gasket: O-ring EPDM code no. 748 410 005-016
- Gasket: O-ring FKM code no. 749 410 005 -016

d (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	16	**723 510 155**	10	0.028	**723 510 180**	0	0.028
20	16	**723 510 156**	10	0.046	**723 510 181**	0	0.046
25	16	**723 510 157**	10	0.071	**723 510 182**	0	0.071
32	16	**723 510 158**	10	0.099	**723 510 183**	0	0.099
40	16	**723 510 159**	10	0.190	**723 510 184**	0	0.190
50	16	**723 510 160**	5	0.240	**723 510 185**	0	0.240
63	16	**723 510 161**	10	0.425	**723 510 186**	0	0.425
75	10	**723 510 162**	2	0.670	**723 510 187**	0	0.670
90	10	**723 510 163**	2	1.008	**723 510 188**	0	1.008
110	10	**723 510 164**	2	1.553	**723 510 189**	0	1.553

d (mm)	D (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	G/Tr (inch)
16	35	19	24	3	8	3/4
20	43	21	26	3	9	1
25	53	24	29	3	9	1 1/4
32	60	27	33	3	9	1 1/2
40	74	32	39	3	10	2
50	83	33	46	3	10	2 1/4
63	103	40	58	3	10	2 3/4
75	135	47	62	3	18	Tr108x5
90	158	56	69	5	18	Tr128x5
110	188	66	72	5	11	Tr154x6

Adaptor unions





Adaptor union PVC-C metric Rp

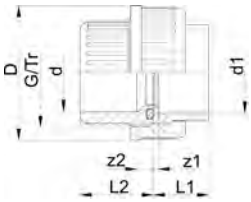
Model:

- Union End: PVC-C solvent cement socket metric
- Union Bush: PVC-C parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-C

Rp (inch)	d (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
⅜	16	16	**723 510 205**	10	0.022	**723 510 230**	0	0.022
½	20	16	**723 510 206**	10	0.047	**723 510 231**	0	0.040
¾	25	16	**723 510 207**	10	0.065	**723 510 232**	0	0.065
1	32	16	**723 510 208**	10	0.103	**723 510 233**	0	0.103
1 ¼	40	16	**723 510 209**	10	0.155	**723 510 234**	0	0.174
1 ½	50	16	**723 510 210**	2	0.239	**723 510 235**	0	0.239
2	63	16	**723 510 211**	2	0.400	**723 510 236**	0	0.435

z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G (inch)
3	13	35	17	24	3/4
3	13	43	19	26	1
3	14	51	22	29	1 1/4
3	15	58	25	32	1 1/2
3	19	74	31	38	2
3	26	83	34	45	2 1/4
3	33	100	41	56	2 3/4





Adaptor union PVC-C metric/ASTM

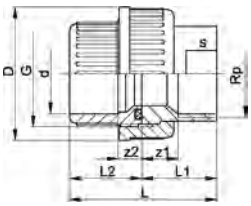
Model:

- Union End: PVC-C solvent cement socket inch ASTM
- Union bush: PVC-C solvent cement socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011

d (mm)	d1 (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	3/8	10	**723 514 105**	10	0.022	**723 514 130**	0	0.022
20	1/2	10	**723 514 106**	10	0.047	**723 514 131**	0	0.047
25	3/4	10	**723 514 107**	10	0.065	**723 514 132**	0	0.065
32	1	10	**723 514 108**	10	0.103	**723 514 133**	0	0.093
40	1 1/4	10	**723 514 109**	10	0.174	**723 514 134**	0	0.161
50	1 1/2	10	**723 514 110**	5	0.239	**723 514 135**	0	0.226
63	2	10	**723 514 111**	10	0.435	**723 514 136**	0	0.372

d (mm)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G (inch)
16	4	10	35	17	24	3/4
20	2	10	43	19	26	1
25	4	10	51	22	29	1 1/4
32	4	10	58	25	33	1 1/2
40	6	12	74	29	39	2
50	11	14	83	34	46	2 1/4
63	17	18	100	41	58	2 3/4





Adaptor union PVC-C/stainless steel metric Rp

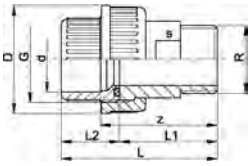
Model:

- Union Nut: PVC-C
- Union Bush: Solvent cement socket PVC-C metric
- Union End: Stainless Steel WN 1.4404 (316L), parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011

d (mm)	Rp (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	⅜	16	**723 540 205**	10	0.053	**723 540 230**	0	0.053
20	½	16	**723 540 206**	10	0.096	**723 540 231**	0	0.096
25	¾	16	**723 540 207**	5	0.154	**723 540 232**	0	0.154
32	1	16	**723 540 208**	5	0.212	**723 540 233**	0	0.212
40	1 ¼	16	**723 540 209**	2	0.356	**723 540 234**	0	0.347
50	1 ½	16	**723 540 210**	2	0.455	**723 540 235**	0	0.502
63	2	16	**723 540 211**	2	0.721	**723 540 236**	0	0.721

z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)	s (mm)
9	10	35	43	19	24	3/4	19
11	10	43	50	24	26	1	24
11	10	51	55	26	29	1 1/4	29
12	10	58	61	29	33	1 1/2	36
14	12	74	71	33	39	2	45
15	14	83	79	34	46	2 1/4	54
15	18	100	95	39	58	2 3/4	63





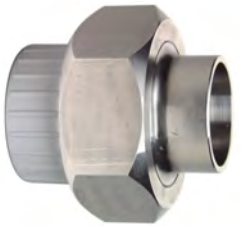
Adaptor union PVC-C/stainless steel metric R

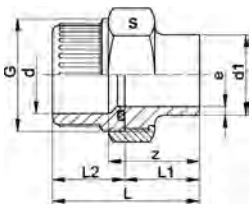
Model:

- Union Nut: PVC-C
- Union Bush: Solvent cement socket PVC-C metric
- Union End: Stainless Steel WN 1.4404 (316L), taper male thread R
- Gasket: O-ring EPDM code no. 748 410 005-011

R (inch)	d (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
⅜	16	16	**723 540 705**	10	0.073	**723 540 730**	0	0.073
½	20	16	**723 540 706**	10	0.126	**723 540 731**	0	0.120
¾	25	16	**723 540 707**	5	0.174	**723 540 732**	0	0.174
1	32	16	**723 540 708**	5	0.262	**723 540 733**	0	0.259
1 ¼	40	16	**723 540 709**	2	0.476	**723 540 734**	0	0.482
1 ½	50	16	**723 540 710**	2	0.535	**723 540 735**	0	0.535
2	63	16	**723 540 711**	2	0.931	**723 540 736**	0	0.982

z (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)	s (mm)
40	35	54	30	24	3/4	19
44	43	60	34	26	1	24
46	51	65	36	29	1 1/4	32
50	58	72	40	33	1 1/2	37
58	74	84	46	39	2	48
62	83	93	48	46	2 1/4	54
73	100	111	55	58	2 3/4	69





Adaptor union PVC-C/stainless steel metric welding end

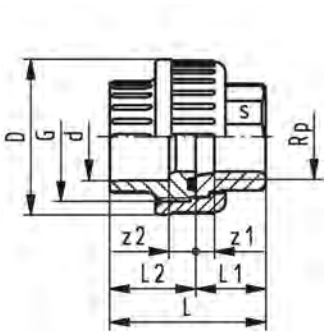
Model:

- Union Nut: Stainless Steel WN 1.4404 (316L)
- Union Bush: Solvent cement socket PVC-C metric
- Union End: Stainless Steel 1.4404 (316L) with welding end
- Gasket: O-ring EPDM code no. 748 410 005-011

d1 (mm)	d (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
17	16	16	**723 545 505**	10	0.101	**723 545 530**	0	0.101
21	20	16	**723 545 506**	10	0.176	**723 545 531**	0	0.171
27	25	16	**723 545 507**	5	0.204	**723 545 532**	0	0.204
34	32	16	**723 545 508**	5	0.313	**723 545 533**	0	0.313
42	40	16	**723 545 509**	2	0.493	**723 545 534**	0	0.493
48	50	16	**723 545 510**	2	0.566	**723 545 535**	0	0.566
60	63	16	**723 545 511**	2	0.902	**723 545 536**	0	0.885

z (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	G (inch)	s (mm)
28	42	18	24	1.6	3/4	32
32	48	22	26	2.0	1	41
33	52	23	29	2.0	1 1/4	46
36	58	26	33	2.0	1 1/2	55
38	64	26	39	2.0	2	68
42	73	28	46	2.0	2 1/4	74
50	88	32	58	2.6	2 3/4	88





Adaptor union PVC-C/malleable iron galvanised metric Rp

Model:

- Union Nut: PVC-C
- Union Bush: Solvent cement socket PVC-C metric
- Union End: malleable iron with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011

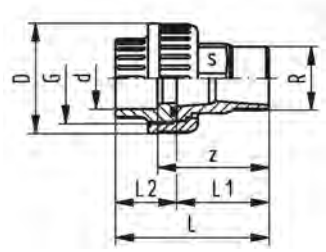
Rp (inch)	d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)	z1 (mm)	z2 (mm)	s (mm)
½	20	**723 530 306**	10	0.075	43	48	22	26	1	9	10	25
¾	25	**723 530 307**	5	0.112	51	51	22	29	1 1/4	7	10	31
1	32	**723 530 308**	5	0.157	58	58	26	33	1 1/2	9	10	38
1 ¼	40	**723 530 309**	2	0.300	72	69	31	39	2	12	12	48
1 ½	50	**723 530 310**	2	0.384	83	78	33	46	2 1/4	14	14	54
2	63	**723 530 311**	5	0.603	100	91	35	58	2 3/4	11	18	67



Adaptor union PVC-C/malleable iron galvanised metric R

Model:

- Union Nut: PVC-C
- Union End: Malleable iron with taper male thread R
- Union Bush: Solvent cement socket PVC-C metric
- Gasket: O-ring EPDM code no. 748 410 006-011



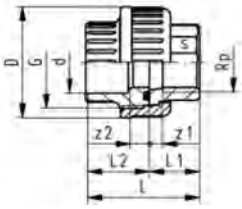
R (inch)	d (mm)	Code	SP	Weight (kg)	s (mm)	L2 (mm)	G (inch)	z (mm)	L1 (mm)	D (mm)	L (mm)
½	20	**723 530 806**	10	0.114	25	26	1	50	40	43	66
¾	25	**723 530 807**	5	0.165	31	29	1 1/4	53	43	51	72
1	32	**723 530 808**	5	0.205	38	33	1 1/2	58	48	58	80
1 ¼	40	**723 530 809**	2	0.403	48	39	2	69	57	72	95
1 ½	50	**723 530 810**	2	0.539	54	46	2 1/4	73	59	83	104
2	63	**723 530 811**	8	0.787	67	58	2 3/4	80	62	100	118



Adaptor union PVC-C/brass metric Rp

Model:

- Union Nut: PVC-C
- Union Bush: Solvent cement socket PVC-C metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011



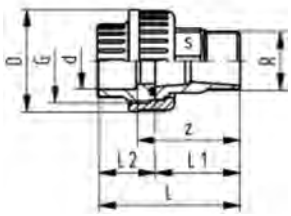
Rp (inch)	PN (bar)	d (mm)	Code	SP	Weight (kg)	L1 (mm)	D (mm)	L (mm)	L2 (mm)	s (mm)	z1 (mm)	z2 (mm)	G (inch)
½	16	20	**723 550 506**	10	0.093	22	43	48	26	25	7	10	1
¾	16	25	**723 550 507**	5	0.152	25	51	54	29	30	9	10	1 1/4
1	16	32	**723 550 508**	5	0.198	27	58	60	33	36	8	11	1 1/2
1 ¼	16	40	**723 550 509**	2	0.351	31	72	70	39	46	10	13	2
1 ½	16	50	**723 550 510**	2	0.507	35	83	81	46	55	13	15	2 1/4
2	16	63	**723 550 511**	5	0.809	40	100	98	58	65	14	21	2 3/4



Adaptor union PVC-C/brass metric R

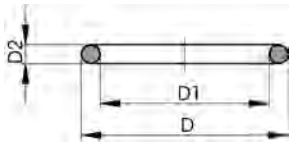
Model:

- Union Nut: PVC-C
- Union Bush: Solvent cement socket PVC-C metric
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011



R (inch)	d (mm)	PN* (bar)	Code	SP	Weight (kg)	z (mm)	s (mm)	G (inch)	L1 (mm)	D (mm)	L (mm)	L2 (mm)
½	20	16	**723 550 906**	10	0.132	47	25	1	37	43	63	26
½	25	16	**723 550 957**	5	0.230	47	30	1 1/4	37	51	66	29
¾	25	16	**723 550 907**	5	0.203	52	30	1 1/4	42	51	71	29
1	25	16	**723 550 967**	5	0.312	56	30	1 1/4	46	51	75	29
½	32	16	**723 550 958**	5	0.302	48	36	1 1/2	37	58	70	33
¾	32	16	**723 550 968**	5	0.302	53	36	1 1/2	52	58	75	33
1	32	16	**723 550 908**	5	0.393	57	36	1 1/2	46	58	79	33
1 ¼	40	16	**723 550 909**	2	0.493	65	46	2	52	72	91	39
1 ½	50	16	**723 550 910**	2	1.468	71	55	2 1/4	56	83	102	46
2	63	16	**723 550 911**	2	1.103	87	65	2 3/4	67	100	125	58





O-Ring gasket

Model:

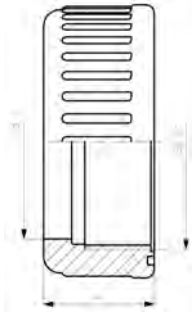
- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

* For unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

	d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	10 - 12	8	**748 410 004**	0.002	**749 410 004**	0.002
	16	10	**748 410 005**	0.004	**749 410 005**	0.002
	20	15	**748 410 006**	0.002	**749 410 006**	0.002
	25	20	**748 410 007**	0.002	**749 410 007**	0.002
	32	25	**748 410 008**	0.003	**749 410 008**	0.002
	40	32	**748 410 009**	0.003	**749 410 009**	0.007
	50	40	**748 410 010**	0.004	**749 410 010**	0.006
	63	50	**748 410 011**	0.005	**749 410 011**	0.003
	75	65	**748 410 014**	0.007	**749 410 014**	0.012
	90	80	**748 410 015**	0.008	**749 410 015**	0.015
*	90	80	**748 410 248**	0.008	**749 410 248**	0.020
	110	100	**748 410 016**	0.016	**749 410 016**	0.031

	d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	closest inch (inch)
	10 - 12	8	17.62	12.37	2.62	¼
	16	10	20.78	15.54	2.62	⅜
	20	15	27.28	20.22	3.53	½
	25	20	35.23	28.17	3.53	¾
	32	25	39.99	32.93	3.53	1
	40	32	51.33	40.65	5.34	1 ¼
	50	40	57.68	46.99	5.34	1 ½
	63	50	70.37	59.69	5.34	2
	75	65	92.60	81.92	5.34	2 ½
	90	80	111.68	101.00	5.34	3
*	90	80	105.30	94.62	5.34	3
	110	100	134.00	120.20	6.99	4





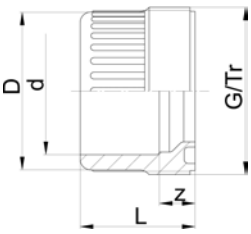
Union nut PVC-C

Model:

- For union 723 510 105-114

d (mm)	PN (bar)	Code	SP	Weight (kg)	L (mm)	G/Tr (inch)
16	16	**723 690 005**	300	0.012	21	3/4
20	16	**723 690 006**	900	0.020	23	1
25	16	**723 690 007**	850	0.022	24	1 1/4
32	16	**723 690 008**	500	0.032	26	1 1/2
40	16	**723 690 009**	0	0.053	29	2
50	16	**723 690 010**	200	0.094	34	2 1/4
63	16	**723 690 011**	140	0.143	38	2 3/4
75	10	**723 690 012**	20	0.267	40	Tr108x5
90	10	**723 690 013**	0	0.389	43	Tr128x5
110	10	**723 690 014**	0	0.609	48	Tr154x6





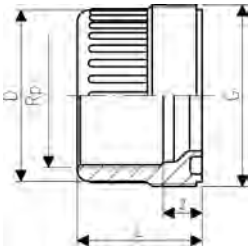
Union bush PVC-C metric

Model:

- Solvent cement socket metric
- For union 723 510 105-114
- Jointing face: with O-ring groove
- Gasket: O-ring EPDM code no. 748 410 005-016

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)	G/Tr (inch)
16	16	**723 840 105**	10	0.009	11	24	25	3/4
20	16	**723 840 106**	10	0.014	12	28	26	1
25	16	**723 840 107**	10	0.024	11	33	29	1 1/4
32	16	**723 840 108**	10	0.038	10	41	33	1 1/2
40	16	**723 840 109**	10	0.066	12	50	39	2
50	16	**723 840 110**	10	0.083	14	62	46	2 1/4
63	16	**723 840 111**	10	0.158	19	77	58	2 3/4
75	10	**723 840 112**	20	0.230	18	93	62	Tr108x5
90	10	**723 840 123**	12	0.381	18	110	69	Tr128x5
110	10	**723 840 114**	10	0.480	11	133	72	Tr154x6



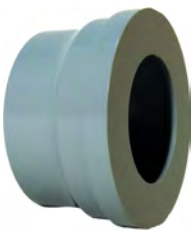


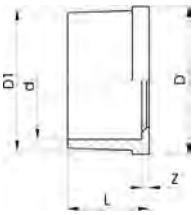
Union bush PVC-C Rp

Model:

- With parallel female thread Rp
- For union 723 510 105-114
- Jointing face: with O-ring groove
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-C
- Gasket: O-ring EPDM code no. 748 410 005-011

Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)	G (inch)
⅜	10	**723 840 605**	10	0.010	13	24	24	3/4
½	10	**723 840 606**	10	0.015	13	29	26	1
¾	10	**723 840 607**	10	0.024	14	34	29	1 1/4
1	10	**723 840 608**	10	0.039	15	42	32	1 1/2
1 ¼	10	**723 840 609**	10	0.069	19	53	38	2
1 ½	10	**723 840 610**	10	0.092	26	63	45	2 1/4
2	10	**723 840 611**	10	0.114	33	78	56	2 3/4





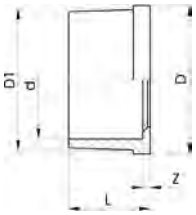
Union end PVC-C metric

Model:

- For union 723 510 105-114
- With solvent cement socket metric

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
16	16	**723 800 105**	10	0.005	3	24	22	19
20	16	**723 800 106**	10	0.010	4	30	28	21
25	16	**723 800 107**	10	0.018	3	39	36	24
32	16	**723 800 108**	10	0.023	3	44	41	27
40	16	**723 800 109**	10	0.062	3	57	53	31
50	16	**723 800 110**	10	0.064	3	63	59	34
63	16	**723 800 111**	10	0.120	3	78	74	41
75	10	**723 800 162**	20	0.157	3	101	91	47
90	10	**723 800 163**	12	0.260	5	121	108	56
110	10	**723 800 164**	10	0.418	5	146	131	66





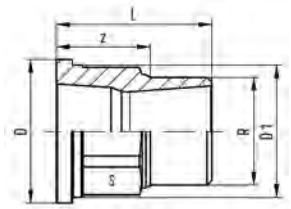
Union end PVC-C ASTM

Model:

- For union 723 510 105-114
- With solvent cement socket ASTM

d1 (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
3/8	16	**723 602 005**	500	0.006	3	24	22	22
1/2	16	**723 602 006**	500	0.013	3	30	28	25
3/4	16	**723 602 007**	603	0.016	3	39	36	28
1	16	**723 602 008**	650	0.025	3	45	42	32
1 1/4	16	**723 602 009**	210	0.040	3	57	53	35
1 1/2	16	**723 602 010**	380	0.049	3	63	59	38
2	16	**723 602 011**	250	0.080	3	78	74	41
2 1/2	16	**723 602 012**	20	0.169	3	101	91	47
3	16	**723 602 013**	50	0.275	5	121	108	56
4	16	**723 602 014**	25	0.420	5	146	131	66





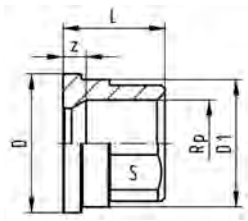
Union end malleable iron galvanized R

Model:

- Union End: Malleable iron with taper male thread R

R (inch)	d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	D1 (mm)	z (mm)	s (mm)
½	20	**724 600 806**	1	0.069	30	40	27	25	23
¾	25	**724 600 807**	1	0.115	39	43	36	27	30
1	32	**724 600 808**	0	0.161	44	48	41	29	36
1 ¼	40	**724 600 809**	0	0.294	56	57	52	36	48
1 ½	50	**724 600 810**	0	0.353	62	59	58	37	54
2	63	**724 600 811**	1	0.570	78	62	73	36	66
2 ½	75	**724 600 812**	0	0.980	97	75	92	45	85
3	90	**724 600 813**	0	1.217	110	80	104	47	95





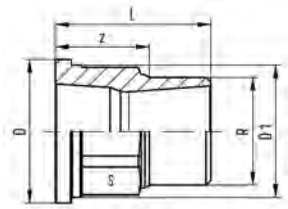
Union end malleable iron galvanized Rp

Model:

- Union End: malleable iron with parallel female thread Rp

d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	s (mm)	z (mm)	D1 (mm)
20	½	16	**724 600 206**	0	0.037	30	22	25	9	27
25	¾	16	**724 600 207**	0	0.072	39	22	31	7	36
32	1	16	**724 600 208**	120	0.088	44	26	38	9	41
40	1 ¼	16	**724 600 209**	0	0.172	56	31	48	12	52
50	1 ½	16	**724 600 210**	10	0.210	62	33	54	14	58
63	2	16	**724 600 211**	0	0.324	78	35	67	11	73
75	2 ½	16	**724 600 212**	35	0.557	100	39	85	12	92
90	3	16	**724 600 213**	0	0.650	121	45	96	15	110





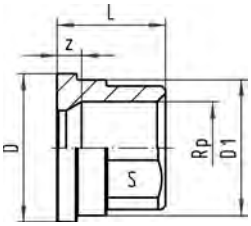
Union end brass R

Model:

- Union End: Brass with taper male thread R

d (mm)	R (inch)	Code	SP	Weight (kg)	z (mm)	D1 (mm)	D (mm)	s (mm)	L (mm)
20	½	**720 600 246**	1	0.092	22	28	30	25	37
25	¾	**720 600 247**	1	0.151	25	36	39	30	42
25	½	**720 600 257**	1	0.142	27	36	39	30	42
32	1	**720 600 248**	1	0.216	28	42	45	36	46
32	½	**720 600 258**	1	0.113	31	42	45	36	46
32	¾	**720 600 268**	1	0.206	30	42	45	36	46
40	1 ¼	**720 600 249**	1	0.408	32	53	56	46	52
50	1 ½	**720 600 250**	1	0.538	36	59	62	55	56
63	2	**720 600 251**	1	0.859	42	74	78	65	67
75	2 ½	**720 600 252**	1	1.446	49	92	100	85	77
90	3	**720 600 253**	1	2.063	54	110	121	95	86





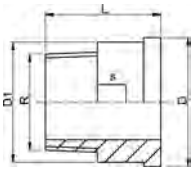
Union end brass Rp

Model:

- Union End: Brass with parallel female thread Rp

Rp (inch)	d (mm)	Code	SP	Weight (kg)	L (mm)	s (mm)	D (mm)	D1 (mm)	z (mm)
½	20	**720 600 236**	1	0.059	22	25	30	28	5
¾	25	**720 600 237**	1	0.100	25	30	39	36	6
1	32	**720 600 238**	1	0.128	27	36	45	42	6
1 ¼	40	**720 600 239**	1	0.211	31	46	56	53	7
1 ½	50	**720 600 240**	1	0.324	35	55	62	59	7
2	63	**720 600 241**	1	0.510	40	65	78	74	8
2 ½	75	**720 600 242**	1	0.893	47	85	100	92	10
3	90	**720 600 243**	1	1.395	52	95	121	110	11



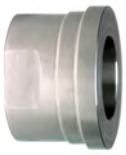


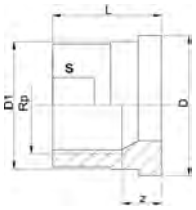
Union end stainless steel R

Model:

- Material: stainless steel 1.4404 (316L)
- Taper male thread R

d (mm)	R (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L (mm)	s (mm)
16	⅜	16	**724 600 705**	10	0.052	24	22	30	19
20	½	16	**724 600 706**	10	0.083	30	28	34	24
25	¾	16	**724 600 707**	10	0.125	39	36	36	32
32	1	16	**724 600 708**	10	0.189	45	42	40	37
40	1 ¼	16	**724 600 709**	10	0.356	57	53	46	48
50	1 ½	16	**724 600 710**	10	0.407	63	59	48	54
63	2	16	**724 600 711**	10	0.668	78	74	55	69





Union end stainless steel Rp

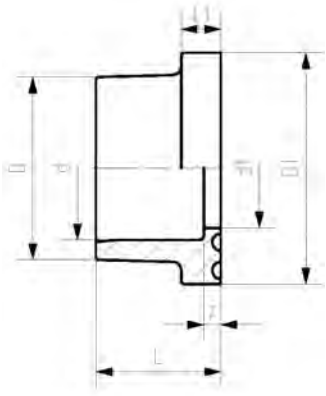
Model:

- Material: stainless steel 1.4404 (316L)
- Parallel female thread Rp

d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)	s (mm)
16	⅜	16	**724 600 655**	10	0.030	9	24	22	19	19
20	½	16	**724 600 656**	10	0.060	11	30	28	24	24
25	¾	16	**724 600 657**	10	0.092	11	39	36	26	29
32	1	16	**724 600 658**	10	0.137	12	45	42	29	36
40	1 ¼	16	**724 600 659**	10	0.226	14	57	53	33	45
50	1 ½	16	**724 600 660**	10	0.314	15	63	59	34	54
63	2	16	**724 600 661**	45	0.438	15	78	74	39	63

Flange adaptors





Flange adaptor PVC-C
Combined jointing face flat and serrated metric

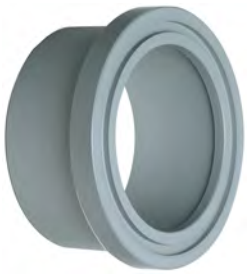
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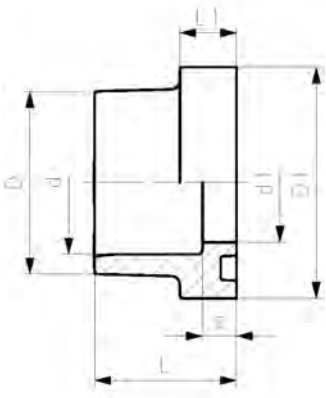
- Gasket: flat gasket EPDM code no. 748 400 306-320
- Gasket: profile flange gasket EPDM code no. 748 440 706-720, FKM code no. 749 440 706-720
- Flanges (metric & ANSI): PVC-U, PP-V, PP-Steel

Note:

* bevel on pipe may be needed if used with butterfly valve type 037/038/039

	d (mm)	DN (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
*	200	200	10	**723 790 119**	2	1.630	224	250	192.0	112	24	6





Flange adaptor PVC-C with O-ring groove metric

Model:

- Counterpart: flange adaptor code no. 723 790 117, 723 790 120
- Gasket: O-ring EPDM code no. 748 410 019, 748 410 022; FKM code no. 749 410 019, 749 410 022
- Flange: code no. 727 700 406-420, 727 700 206-220, 721 700 006-020

d (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
160	16	**723 810 117**	12	1.252	188	213	152	97	22	11
225	10	**723 810 120**	2	2.050	248	274	217	131	31	12

PVC-C accessories



Tangit PVC-C solvent cement

- 0,65 kg can (net)

Code	SP	Weight (kg)
799 298 027	6	0.700



Cap for cement

- Cap prevents the evaporation of the solvent whilst using the Tangit cement

Code	SP	Weight (kg)
799 298 028	500	0.030



Tangit PVC-U/PVC-C/ABS cleaner

Model:

- For PVC-U, PVC-C, ABS
- 1 litre tin

Code	SP	Weight (kg)
799 298 010	12	0.900



Round brush

d-d (mm)		Code	SP	Weight (kg)	Closest inch (inch)
6 - 10	4 mm (for Fittings 6-10mm)	**799 299 001**	12	0.004	⅛
12 - 32	8 mm (for Fittings 12-32mm)	**799 299 002**	12	0.006	¼ - 1



Flat brush

d-d (mm)		Code	SP	Weight (kg)	Closest inch (inch)
40 - 63	25x3 mm (for Fittings 40-63mm)	**799 299 003**	12	0.015	1 ¼ - 2
75 - 225	50x5 mm (for Fittings 75-225mm)	**799 299 004**	12	0.035	2 ½ - 8
250 - 400	75x6 mm (for Fittings 250-400mm)	**799 299 005**	12	0.053	9 - 16



PPC Plastic pipe cutter

For cutting plastic pipes d10 - d160

d-d (mm)	Article	Code	SP	Weight (kg)	Closest inch (inch)
10 - 63	PPC 63, s max. = 7.2mm	**790 109 001**	1	0.865	⅛ - 2
50 - 110	PPC 110, s max. = 12.7mm	**790 109 002**	1	1.624	1 ½ - 4
110 - 160	PPC 160, s max. = 19.0mm	**790 109 003**	1	2.212	4 - 6



Replacement cutting wheels

For plastic pipe cutter

d-d (mm)	Article	Code	SP	Weight (kg)
10 - 63	SR 63 max. s=7,2 mm	**790 109 011**	1	0.004
50 - 110	SR 110/160 max. s=12,7 mm	**790 109 012**	1	0.015
110 - 160	SR 160 max. s=19,0 mm	**790 109 013**	1	0.023



Alignment Tool

- To align and position pipes in the dimension range d 110 - 400 mm. The pipes are clamped in the vice, the axial movement takes placed by a chain drive. The chain is totated by the ratched (square 19 mm).

Article	Code	SP	Weight (kg)
Alignment Tool	**790 109 108**	0	15.000
Ratch	**790 109 107**	0	1.220



Chamfering tool

d-d (mm)	Size (mm)	Code	SP	Weight (kg)	Closest inch (inch)
16 - 75	1	**799 495 145**	0	0.720	⅜ - 2 ½
32 - 200	2	**799 495 146**	0	0.992	1 - 8



Marker

Type	Code	Weight (kg)
silver	**799 350 364**	0.010



Timer with 2 stop times

Code	SP	Weight (kg)
790 114 028	1	0.088

PVC-U metric



Technical data

Materials
PVC-U

Dimensions range
6 mm to 400 mm (ISO/DIN)
3/8" to 8" (BS)
1/8" to 24" (ANSI/ASTM)
Flanges and valve connections (JIS)

Jointing technology
Cementing

Operating pressure
Up to 16 bar

Operating temperature
0°C to 60°C

Your benefits

- **Comprehensive product range**
- **Very good chemical resistance**
- **Low costs for installation equipment**
- **Food and drinking water approvals**

Table of contents		Page
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	Pipe fittings for solvent cement jointing	371
	Adaptor fittings	380
	Unions/tank adapters	390
	Solvent Cements and Tools	402

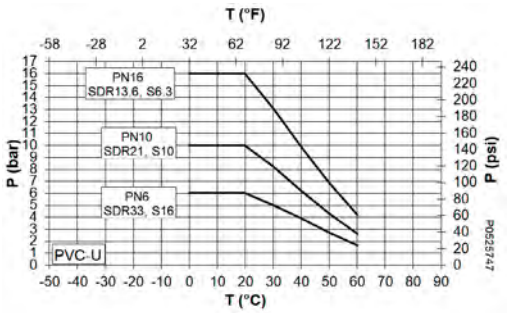
Pressure-temperature diagram for PVC-U

The following pressure-temperature diagram for PVC-U pipe and fittings is valid for a service life of 25 years.

The design factor of 2.5 recommended by GF Piping Systems has been incorporated. It can be used for water or media resembling water, in other words, media that have no reduction factor for chemical resistance.

Please take into account the pressure-temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared to pipe and fittings. More information is available in the Planning Fundamentals of the relevant types of valves and special fittings.

Metric systems



P Permissible pressure (bar, psi)
T Temperature (°C, °F)

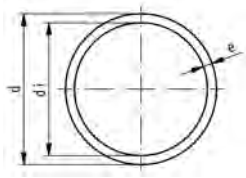
PVC-U fittings d200 to d280 by GF Piping Systems are designed and tested for a nominal pressure of PN10. Sizes d315 to d400 are designed and tested for a nominal pressure of PN6

Our experience and tests show that pipe equal to or greater than d315 can be slightly oval, which could produce an enlarged cementing gap.

GF Piping Systems therefore recommends that pipe equal or greater than d315 should be operated at a maximum operating pressure (+20 °C) of 6 bar. Please observe the special information for this dimension range in the cementing instructions for PVC-U.

Pipes





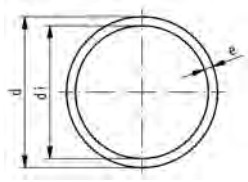
Pipe PVC-U grey
SDR21/PN10/S10

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- * SDR 17
- **Note 1**: DIBT Z-40.23-1 approval
- **Note 3**: DVGW approval + DIN plus
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

	Note	d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)
*	1, 3	25	10	**161 017 082**	0.177	1.5
*	1, 3	32	10	**161 017 083**	0.280	1.9
	1, 3	40	10	**161 017 084**	0.355	1.9
	1, 3	50	10	**161 017 085**	0.560	2.4
	1, 3	63	10	**161 017 086**	0.866	3.0
	1, 3	75	10	**161 017 087**	1.240	3.6
	1, 3	90	10	**161 017 088**	1.770	4.3
	1, 3	110	10	**161 017 089**	2.650	5.3
	1, 3	125	10	**161 017 090**	3.390	6.0
	1, 3	140	10	**161 017 091**	4.240	6.7
	1, 3	160	10	**161 017 092**	5.550	7.7
	1, 3	180	10	**161 017 093**	6.970	8.6
	1, 3	200	10	**161 017 094**	8.640	9.6
	1, 3	225	10	**161 017 095**	10.900	10.8
		250	10	**161 017 096**	13.300	11.9
		280	10	**161 017 097**	16.800	13.4
		315	10	**161 017 098**	21.200	15.0





Pipe PVC-U grey SDR13,6/PN16/S6,3

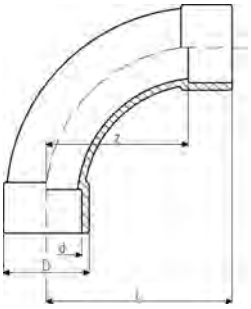
Model:

- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- * SDR 11
- **Note 1**: DIBT Z-40.23-1 approval
- **Note 3**: DVGW approval + DIN plus
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

	Note	d (mm)	Code	Weight (kg/m)	e (mm)
*		12	**161 017 104**	0.062	1.1
	1, 3	16	**161 017 105**	0.091	1.2
	1, 3	20	**161 017 106**	0.139	1.5
	1, 3	25	**161 017 107**	0.215	1.9
	1, 3	32	**161 017 108**	0.347	2.4
	1, 3	40	**161 017 109**	0.533	3.0
	1, 3	50	**161 017 110**	0.821	3.7
	1, 3	63	**161 017 111**	1.310	4.7
	1, 3	75	**161 017 112**	1.850	5.6
	1, 3	90	**161 017 113**	2.640	6.7
	1, 3	110	**161 017 114**	3.910	8.1
	1, 3	125	**161 017 115**	5.040	9.2
	1, 3	140	**161 017 116**	6.030	10.3
	1, 3	160	**161 017 117**	8.230	11.8

Pipe fittings for solvent cement jointing

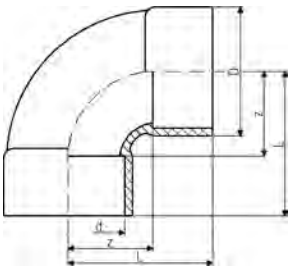




Bend 90° PVC-U metric

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
20	16	**721 000 106**	10	0.029	40	27	56
25	16	**721 000 107**	10	0.049	50	33	69
32	16	**721 000 108**	10	0.074	64	38	86
40	16	**721 000 109**	30	0.121	80	47	106
50	16	**721 000 110**	5	0.298	100	61	131
63	16	**721 000 111**	6	0.516	126	76	164
75	16	**721 000 112**	5	0.798	150	90	194
90	16	**721 000 113**	5	1.373	180	108	231
110	16	**721 000 114**	5	2.699	220	137	281
140	16	**721 000 116**	2	5.204	280	168	356
160	16	**721 000 117**	1	8.298	320	192	406

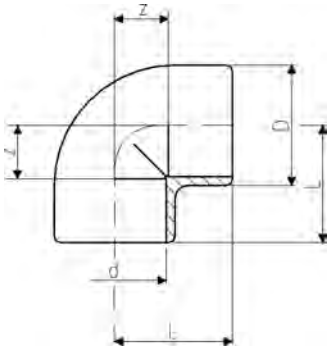




Bend 90° short pattern PVC-U metric

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
225	10	**721 010 120**	1	7.554	168	256	287
280	10	**721 010 122**	1	16.987	210	318	357
315	6	**721 010 123**	1	21.567	237	356	402
400	6	**721 010 125**	1	30.000	300	442	521

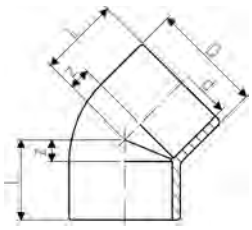




Elbow 90° PVC-U metric

d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
6		16	**721 100 101**	10	0.004	4	11	16
8		16	**721 100 102**	10	0.004	5	13	17
10		16	**721 100 103**	10	0.004	6	14	18
12		16	**721 100 104**	10	0.006	7	17	19
16		16	**721 100 105**	10	0.007	9	21	23
20		16	**721 100 106**	10	0.012	11	25	27
25		16	**721 100 107**	10	0.024	14	32	33
32		16	**721 100 108**	10	0.043	17	40	39
40		16	**721 100 109**	10	0.062	23	47	49
50		16	**721 100 110**	10	0.107	26	59	57
63		16	**721 100 111**	10	0.205	33	73	71
75	2 ½	16	**721 100 112**	5	0.336	40	87	83
90		16	**721 100 113**	5	0.576	46	105	97
110		16	**721 100 114**	4	1.009	55	128	116
125		16	**721 100 115**	1	1.522	63	146	131
140	5	16	**721 100 116**	4	1.945	70	162	146
160		16	**721 100 117**	2	2.873	80	185	166
200		10	**721 100 119**	1	4.446	101	225	207
225		10	**721 100 120**	1	5.989	114	252	233
250		10	**721 100 121**	1	10.014	131	282	263





Elbow 45° PVC-U metric

d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
16		16	**721 150 105**	10	0.008	5	21	19
20		16	**721 150 106**	10	0.011	5	25	21
25		16	**721 150 107**	10	0.017	6	31	25
32		16	**721 150 108**	10	0.021	8	38	30
40		16	**721 150 109**	10	0.048	10	47	36
50		16	**721 150 110**	5	0.086	12	59	43
63		16	**721 150 111**	5	0.160	14	73	52
75	2 ½	16	**721 150 112**	5	0.253	17	87	61
90		16	**721 150 113**	4	0.430	20	105	71
110		16	**721 150 114**	4	0.750	25	127	86
125		16	**721 150 115**	1	1.193	28	146	97
140	5	16	**721 150 116**	1	1.570	32	162	108
160		16	**721 150 117**	4	2.280	36	185	122
200		10	**721 150 119**	2	3.288	43	225	149
225		10	**721 150 120**	1	4.191	49	250	168
250		10	**721 150 121**	1	7.115	60	282	192
280		10	**721 150 122**	1	10.340	66	318	213
315		6	**721 150 123**	1	14.292	74	356	239
400		6	**721 150 125**	1	25.268	94	442	302

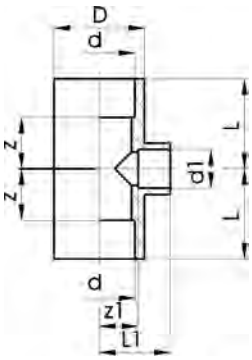




Tee 90° equal PVC-U metric

d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
6		16	**721 200 101**	10	0.004	11	16	4
8		16	**721 200 102**	10	0.008	13	17	5
10		16	**721 200 103**	10	0.008	16	18	6
12		16	**721 200 104**	10	0.011	19	19	7
16		16	**721 200 105**	10	0.011	21	23	9
20		16	**721 200 106**	10	0.019	25	27	11
25		16	**721 200 107**	10	0.029	31	33	14
32		16	**721 200 108**	10	0.055	38	39	17
40		16	**721 200 109**	10	0.100	48	49	23
50		16	**721 200 110**	10	0.156	58	57	26
63		16	**721 200 111**	10	0.291	73	71	33
75	2 ½	16	**721 200 112**	5	0.476	87	83	39
90		16	**721 200 113**	4	0.824	105	97	46
110		16	**721 200 114**	6	1.411	127	116	55
125		16	**721 200 115**	2	2.521	151	135	66
140	5	16	**721 200 116**	1	3.410	169	147	71
160		16	**721 200 117**	1	4.982	193	167	81
200		10	**721 200 119**	1	5.868	225	207	101
225		10	**721 200 120**	1	9.268	256	233	114
250		10	**721 200 121**	1	14.350	282	263	132
280		10	**721 200 122**	1	19.541	318	298	152
315		6	**721 200 123**	1	27.254	356	332	168
400		6	**721 200 125**	1	35.000	442	420	214

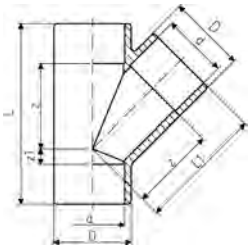




Tee 90° reducing PVC-U metric

d (mm)	d1 (mm)	PN (bar)	d-d (inch)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	D (mm)	L (mm)	L1 (mm)
25	20	16		**721 200 134**	10	0.038	14	14	33	33	30
32	20	16		**721 200 141**	10	0.061	17	17	41	39	33
32	25	16		**721 200 138**	10	0.063	17	17	41	39	36
40	20	16		**721 200 155**	10	0.103	23	23	50	49	39
40	25	16		**721 200 151**	10	0.107	23	23	50	49	42
40	32	16		**721 200 147**	10	0.109	23	23	50	49	45
50	20	16		**721 200 009**	5	0.179	28	28	62	59	44
50	25	16		**721 200 010**	5	0.183	28	28	62	59	47
50	32	16		**721 200 164**	5	0.189	28	28	62	59	50
50	40	16		**721 200 161**	5	0.208	28	28	62	59	54
63	25	16		**721 200 011**	10	0.332	35	34	77	73	53
63	32	16		**721 200 178**	5	0.336	35	34	77	73	56
63	40	16		**721 200 174**	5	0.347	35	34	77	73	60
63	50	16		**721 200 170**	5	0.354	35	34	77	73	65
75	32	16		**721 200 181**	9	0.535	40	41	92	84	63
75	40	16		**721 200 182**	9	0.555	40	41	92	84	67
75	50	16		**721 200 183**	8	0.541	40	41	92	84	72
75	63	16		**721 200 184**	8	0.570	40	41	92	84	79
90	32	16		**721 200 142**	6	0.855	46	55	110	97	77
90	50	16		**721 200 144**	6	0.907	46	55	110	97	86
90	63	16		**721 200 145**	5	0.931	46	55	110	97	93
90	75	16		**721 200 146**	5	0.959	46	55	110	97	99
110	32	16		**721 200 135**	3	1.441	56	67	133	117	89
110	50	16		**721 200 136**	3	1.471	56	67	133	117	98
110	63	16		**721 200 132**	3	1.522	56	65	133	117	103
110	75	16		**721 200 133**	3	1.543	56	65	133	117	109
110	90	16		**721 200 137**	3	1.634	56	65	133	117	116
125	50	16		**721 200 139**	4	1.970	64	75	151	133	106
125	90	16		**721 200 140**	4	2.200	64	75	151	133	126
140	50	16		**721 200 148**	1	3.235	72	82	172	148	113
140	75	16	5 - 2 ½	**721 200 149**	1	3.319	72	78	172	148	122
140	110	16		**721 200 150**	1	3.422	72	74	172	148	135
160	110	16		**721 200 152**	1	4.305	81	81	192	167	142
200	110	10		**721 200 153**	1	8.782	107	131	232	213	192
200	160	10		**721 200 154**	1	8.036	107	106	232	213	192
225	110	10		**721 200 156**	1	10.619	120	143	257	239	204
225	160	10		**721 200 157**	1	9.760	120	119	257	239	205
250	160	10		**721 200 159**	1	14.520	132	151	282	263	237
250	200	10		**721 200 162**	1	12.213	132	131	282	263	237
280	160	10		**721 200 165**	1	18.402	120	180	318	266	266
280	225	10		**721 200 167**	1	16.145	120	148	318	266	268
315	160	6		**721 200 169**	1	22.189	120	197	356	284	283
315	225	6		**721 200 172**	1	20.154	120	165	356	284	284
400	225	6		**721 200 176**	1	40.000	163	258	442	369	377
400	315	6		**721 200 180**	1	35.000	163	213	442	369	377

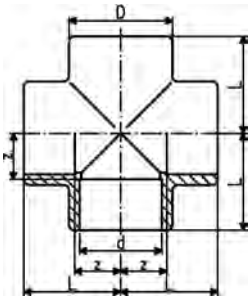




Tee 45° PVC-U metric

d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	D (mm)	L (mm)	L1 (mm)
10		10	**721 250 103**	100	0.013	18	4	16	46	30
12		10	**721 250 104**	100	0.014	21	4	18	49	33
16		10	**721 250 105**	100	0.022	25	5	23	58	39
20		10	**721 250 106**	10	0.035	30	6	28	68	46
25		10	**721 250 107**	10	0.056	36	9	33	83	55
32		10	**721 250 108**	10	0.096	45	10	41	99	67
40		10	**721 250 109**	10	0.159	56	10	50	118	82
50		10	**721 250 110**	8	0.265	66	12	60	140	97
63		10	**721 250 111**	5	0.439	85	14	74	175	123
75	2 ½	6	**721 250 112**	5	0.816	101	18	91	207	145
90		6	**721 250 113**	1	1.275	122	20	107	245	173
110		6	**721 250 114**	3	2.579	149	27	134	298	210
125		6	**721 250 115**	2	3.616	167	30	147	335	236
140	5	6	**721 250 116**	1	5.628	190	34	168	376	266
160		6	**721 250 117**	1	7.187	213	41	190	428	300
200		6	**721 250 119**	1	12.314	265	48	232	527	372
225		6	**721 250 120**	1	15.735	296	54	260	590	416
250		6	**721 250 121**	1	20.350	330	60	286	654	462

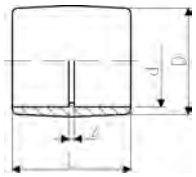




Cross PVC-U metric

d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
10		16	**721 300 103**	100	0.009	16	19	7
12		16	**721 300 104**	100	0.010	18	20	8
16		16	**721 300 105**	100	0.020	23	24	10
20		16	**721 300 106**	10	0.036	29	27	11
25		16	**721 300 107**	10	0.054	35	33	14
32		16	**721 300 108**	10	0.092	43	39	17
40		16	**721 300 109**	5	0.155	52	49	23
50		16	**721 300 110**	5	0.259	63	59	28
63		16	**721 300 111**	5	0.482	79	72	34
75	2 ½	10	**721 300 112**	3	0.725	92	83	40
90		10	**721 300 113**	4	1.221	106	97	48
110		10	**721 300 114**	4	2.111	128	117	59

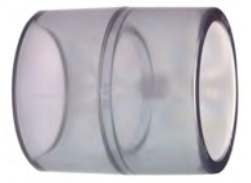


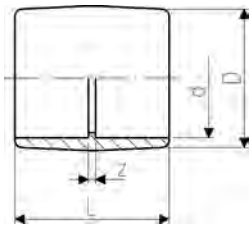


Socket equal PVC-U metric

[1] Socket d355 and d400 fabricated from pipe. The socket length can vary up to +/- 20mm

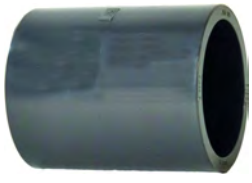
	d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
	6		16	**721 910 101**	10	0.004	3	12	27
	8		16	**721 910 102**	10	0.005	3	14	27
	10		16	**721 910 103**	1	0.004	3	16	27
	12		16	**721 910 104**	1	0.004	3	19	27
	16		16	**721 910 105**	10	0.006	3	22	31
	20		16	**721 910 106**	10	0.011	3	26	35
	25		16	**721 910 107**	10	0.015	3	32	41
	32		16	**721 910 108**	10	0.026	3	39	47
	40		16	**721 910 109**	10	0.045	3	48	55
	50		16	**721 910 110**	10	0.064	3	58	65
	63		16	**721 910 111**	10	0.118	3	73	79
	75	2 ½	16	**721 910 112**	10	0.188	4	87	92
	90		16	**721 910 113**	10	0.328	5	105	107
	110		16	**721 910 114**	6	0.554	6	128	128
	125		16	**721 910 115**	3	0.825	7	142	145
	140	5	16	**721 910 116**	2	1.118	7	162	159
	160		16	**721 910 117**	2	1.540	8	183	180
	200		10	**721 910 119**	1	2.559	9	221	221
	225		10	**721 910 120**	2	3.519	10	253	248
	250		10	**721 910 121**	1	5.394	16	284	284
	280		10	**721 910 122**	1	8.312	16	321	314
	315		6	**721 910 123**	1	10.388	16	356	348
1	355		6	**721 910 124**	0	10.706	68	383	480
1	400		6	**721 910 125**	0	11.326	73	425	531

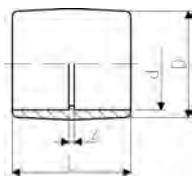




Socket equal PVC-U transparent metric

d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
16	16	**752 910 105**	10	0.009	3	23	31
20	16	**752 910 106**	1	0.012	3	27	35
25	16	**752 910 107**	1	0.016	3	32	41
32	16	**752 910 108**	1	0.027	3	40	47
40	16	**752 910 109**	1	0.061	3	52	55
50	16	**752 910 110**	1	0.068	3	60	65
63	16	**752 910 111**	5	0.115	3	75	79





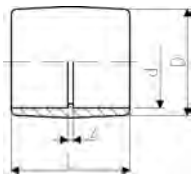
Adaptor socket PVC-U metric Inch/BS

Model:

- With solvent cement sockets metric and BS inch

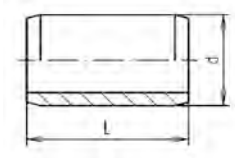
d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
16	⅜	16	**721 913 105**	10	0.010	5	23	35
20	½	16	**721 913 106**	10	0.012	5	27	38
25	¾	16	**721 913 107**	10	0.020	5	33	45
32	1	16	**721 913 108**	10	0.031	5	41	51
40	1 ¼	16	**721 913 109**	10	0.054	5	51	60

table continued on the next page



d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
50	1 ½	16	**721 913 110**	10	0.074	4	59	65
63	2	16	**721 913 111**	5	0.155	5	75	79
90	3	16	**721 913 113**	10	0.340	6	104	108
110	4	16	**721 913 115**	5	0.488	4	128	128





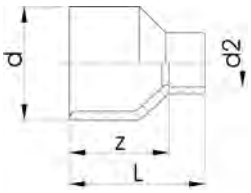
Barrel nipple PVC-U metric

Model:

- With solvent cement spigots on both sides
- Overall length L = 2 x socket length
- For the shortest possible distance between fittings

d (mm)	d (inch)	PN (bar)	Code	Weight (kg)	L (mm)
16		16	**721 900 905**	0.002	28
20		16	**721 900 906**	0.005	32
25		16	**721 900 907**	0.009	38
32		16	**721 900 908**	0.015	44
40		16	**721 900 909**	0.027	52
50		16	**721 900 910**	0.048	62
63		16	**721 900 911**	0.092	76
75	2 ½	16	**721 900 912**	0.156	88
90		16	**721 900 913**	0.260	102
110		16	**721 900 914**	0.455	122
125		16	**721 900 915**	0.673	138
140	5	16	**721 900 916**	0.932	152
160		16	**721 900 917**	1.565	192
200		10	**721 900 919**	1.779	212
225		10	**721 900 920**	2.566	238





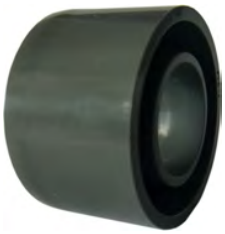
Reducing bush long PVC-U metric

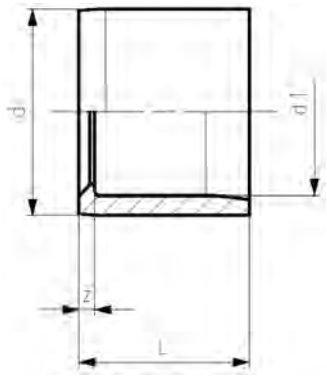
Model:

- With solvent cement spigot and socket metric

d (mm)	d2 (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)
8	6	16	**721 910 323**	10	0.003	15	27
10	6	16	**721 910 326**	10	0.003	15	27
10	8	16	**721 910 325**	10	0.003	15	27
20	16	16	**721 910 334**	10	0.009	21	35
25	20	16	**721 910 337**	10	0.014	25	41
32	25	16	**721 910 341**	10	0.024	30	49
40	32	16	**721 910 346**	10	0.044	36	58
50	40	16	**721 910 352**	10	0.074	44	70
63	50	16	**721 910 358**	5	0.148	54	85
75	63	16	**721 910 364**	5	0.211	62	100
90	75	16	**721 910 370**	8	0.335	74	118
140	110	16	**721 910 385**	2	0.808	111	172







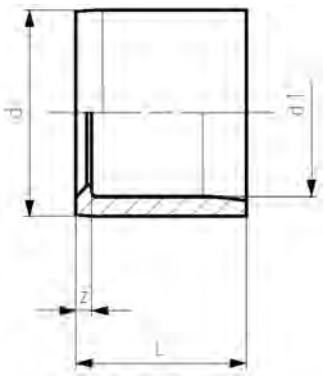
Reducing bush short PVC-U metric

Model:

- With solvent cement spigot and socket metric

	d (mm)	d1 (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)
*	12	8	16	**721 900 329**	1	0.002	2	14
*	16	12	16	**721 900 331**	10	0.002	2	14
*	20	16	16	**721 900 334**	10	0.002	2	16
*	25	20	16	**721 900 337**	10	0.004	3	19
*	32	20	16	**721 900 342**	10	0.014	6	22
*	32	25	16	**721 900 341**	10	0.009	3	22
	40	20	16	**721 900 348**	10	0.021	10	26
	40	25	16	**721 900 347**	10	0.021	7	26
*	40	32	16	**721 900 346**	10	0.016	4	26
	50	20	16	**721 900 355**	10	0.037	15	31
	50	25	16	**721 900 354**	10	0.034	12	31
	50	32	16	**721 900 353**	10	0.036	9	31
*	50	40	16	**721 900 352**	10	0.030	5	31
	63	32	16	**721 900 360**	10	0.064	16	38
	63	40	16	**721 900 359**	10	0.067	12	38
*	63	50	16	**721 900 358**	10	0.058	7	38
	75	50	16	**721 900 365**	10	0.109	13	44
*	75	63	16	**721 900 364**	10	0.078	6	44
	90	50	16	**721 900 372**	10	0.181	20	51
	90	63	16	**721 900 371**	12	0.183	13	51
*	90	75	16	**721 900 370**	10	0.135	7	51
	110	50	16	**721 900 379**	5	0.316	30	61
	110	63	16	**721 900 378**	5	0.308	23	61
	110	75	16	**721 900 377**	20	0.295	17	61
*	110	90	16	**721 900 376**	5	0.259	10	61
	125	90	16	**721 900 381**	5	0.465	18	69
*	125	110	16	**721 900 380**	5	0.267	8	69
	140	90	16	**721 900 386**	5	0.562	25	76
*	140	110	16	**721 900 385**	5	0.605	15	76
*	140	125	16	**721 900 384**	5	0.331	7	76
	160	90	16	**721 900 391**	6	0.751	35	86
	160	110	16	**721 900 390**	6	0.883	25	86
*	160	140	16	**721 900 388**	5	0.551	10	86
	200	110	10	**721 900 393**	3	1.985	45	108
	200	125	10	**721 900 325**	3	2.024	37	108
	200	140	10	**721 900 394**	3	1.928	29	108
*	200	160	10	**721 900 392**	2	1.085	20	108
	225	110	10	**721 900 397**	4	2.544	57	120
	225	125	10	**721 900 399**	4	2.563	49	120
	225	140	10	**721 900 398**	4	2.609	41	120
	225	160	10	**721 900 396**	2	2.199	31	119
*	225	200	10	**721 900 181**	9	1.360	13	119
	250	125	10	**721 900 326**	4	3.150	11	131
	250	140	10	**721 900 300**	4	3.200	54	133
	250	160	10	**721 900 301**	4	3.390	44	133
*	250	200	10	**721 900 302**	4	3.198	24	133
*	250	225	10	**721 900 303**	4	1.686	11	133
	280	140	10	**721 900 307**	1	4.157	69	148
	280	160	10	**721 900 308**	1	4.170	60	148
	280	200	10	**721 900 304**	1	4.577	39	148
*	280	225	10	**721 900 305**	1	4.409	27	146
*	280	250	10	**721 900 306**	1	2.515	14	148
	315	160	6	**721 900 313**	1	5.188	77	166
	315	200	6	**721 900 309**	1	5.480	57	166
	315	225	6	**721 900 310**	1	6.035	44	166
*	315	250	6	**721 900 311**	1	6.481	32	166
*	315	280	6	**721 900 312**	1	4.055	28	167
	355	315	6	**721 900 315**	1	5.792	23	206

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	d (mm)	d1 (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)
	400	250	6	**721 900 319**	1	11.528	60	206
	400	280	6	**721 900 320**	1	11.366	60	206
*	400	315	6	**721 900 321**	1	13.006	42	206
*	400	355	6	**721 900 322**	1	7.524	22	206

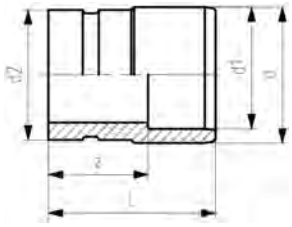


Cap PVC-U metric

d (mm)	d (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)
12		16	**721 960 104**	10	0.004	19	15
16		16	**721 960 105**	10	0.005	23	21
20		16	**721 960 106**	10	0.008	27	24
25		16	**721 960 107**	10	0.013	33	28
32		16	**721 960 108**	10	0.020	40	32
40		16	**721 960 109**	10	0.029	47	37
50		16	**721 960 110**	10	0.051	58	45
63		16	**721 960 111**	5	0.095	73	56
75	2 ½	16	**721 960 112**	5	0.152	87	65
90		16	**721 960 113**	5	0.269	105	77
110		16	**721 960 114**	12	0.457	128	94
140	5	10	**721 960 116**	10	1.036	164	114
160		10	**721 960 117**	2	1.534	188	130
200		10	**721 960 119**	3	2.614	230	170
225		10	**721 960 120**	2	3.320	257	185
280		10	**721 960 122**	1	6.200	318	230
315		6	**721 960 123**	1	8.500	356	255

Adaptor fittings





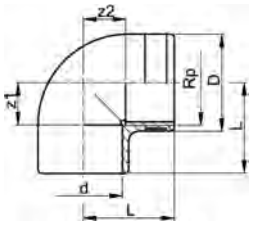
Adaptor fitting PVC-U metric - Victaulic

Model:

- With solvent cement spigot and socket metric
- For metal couplings (type Victaulic)

d (mm)	d1 (mm)	d2- victaulic (inch)	PN (bar)	Code	SP	Weight (kg)	L (mm)	z (mm)
50	40	1 1/2	10	**721 910 090**	50	0.150	71	45
63	50	2	10	**721 910 091**	50	0.200	78	47
75	63	2 1/2	10	**721 910 092**	50	0.250	84	46





Elbow 90° PVC-U metric Rp

Model:

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L (mm)
12	¼	16	**721 100 204**	10	0.010	7	7	20	19
16	⅜	16	**721 100 205**	10	0.015	9	9	25	23
20	½	16	**721 100 206**	10	0.023	13	11	30	27
25	¾	16	**721 100 207**	10	0.035	16	15	35	33
32	1	16	**721 100 208**	10	0.060	19	19	45	39
40	1 ¼	16	**721 100 209**	10	0.122	23	27	55	50
50	1 ½	16	**721 100 210**	5	0.187	27	36	62	58
63	2	16	**721 100 211**	10	0.324	33	46	75	73





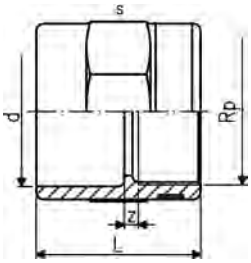
Tee 90° PVC-U metric Rp

Model:

- With solvent cement socket metric, branch with parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	D1 (mm)	L (mm)
12	¼	16	**721 200 204**	10	0.015	7	7	17	20	19
16	⅜	16	**721 200 205**	10	0.027	9	9	21	25	23
20	½	16	**721 200 206**	10	0.029	11	13	26	30	29
25	¾	16	**721 200 207**	10	0.043	14	15	32	35	33
32	1	16	**721 200 208**	10	0.080	17	19	40	45	39
40	1 ¼	16	**721 200 209**	10	0.134	23	26	47	55	49
50	1 ½	16	**721 200 210**	5	0.212	27	36	59	59	59
63	2	16	**721 200 211**	5	0.379	33	46	74	75	71





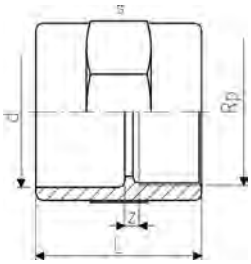
Adaptor socket PVC-U metric Rp

Model:

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
12	¼	16	**721 910 204**	10	0.010	4	27	22
16	⅜	16	**721 910 205**	10	0.016	5	31	27
20	½	16	**721 910 206**	10	0.025	5	36	32
25	¾	16	**721 910 207**	10	0.032	5	40	36
32	1	16	**721 910 208**	10	0.057	5	45	46
40	1 ¼	16	**721 910 209**	10	0.087	5	51	55
50	1 ½	16	**721 910 210**	10	0.126	7	59	65
63	2	16	**721 910 211**	5	0.206	7	69	80





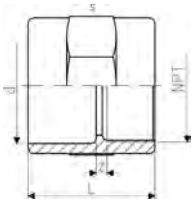
Adaptor socket PVC-U metric Rp

Model:

- With solvent cement socket metric and parallel female thread Rp
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
75	2 ½	10	**721 916 012**	10	0.220	7	82	90
90	3	10	**721 916 013**	5	0.365	9	94	110
110	4	10	**721 916 014**	5	0.536	9	110	130





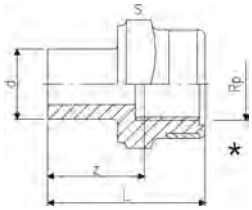
Adaptor socket PVC-U metric NPT

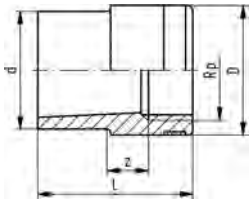
Model:

- With solvent cement socket metric and NPT (ASTM) taper female thread
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	NPT (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
20	½	10	**721 914 206**	10	0.021	5	35	32
25	¾	10	**721 914 207**	10	0.028	6	40	36
32	1	10	**721 914 208**	10	0.049	6	45	46
40	1 ¼	10	**721 914 209**	10	0.076	6	51	55
50	1 ½	10	**721 914 210**	10	0.110	10	59	65
63	2	10	**721 914 211**	5	0.175	10	69	80







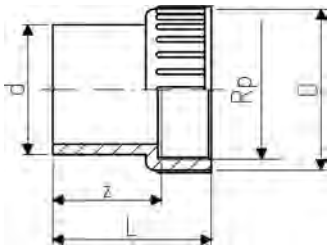
Reducing bush PVC-U metric Rp

Model:

- With solvent cement spigot metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

	d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)	s (mm)
*	12	¼	16	**721 910 404**	10	0.008	0	20	27	22
	20	⅜	16	**721 910 434**	10	0.014	7	25	35	
	25	½	16	**721 910 437**	10	0.021	7	30	41	
	32	¾	16	**721 910 441**	10	0.032	15	35	48	
	40	1	16	**721 910 446**	10	0.058	20	45	56	
	50	1 ¼	16	**721 910 452**	10	0.097	20	55	66	
	63	1 ½	16	**721 910 458**	5	0.151	10	62	77	





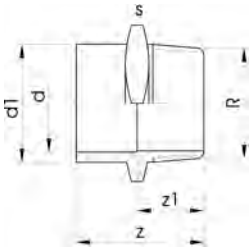
Adaptor PVC-U metric Rp

Model:

- With solvent cement spigot metric and parallel female thread Rp
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
20	½	10	**721 900 406**	10	0.012	22	28	37
25	¾	10	**721 900 407**	10	0.018	25	34	41
32	1	10	**721 900 408**	10	0.035	29	42	48
40	1 ¼	10	**721 900 409**	10	0.063	34	52	56
50	1 ½	10	**721 900 410**	10	0.097	40	62	61
63	2	10	**721 900 411**	5	0.170	49	77	74





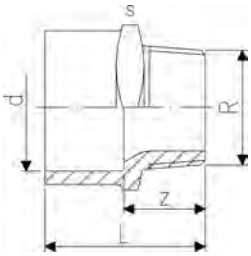
Adaptor socket nipple PVC-U metric R

Model:

- With solvent cement spigot/socket reducing metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	d1 (mm)	R (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	s (mm)
12	16	⅜	16	**721 910 555**	10	0.010	35	23	27
16	20	½	16	**721 910 556**	10	0.016	42	28	32
20	25	¾	16	**721 910 557**	10	0.023	47	31	36
25	32	1	16	**721 910 558**	10	0.040	54	35	46
32	40	1 ¼	16	**721 910 559**	10	0.061	60	38	55
40	50	1 ½	16	**721 910 560**	10	0.094	66	40	65
50	63	2	16	**721 910 561**	5	0.164	78	47	80





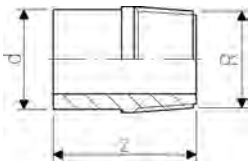
Adaptor bush equal PVC-U metric R

Model:

- With solvent cement socket metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (inch)	R (inch)	d (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
⅜	⅜	16	16	**721 910 705**	10	0.011	20	34	27
½	½	20	16	**721 910 706**	10	0.018	24	40	32
¾	¾	25	16	**721 910 707**	10	0.025	25	44	36
1	1	32	16	**721 910 708**	10	0.039	28	50	46
1 ¼	1 ¼	40	16	**721 910 709**	10	0.061	31	57	55
1 ½	1 ½	50	16	**721 910 710**	10	0.092	32	63	65
2	2	63	16	**721 910 711**	5	0.161	38	76	80
2 ½	2 ½	75	10	**721 910 712**	6	0.227	42	86	90
3	3	90	10	**721 910 713**	5	0.389	46	97	110
4	4	110	10	**721 910 714**	5	0.572	53	114	130





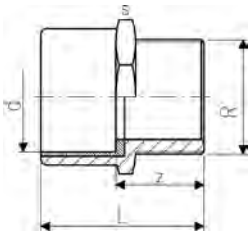
Adaptor nipple PVC-U metric R

Model:

- With solvent cement spigot metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	R (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)
16	⅜	10	**721 913 505**	10	0.006	31
20	½	10	**721 913 506**	10	0.010	35
25	¾	10	**721 913 507**	10	0.017	40
32	1	10	**721 913 508**	10	0.026	46





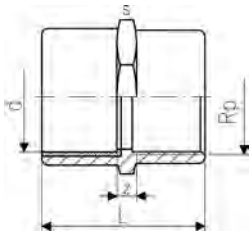
Adaptor socket brass/PVC-U metric R

Model:

- Brass with taper male thread R and PVC-U solvent cement socket insert, metric
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	R (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
40	1 ¼	16	**720 910 709**	1	0.437	36	64	58
50	1 ½	16	**720 910 710**	1	0.671	38	72	70
63	2	16	**720 910 711**	1	1.035	43	84	85



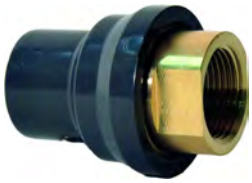


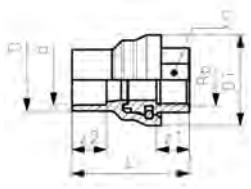
Adaptor socket brass/PVC-U metric Rp

Model:

- Brass with parallel female thread Rp and PVC-U solvent cement socket insert, metric
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
40	1 ¼	16	**720 910 209**	1	0.482	17	66	58
50	1 ½	16	**720 910 210**	1	0.737	19	74	70
63	2	16	**720 910 211**	1	1.130	19	86	83





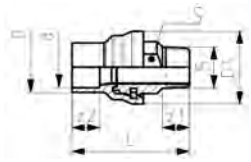
Adaptor Fitting PVC-U/brass Rp

Model:

- Adaptor fitting equally suitable as socket and spigot
- Brass with parallel female thread Rp
- Gasket: O-ring EPDM

d (mm)	D (mm)	PN (bar)	Rp (inch)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D1 (mm)	L (mm)	S (mm)
20	25	16	½	**721 950 106**	10	0.098	17.0	16.5	40	54.5	25
25	32	16	¾	**721 950 107**	5	0.181	18.5	19.0	50	65.2	30
32	40	16	1	**721 950 108**	5	0.270	21.5	22.5	59	76.5	36





Adaptor Fitting PVC-U/brass R

Model:

- Adaptor fitting equally suitable as socket and spigot
- Brass with taper male thread R
- Gasket: O-ring EPDM

d (mm)	D (mm)	PN (bar)	R (inch)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D1 (mm)	L (mm)	S (mm)
20	25	16	½	**721 950 606**	10	0.129	17	17	40	70	25
25	32	16	¾	**721 950 607**	5	0.232	19	19	50	83	30
32	40	16	1	**721 950 608**	5	0.390	22	23	59	96	36





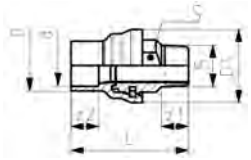
Adaptor Fitting PVC-U/stainless steel Rp

Model:

- Adaptor fitting equally suitable as socket and spigot
- Stainless steel WN 1.4404 (316L) with parallel female thread Rp
- Gasket: O-ring EPDM

d (mm)	D (mm)	PN (bar)	Rp (inch)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D1 (mm)	L (mm)	S (mm)
20	25	16	½	**721 940 106**	10	0.095	17	17	40	70	25
25	32	16	¾	**721 940 107**	5	0.171	19	19	50	83	30
32	40	16	1	**721 940 108**	5	0.262	22	23	59	96	36





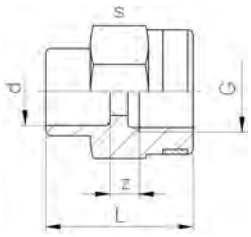
Adaptor Fitting PVC-U/stainless steel R

Model:

- Adaptor fitting equally suitable as socket and spigot
- Stainless steel with taper male thread R
- Gasket: O-ring EPDM

PN (bar)	D (mm)	R (inch)	d (mm)	Code	SP	Weight (kg)	D1 (mm)	S (mm)	z2 (mm)	z1 (mm)	L (mm)
16	25	½	20	**721 940 606**	10	0.120	40	25	17	17	70
16	32	¾	25	**721 940 607**	5	0.213	50	30	19	19	83
16	40	1	32	**721 940 608**	5	0.320	59	36	23	22	96





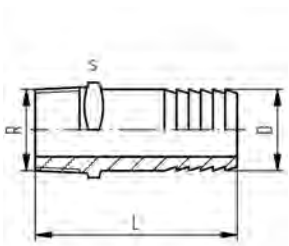
Manometer adaptor sockets PVC-U metric G

Model:

- With solvent cement socket metric and female thread G
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	G (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
12	¼	16	**721 916 204**	10	0.010	4	27	22
16	½	16	**721 916 206**	10	0.026	7	36	32





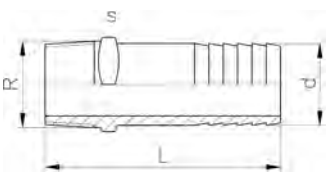
Hose connector PVC-U R

Model:

- With taper male thread R
- With parallel hose connector
- Do not use thread sealing pastes that are harmful to PVC-U

R (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	s (mm)
¼	10	**721 960 704**	10	0.003	12	59	14
⅜	10	**721 960 705**	10	0.006	16	67	19
½	10	**721 960 706**	10	0.019	20	86	22
¾	10	**721 960 707**	10	0.026	25	92	27
1	10	**721 960 708**	5	0.048	30	103	36
1 ¼	10	**721 960 709**	5	0.079	40	115	46





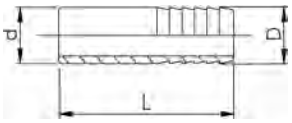
Hose connector PVC-U R reduced

Model:

- With taper male thread R
- With parallel hose connector
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

R (inch)	Code	SP	Weight (kg)	s (mm)	d (mm)	L (mm)
½	**721 961 706**	10	0.012	22	14	70
¾	**721 961 707**	10	0.021	27	20	80
1	**721 961 708**	5	0.042	36	27	90





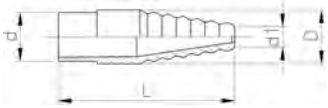
Hose connector PVC-U metric

Model:

- With solvent cement spigot metric and parallel hose connection

d (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)
10	16	**721 960 403**	10	0.002	8	47
12	16	**721 960 404**	10	0.003	12	51
16	16	**721 960 405**	10	0.008	16	57
20	16	**721 960 406**	10	0.016	20	73
25	16	**721 960 407**	10	0.021	25	79
32	16	**721 960 408**	10	0.035	30	89
32	16	**721 960 508**	10	0.035	32	89
40	16	**721 960 409**	5	0.060	40	100
50	16	**721 960 410**	5	0.112	50	105
63	16	**721 960 411**	5	0.180	60	120





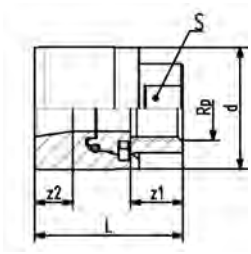
Hose connector PVC-U metric

Model:

- With solvent cement spigot metric and tapered hose connection

d (mm)	PN (bar)	Code	SP	Weight (kg)	d1 (mm)	D (mm)	L (mm)
10	16	**721 960 303**	10	0.004	6	12	51
12	16	**721 960 304**	10	0.004	6	12	51
16	16	**721 960 305**	10	0.007	8	16	57
20	16	**721 960 306**	10	0.016	11	22	73





Adaptor fitting PVC-U/brass

Model:

- Brass with parallel female thread Rp
- Gasket: O-ring EPDM

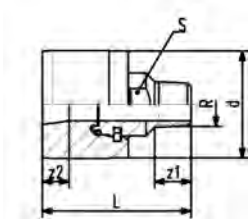
d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)
40	½	10	**721 950 131**	10	0.279	17.0	12.4	48.2	25
50	½	10	**721 950 132**	5	0.355	17.0	12.5	54.2	25
50	¾	10	**721 950 133**	10	0.362	18.5	13.0	54.9	30
63	½	10	**721 950 134**	10	0.526	17.0	7.1	66.2	25
63	¾	10	**721 950 135**	5	0.531	18.5	13.0	66.9	30
63	1	10	**721 950 136**	5	0.542	21.5	18.9	70.7	36



Adaptor fitting PVC-U/brass

Model:

- Brass with taper male thread R
- Gasket: O-ring EPDM



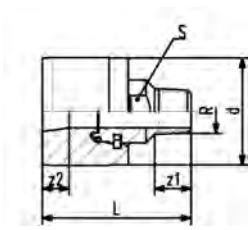
d (mm)	R (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)
40	½	10	**721 950 631**	10	0.352	17.0	12.4	63.2	25
50	½	10	**721 950 632**	10	0.438	17.0	12.5	69.2	25
50	¾	10	**721 950 633**	10	0.442	18.5	13.0	72.9	30
63	½	10	**721 950 634**	10	0.498	17.0	7.1	81.2	25
63	¾	10	**721 950 635**	10	0.512	18.5	13.0	84.9	30
63	1	10	**721 950 636**	10	0.521	21.5	18.9	89.7	36



Adaptor fitting PVC-U/stainless steel

Model:

- Stainless steel WN 1.4404 (316L) with taper male thread R
- Gasket: O-ring EPDM



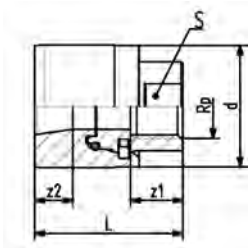
d (mm)	R (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)
40	½	10	**721 940 631**	10	0.335	17.0	12.4	63.2	25
50	½	10	**721 940 632**	10	0.402	17.0	12.5	69.2	25
50	¾	10	**721 940 633**	10	0.414	18.5	13.0	72.9	30
63	½	10	**721 940 634**	10	0.521	17.0	7.1	81.2	25
63	¾	10	**721 940 635**	10	0.533	18.5	13.0	84.9	30
63	1	10	**721 940 636**	10	0.542	21.5	18.9	89.7	36



Adaptor fitting PVC-U/stainless steel

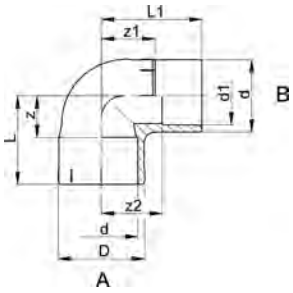
Model:

- Stainless steel WN 1.4404 (316L) with parallel female thread Rp
- Gasket: O-ring EPDM



d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	L (mm)	S (mm)
40	½	10	**721 940 131**	10	0.267	17.0	12.4	63.2	25
50	½	10	**721 940 132**	10	0.345	17.0	12.5	69.2	25
50	¾	10	**721 940 133**	10	0.352	18.5	13.0	72.9	30
63	½	10	**721 940 134**	10	0.432	17.0	7.1	81.2	25
63	¾	10	**721 940 135**	10	0.441	18.5	13.0	84.9	30
63	1	10	**721 940 136**	10	0.453	21.5	18.9	89.7	36





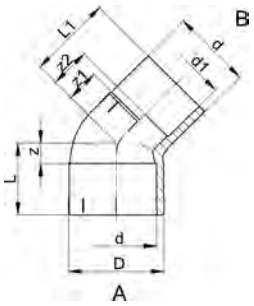
PRO-FIT elbow 90° PVC-U metric

Model:

- Outlet: A = solvent cemented socket metric
- Outlet: B = solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

d (mm)	d1 (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)
20	16	16	**721 100 306**	10	0.011	11	16	18	25	27	32
25	20	16	**721 100 307**	10	0.020	14	18	21	31	33	37
32	25	16	**721 100 308**	10	0.038	17	22	25	38	39	44
40	32	16	**721 100 309**	10	0.069	23	30	34	47	49	56
50	40	16	**721 100 310**	10	0.122	26	36	41	58	57	67
63	50	16	**721 100 311**	10	0.237	33	45	52	73	71	83





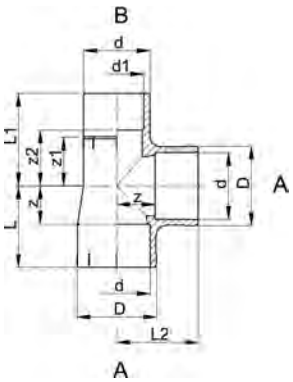
PRO-FIT elbow 45° PVC-U metric

Model:

- Outlet: A = solvent cemented socket metric
- Outlet: B = solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

d (mm)	d1 (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)
20	16	16	**721 150 306**	10	0.010	5	9	11	25	21	25
25	20	16	**721 150 307**	10	0.015	6	11	14	31	25	30
32	25	16	**721 150 308**	10	0.027	8	13	16	38	30	35
40	32	16	**721 150 309**	5	0.053	10	17	21	47	36	43
50	40	16	**721 150 310**	5	0.090	12	18	23	58	43	49
63	50	16	**721 150 311**	5	0.175	14	23	30	73	52	61





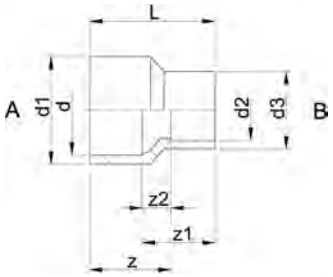
PRO-FIT tee 90° equal PVC-U metric

Model:

- Outlet: A = solvent cemented socket metric
- Outlet: B = solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

d (mm)	d1 (mm)	PN (bar)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
20	16	16	**721 200 306**	10	0.017	11	17	19	25	27	33	27
25	20	16	**721 200 307**	10	0.022	14	19	22	31	33	38	33
32	25	16	**721 200 308**	10	0.051	17	24	27	38	39	46	39
40	32	16	**721 200 309**	10	0.098	23	30	34	47	47	56	49
50	40	16	**721 200 310**	10	0.164	26	36	41	58	57	67	57
63	50	16	**721 200 311**	10	0.329	33	45	52	73	71	83	71





PRO-FIT reducing bush PVC-U metric

Model:

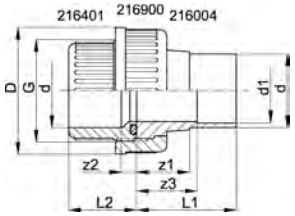
- Outlet: A and B = solvent cemented spigot in combination with reducing socket metric

d (mm)	d1 (mm)	d3 (mm)	PN (bar)	d2 (mm)	Code	SP	Weight (kg)	z (mm)	z1 (mm)	z2 (mm)	L (mm)
10	14	12	16	8	**721 910 903**	10	0.003	15	15	3	27
12	16	12	16	8	**721 910 905**	10	0.004	18	18	6	30
12	16	16	16	10	**721 910 906**	10	0.004	18	18	6	30
16	20	16	16	10	**721 910 908**	10	0.003	21	19	7	33
16	20	16	16	12	**721 910 909**	10	0.004	21	19	7	33
20	25	16	16	12	**721 910 910**	10	0.008	25	21	9	37
20	25	20	16	16	**721 910 911**	10	0.008	25	23	9	39
25	32	16	16	12	**721 910 912**	10	0.014	30	23	11	42
25	32	20	16	16	**721 910 913**	10	0.015	30	26	12	44
25	32	25	16	20	**721 910 914**	10	0.017	30	27	11	46
32	40	20	16	16	**721 910 915**	10	0.025	36	28	14	50
32	40	25	16	20	**721 910 916**	10	0.026	36	30	14	52
32	40	32	16	25	**721 910 917**	10	0.031	36	33	14	55
40	50	25	16	20	**721 910 918**	10	0.045	44	34	18	60
40	50	32	16	25	**721 910 919**	10	0.052	44	37	18	63
40	50	40	16	32	**721 910 920**	10	0.058	44	40	18	66
50	63	32	16	25	**721 910 921**	5	0.092	54	42	23	73
50	63	40	16	32	**721 910 922**	5	0.098	54	45	23	76
50	63	50	16	40	**721 910 923**	5	0.111	54	49	23	80
63	75	40	16	32	**721 910 924**	5	0.127	62	46	24	84
63	75	50	16	40	**721 910 925**	5	0.139	62	50	24	88
63	75	63	16	50	**721 910 926**	1	0.167	62	55	24	93
75	90	50	16	40	**721 910 927**	10	0.224	74	56	30	100
75	90	63	16	50	**721 910 928**	10	0.253	74	61	30	105
75	90	75	16	63	**721 910 929**	10	0.265	74	68	30	112





*



PRO-FIT union PVC-U metric

Model:

- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Solvent socket metric
- Gasket: O-Ring EPDM code no. 748 410 005-011; FKM: 749 410 005-011

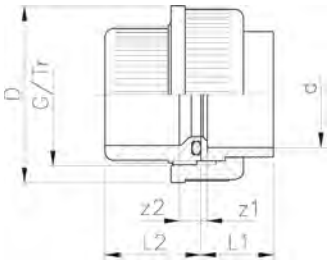
	d (mm)	d1 (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
*	16	12	16	**721 510 305**	10	0.029	**721 510 330**	10	0.029
*	20	16	16	**721 510 306**	10	0.046	**721 510 331**	10	0.044
*	25	20	16	**721 510 307**	10	0.073	**721 510 332**	10	0.073
*	32	25	16	**721 510 308**	10	0.097	**721 510 333**	10	0.095
	40	32	16	**721 510 309**	10	0.169	**721 510 334**	10	0.171
	50	40	16	**721 510 310**	10	0.250	**721 510 335**	10	0.250
	63	50	16	**721 510 311**	5	0.437	**721 510 336**	10	0.449

	d (mm)	G (inch)	z1 (mm)	z2 (mm)	z3 (mm)	D (mm)	L1 (mm)	L2 (mm)
*	16	¾	22	10	24	35	36	24
*	20	1	24	10	26	43	40	26
*	25	1 ¼	25	10	28	51	44	29
*	32	1 ½	27	10	30	58	49	33
	40	2	31	12	35	74	57	39
	50	2 ¼	35	14	40	83	66	46
	63	2 ¾	39	18	46	100	77	58

Unions/tank adapters

Unions for solvent cement jointing





Union for solvent cement jointing PVC-U metric

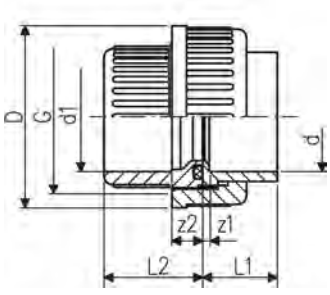
Model:

- Union End: solvent socket metric
- Union Bush: Solvent socket metric
- Jointing face: With O-ring groove
- Gasket: O-Ring EPDM code no. 748 410 004-016; d90 748 410 248; FKM: 749 410 004-016; d90 749 410 248

d (mm)	d (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
10		16	**721 510 103**	10	0.021	**721 510 128**	10	0.020
12		16	**721 510 104**	10	0.020	**721 510 129**	10	0.019
16		16	**721 510 105**	10	0.025	**721 510 130**	10	0.025
20		16	**721 510 106**	10	0.041	**721 510 131**	10	0.042
25		16	**721 510 107**	10	0.058	**721 510 132**	10	0.058
32		16	**721 510 108**	10	0.083	**721 510 133**	10	0.084
40		16	**721 510 109**	10	0.147	**721 510 134**	10	0.152
50		16	**721 510 110**	5	0.203	**721 510 135**	2	0.207
63		16	**721 510 111**	5	0.356	**721 510 136**	5	0.361
75	2 ½	10	**721 510 112**	2	0.614	**721 510 137**	2	0.621
90		10	**721 510 313**	2	0.920	**721 510 338**	2	0.929
110		10	**721 510 114**	1	1.434	**721 510 139**	1	1.492

d (mm)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G/Tr (inch)
10	3	10	31	15	22	5/8
12	3	10	31	15	22	5/8
16	3	10	35	17	24	3/4
20	3	10	43	19	26	1
25	3	10	51	22	29	1 1/4
32	3	10	58	25	33	1 1/2
40	3	12	72	29	39	2
50	3	14	83	34	46	2 1/4
63	3	18	100	41	58	2 3/4
75	3	18	135	47	62	Tr108x5
90	5	18	158	56	69	Tr128x5
110	5	11	188	66	72	Tr154x6





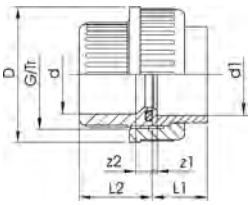
Adaptor union PVC-U metric Inch BS

Model:

- Union End: Solvent cement socket metric
- Union Bush: Solvent cement socket BS inch
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)

PN (bar)	d (mm)	d1 (inch)	Code	SP	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
15	16	⅜	**721 513 105**	10	0.025	¾	3	8	35	17	24
15	20	½	**721 513 106**	10	0.040	1	3	9	43	19	26
15	25	¾	**721 513 107**	10	0.065	1 ¼	3	9	51	22	29
15	32	1	**721 513 108**	10	0.090	1 ½	3	9	58	25	33
15	40	1 ¼	**721 513 109**	10	0.155	2	3	10	72	29	39
15	50	1 ½	**721 513 110**	5	0.200	2 ¼	3	10	83	34	46
15	63	2	**721 513 111**	5	0.341	2 ¾	3	10	100	41	58





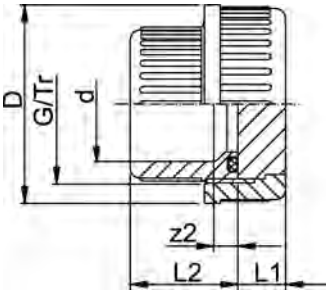
Union for solvent cement jointing PVC-U metric/ASTM

Model:

- Union End: Solvent cement socket ASTM
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)

d (mm)	d1 (inch)	PN (bar)	Code	SP	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
16	⅜	16	**721 514 105**	10	0.022	¾	3	10	35	22	24
20	½	16	**721 514 106**	10	0.042	1	3	10	43	25	26
25	¾	16	**721 514 107**	10	0.065	1 ¼	3	10	51	28	29
32	1	16	**721 514 108**	10	0.103	1 ½	3	10	58	32	33
40	1 ¼	16	**721 514 109**	10	0.174	2	3	12	72	35	39
50	1 ½	16	**721 514 110**	5	0.239	2 ¼	3	14	83	38	46
63	2	16	**721 514 111**	5	0.356	2 ¾	3	18	100	41	58





Union with union end blank PVC-U metric

Model:

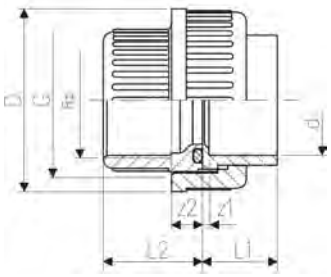
- Union Bush: Solvent socket metric
- Jointing face: With O-ring groove
- Gasket: O-Ring EPDM code no. 748 410 004-016; d90 748 410 248; FKM: 749 410 004-016; d90 749 410 248

d (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
10	16	**721 510 003**	10	0.020	**721 510 028**	10	0.020
12	16	**721 510 004**	10	0.020	**721 510 029**	10	0.020
16	16	**721 510 005**	10	0.026	**721 510 030**	10	0.026
20	16	**721 510 006**	10	0.041	**721 510 031**	10	0.041
25	16	**721 510 007**	10	0.068	**721 510 032**	10	0.068
32	16	**721 510 008**	10	0.095	**721 510 033**	10	0.095
40	16	**721 510 009**	10	0.159	**721 510 034**	10	0.159
50	16	**721 510 010**	5	0.227	**721 510 035**	5	0.227
63	16	**721 510 011**	10	0.392	**721 510 036**	10	0.405
75	10	**721 510 012**	2	0.679	**721 510 037**	2	0.693
90	10	**721 510 213**	2	1.022	**721 510 238**	2	1.022
110	10	**721 510 014**	1	1.556	**721 510 039**	1	1.573

d (mm)	z2 (mm)	L2 (mm)	D (mm)	L1 (mm)	G/Tr (inch)
10	9	22	31	10	5/8
12	9	22	31	15	5/8
16	10	24	35	10	3/4
20	10	26	43	11	1
25	10	29	51	11	1 1/4
32	10	33	58	12	1 1/2
40	12	39	72	13	2
50	14	46	83	16	2 1/4
63	18	58	100	18	2 3/4
75	18	62	135	22	Tr108x5
90	18	69	158	24	Tr128x5
110	11	72	188	26	Tr154x6

Adaptor unions





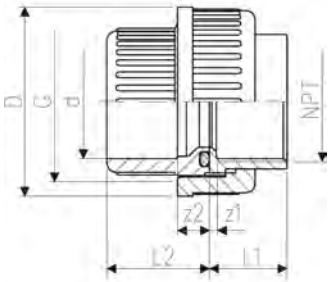
Adaptor union PVC-U metric Rp

Model:

- Union End: Solvent cement socket metric
- Union Bush: Parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 004-011
- Gasket: O-ring FKM code no. 749 410 004-011 (to be ordered separately)
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Rp (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
12	¼	10	**721 510 204**	10	0.019	⅝	3	12	31	15	22
16	⅜	10	**721 510 205**	10	0.020	¾	3	13	35	17	24
20	½	10	**721 510 206**	10	0.040	1	3	13	43	19	26
25	¾	10	**721 510 207**	10	0.057	1 ¼	3	14	51	22	29
32	1	10	**721 510 208**	10	0.084	1 ½	3	15	58	25	33
40	1 ¼	10	**721 510 209**	10	0.147	2	3	19	72	29	39
50	1 ½	10	**721 510 210**	2	0.218	2 ¼	3	26	83	34	46
63	2	10	**721 510 211**	2	0.383	2 ¾	3	33	100	41	58





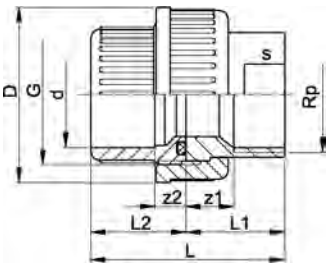
Adaptor union PVC-U metric NPT

Model:

- Union End: Taper female thread NPT (ASTM)
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	NPT (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
16	⅜	10	**721 514 205**	10	0.026	¾	4	10	35	17	24
20	½	10	**721 514 206**	10	0.042	1	2	10	43	19	26
25	¾	10	**721 514 207**	10	0.068	1 ¼	4	10	51	22	29
32	1	10	**721 514 208**	10	0.093	1 ½	4	10	58	25	33
40	1 ¼	10	**721 514 209**	2	0.150	2	6	12	72	29	39
50	1 ½	10	**721 514 210**	2	0.228	2 ¼	11	14	83	34	46
63	2	10	**721 514 211**	2	0.387	2 ¾	17	18	100	41	58





Adaptor union PVC-U/stainless steel metric Rp

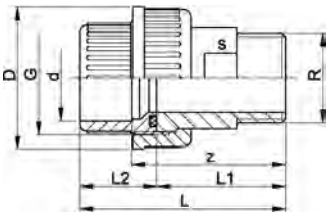
Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L), parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011

Rp (inch)	d (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
⅜	16	16	**721 540 205**	10	0.053	**721 540 230**	0	0.053
½	20	16	**721 540 206**	10	0.096	**721 540 231**	0	0.096
¾	25	16	**721 540 207**	5	0.154	**721 540 232**	0	0.134
1	32	16	**721 540 208**	5	0.212	**721 540 233**	0	0.212
1 ¼	40	16	**721 540 209**	2	0.356	**721 540 234**	0	0.343
1 ½	50	16	**721 540 210**	2	0.455	**721 540 235**	0	0.455
2	63	16	**721 540 211**	2	0.730	**721 540 236**	0	0.721

G (inch)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)
¾	9	10	35	43	19	24	19
1	11	10	43	50	24	26	24
1 ¼	11	10	51	55	26	29	29
1 ½	12	10	58	61	29	33	36
2	14	12	72	71	33	39	45
2 ¼	15	14	83	79	34	46	54
2 ¾	15	18	100	95	39	58	63





Adaptor union PVC-U/stainless steel metric R

Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L), taper male thread R
- Gasket: O-ring EPDM code no. 748 410 005-011

d (mm)	R (inch)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	⅜	16	**721 540 705**	10	0.073	**721 540 730**	0	0.073
20	½	16	**721 540 706**	10	0.126	**721 540 731**	0	0.126
25	¾	16	**721 540 707**	10	0.174	**721 540 732**	5	0.170
32	1	16	**721 540 708**	5	0.262	**721 540 733**	0	0.262
40	1 ¼	16	**721 540 709**	2	0.476	**721 540 734**	0	0.472
50	1 ½	16	**721 540 710**	2	0.535	**721 540 735**	0	0.535
63	2	16	**721 540 711**	2	0.934	**721 540 736**	0	0.931

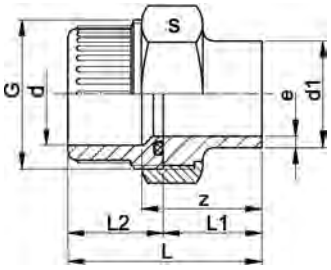
d (mm)	G (inch)	z (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)
16	¾	40	35	54	30	24	19
20	1	44	43	60	34	26	24
25	1 ¼	46	51	65	36	29	32
32	1 ½	50	58	72	40	33	37
40	2	58	72	84	46	39	48
50	2 ¼	62	83	93	48	46	54
63	2 ¾	73	100	111	55	58	69



Adaptor union PVC-U/stainless steel metric
Welding end

Model:

- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L) with welding end
- Union Nut: Stainless Steel WN 1.4404 (316L)
- Gasket: O-ring EPDM code no. 748 410 005-011



d (mm)	d1 (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	17	16	**721 545 505**	10	0.101	**721 545 530**	0	0.101
20	21	16	**721 545 506**	10	0.176	**721 545 531**	0	0.168
25	27	16	**721 545 507**	5	0.204	**721 545 532**	0	0.198
32	34	16	**721 545 508**	5	0.313	**721 545 533**	0	0.313
40	42	16	**721 545 509**	2	0.493	**721 545 534**	0	0.493
50	48	16	**721 545 510**	2	0.566	**721 545 535**	0	0.605
63	60	16	**721 545 511**	2	0.902	**721 545 536**	0	0.902

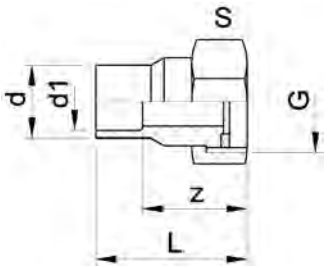
d (mm)	G (inch)	z (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	s (mm)
16	¾	28	42	18	24	1.6	32
20	1	32	48	22	26	2.0	41
25	1 ¼	33	52	23	29	2.0	46
32	1 ½	36	58	26	33	2.0	55
40	2	38	64	26	39	2.0	68
50	2 ¼	42	73	28	46	2.0	74
63	2 ¾	50	88	32	58	2.6	88



Tap connectors PVC-U/brass metric G

Model:

- Union End: PVC-U, solvent cement socket / spigot metric
- Union Nut: brass with female thread G
- Gasket: flat gasket EPDM code no. 748 400 030; 748 400 005-006



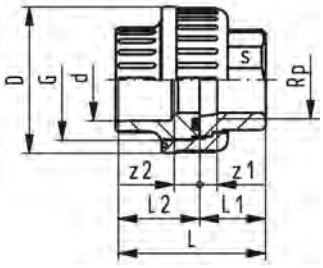
d (mm)	d1 (mm)	G (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)	s (mm)
16	12	½	16	**721 550 305**	10	0.031	22	34	24
20	16	¾	16	**721 550 306**	10	0.049	24	38	30
25	20	1	16	**721 550 307**	10	0.079	27	43	38



Adaptor union PVC-U/malleable iron galvanised metric Rp

Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: malleable iron with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248



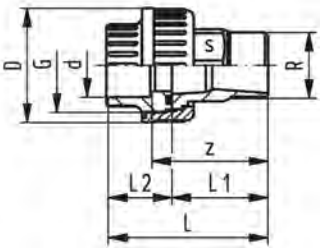
d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	G (inch)	s (mm)
20	½	16	**721 530 306**	10	0.073	43	48	22	26	9	10	1	25
25	¾	16	**721 530 307**	5	0.107	51	51	22	29	7	10	1 1/4	31
32	1	16	**721 530 308**	5	0.154	58	58	26	33	9	10	1 1/2	38
40	1 ¼	16	**721 530 309**	2	0.282	72	69	31	39	12	12	2	48
50	1 ½	16	**721 530 310**	2	0.377	83	78	33	46	14	14	2 1/4	54
63	2	16	**721 530 311**	2	0.594	100	91	35	58	11	18	2 3/4	67
75	2 ½	10	**721 530 312**	2	1.008	127	101	39	62	12	18	Tr 108x5	85
90	3	10	**721 530 313**	2	1.350	150	114	45	69	15	19	Tr 128x5	96



Adaptor union PVC-U/malleable iron galvanised metric R

Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Malleable iron with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248



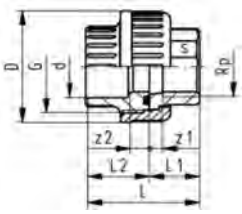
d (mm)	R (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	G (inch)	s (mm)
20	½	16	**721 530 806**	10	0.107	43	66	40	26	50	1	25
25	¾	16	**721 530 807**	5	0.159	51	72	43	29	53	1 1/4	31
32	1	16	**721 530 808**	5	0.213	58	80	48	33	58	1 1/2	38
40	1 ¼	16	**721 530 809**	2	0.426	72	95	57	39	69	2	48
50	1 ½	16	**721 530 810**	2	0.528	83	104	59	46	73	2 1/4	54
63	2	16	**721 530 811**	5	0.863	100	118	62	58	80	2 3/4	67
75	2 ½	10	**721 530 812**	2	1.441	127	137	75	62	93	Tr 108x5	85
90	3	10	**721 530 813**	1	1.873	150	149	80	69	99	Tr 128x5	96



Adaptor union PVC-U/brass metric Rp

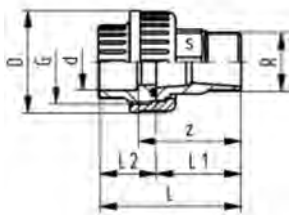
Model:

- Union Nut: PVC-U
- Union bush: Solvent cement socket metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248



d (mm)	Rp (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)	z1 (mm)	z2 (mm)	G (inch)
20	½	16	**721 550 506**	10	0.088	43	48	22	26	25	7	10	1
25	¾	16	**721 550 507**	10	0.145	51	54	25	29	30	9	10	1 1/4
32	1	16	**721 550 508**	5	0.175	58	60	27	33	36	8	11	1 1/2
40	1 ¼	16	**721 550 509**	2	0.322	72	70	31	39	46	10	13	2
50	1 ½	16	**721 550 510**	2	0.467	83	81	35	46	55	13	15	2 1/4
63	2	16	**721 550 511**	8	0.776	100	98	40	58	65	14	20	2 3/4
75	2 ½	10	**721 550 512**	2	1.360	127	109	47	62	85	16	18	Tr 108x5
90	3	10	**721 550 513**	2	2.003	150	121	52	69	95	18	18	Tr 128x5





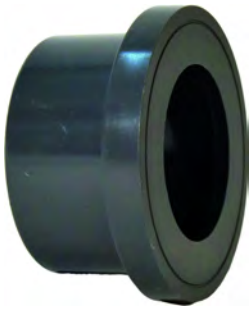
Adaptor union PVC-U/brass metric R

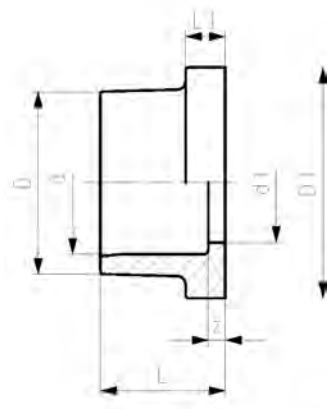
Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248

d (mm)	R (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	G (inch)	s (mm)
20	½	16	**721 550 906**	10	0.125	43	63	37	26	47	1	25
25	½	16	**721 550 957**	5	0.196	51	66	37	29	47	1 1/4	30
25	¾	16	**721 550 907**	5	0.196	51	71	42	29	52	1 1/4	30
25	1	16	**721 550 967**	5	0.307	51	75	46	29	56	1 1/4	30
32	½	16	**721 550 958**	5	0.297	58	70	37	33	48	1 1/2	36
32	¾	16	**721 550 968**	5	0.297	58	75	42	33	53	1 1/2	36
32	1	16	**721 550 908**	5	0.283	58	79	46	33	57	1 1/2	36
40	1 ¼	16	**721 550 909**	2	0.502	72	91	52	39	65	2	46
50	1 ½	16	**721 550 910**	2	0.681	83	102	56	46	71	2 1/4	55
63	2	16	**721 550 911**	2	1.101	100	125	67	58	87	2 3/4	65
75	2 ½	10	**721 550 912**	2	1.706	127	139	77	62	95	Tr 108x5	85
90	3	10	**721 550 913**	1	2.662	150	155	86	69	104	Tr 125x8	95

Flange adaptors





Flange adaptor PVC-U
Combined jointing face flat and serrated metric

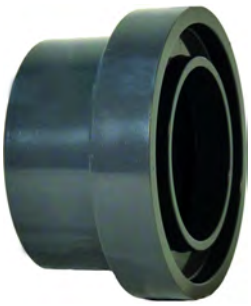
Model:

- Solvent cement socket metric
- d16 - d50: Sealing surface flat
- d63 - d400: combined jointing face flat and serrated
- Combination with gasket: profile flange gasket EPDM code no. 748 440 705-725, FKM code no. 749 440 705-725 or flat gasket EPDM code no. 748 440 705-725, only use O-ring EPDM code no. 748 410 000-174, FKM code no. 749 410 000-174 in combination with conterpart flange adaptor code no. 721 810 105-123
- Combination with flanges (metric & ANSI): PVC-U, PP-V, PP-Steel

Note:

* bevel on pipe may be needed if used with butterfly valve type 037/038/039
The flat gasket affects the maximum allowable operating pressure!

	d (inch)	d (mm)	DN (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
		16	10	16	**721 800 105**	10	0.006	22	29	13	17	6	3
		20	15	16	**721 800 106**	10	0.009	27	34	16	19	6	3
		25	20	16	**721 800 107**	10	0.015	33	41	21	22	7	3
		32	25	16	**721 800 108**	10	0.024	41	50	28	25	7	3
		40	32	16	**721 800 109**	10	0.039	50	61	36	29	8	3
		50	40	16	**721 800 110**	10	0.056	61	73	45	34	8	3
		63	50	16	**721 790 111**	10	0.103	77	90	57	41	9	3
	2 ½	75	65	16	**721 790 112**	10	0.159	91	106	69	47	10	3
		90	80	16	**721 790 113**	10	0.253	108	125	82	56	11	5
		110	100	16	**721 790 114**	10	0.417	131	150	102	66	12	5
		125	125	16	**721 790 115**	5	0.533	148	170	117	74	13	5
	5	140	125	16	**721 790 116**	6	0.725	165	188	132	81	14	5
		160	150	16	**721 790 117**	2	1.093	188	213	152	91	16	5
*		200	200	10	**721 790 119**	2	1.460	224	250	192	112	24	6
		225	200	10	**721 790 120**	2	1.743	248	274	217	125	25	6
*		250	250	10	**721 790 121**	1	2.203	274	303	240	140	23	9
		280	250	10	**721 790 122**	1	2.930	308	329	270	151	23	5
*		315	300	6	**721 790 123**	1	4.455	346	379	302	172	27	8
		355	350	6	**721 790 124**	1	5.963	384	430	341	194	32	10
		400	400	6	**721 790 125**	1	9.041	438	482	384	216	34	10





Flange adaptor PVC-U
Jointing face with O-ring groove metric

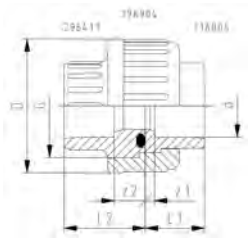
Model:

- Solvent cement socket metric
- Counterpart: flange adaptor flat code no. 721 800 105-721 790 111-125, combined flange adaptor (d160, d200, d225, d280, d315)
- Gasket: O-ring EPDM code no. 748 410 000-176, FKM code no. 749 410 000-176
- Flange: PVC-U code no. 721 700 005-138, PP/steel code no. 727 700 206-223, PP-V for socket systems metric code no. 727 700 406-423

d (inch)	d (mm)	DN (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
	16	10	16	**721 810 105**	10	0.008	22	29	13	20	9	6
	20	15	16	**721 810 106**	10	0.011	27	34	16	22	9	6
	25	20	16	**721 810 107**	10	0.018	33	41	21	25	10	6
	32	25	16	**721 810 108**	10	0.027	41	50	28	28	10	6
	40	32	16	**721 810 109**	10	0.046	50	61	36	34	13	8
	50	40	16	**721 810 110**	10	0.068	61	73	45	39	13	8
	63	50	16	**721 810 111**	10	0.120	77	90	57	46	14	8
2 ½	75	65	16	**721 810 112**	10	0.183	91	106	69	52	15	8
	90	80	16	**721 810 113**	10	0.286	108	125	82	61	16	10
	110	100	16	**721 810 114**	10	0.478	131	150	102	72	18	11
	125	125	16	**721 810 115**	5	0.607	148	170	117	80	19	11
5	140	125	16	**721 810 116**	6	0.804	165	188	132	87	20	11
	160	150	16	**721 810 117**	2	1.226	188	213	152	97	22	11
	200	200	10	**721 810 119**	2	1.593	224	250	192	118	30	12
	225	200	10	**721 810 120**	2	1.878	248	274	217	131	31	12
	250	250	10	**721 810 121**	1	2.175	274	303	240	140	23	9
	280	250	10	**721 810 122**	1	3.170	308	329	270	158	30	13
	315	300	6	**721 810 123**	1	4.891	346	379	302	180	35	17

Thread unions





Thread union PVC-U Rp Rp

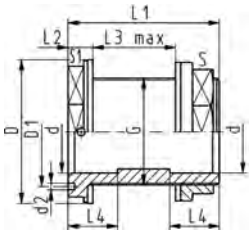
Model:

- Union Nut: PVC-U
- Union Bush: Parallel female thread Rp
- Union End: Parallel female thread Rp
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U
- Gasket: O-ring EPDM code no. 748 410 004-011
- Gasket: O-ring FKM code no. 749 410 004-011 (to be ordered separately)

Rp (inch)	PN (bar)	Code	SP	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
¼	10	**721 510 604**	10	0.019	⅝	3	12	31	22	15
⅜	10	**721 510 605**	10	0.027	¾	3	13	35	24	17
½	10	**721 510 606**	10	0.042	1	3	13	43	26	19
¾	10	**721 510 607**	10	0.065	1 ¼	3	14	51	29	22
1	10	**721 510 608**	10	0.093	1 ½	3	15	58	32	25
1 ¼	10	**721 510 609**	10	0.160	2	3	19	72	38	29
1 ½	10	**721 510 610**	2	0.220	2 ¼	3	26	83	45	34
2	10	**721 510 611**	5	0.415	2 ¾	3	33	100	56	41

Tank adaptors





Tank adaptor type 050 PVC-U
Compact metric

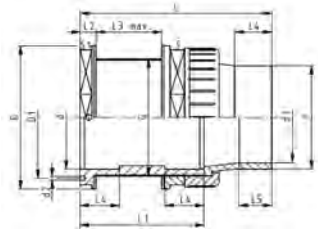
Model:

- End connection: solvent cement socket, metric
- Gasket: flat gasket EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- FKM flat gasket available for tank adaptor type 050

d (mm)	PN (bar)	EPDM Code	SP	Weight (kg)
16	16	**161 050 445**	75	0.048
20	16	**161 050 446**	50	0.066
25	16	**161 050 447**	70	0.170
32	16	**161 050 448**	50	0.144
40	16	**161 050 449**	30	0.238
50	16	**161 050 450**	20	0.260
63	16	**161 050 451**	15	0.398

d (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	D1 (mm)	S (mm)	D (mm)	L2 (mm)	S1 (mm)	L4 (mm)	L1 (mm)	d2 (mm)	G (inch)
16	28	28	29	32	44	11	40	14	58	5	¾
20	28	35	35	40	54	12	50	16	61	5	1
25	28	43	42	50	60	13	55	19	65	5	1 ¼
32	28	49	49	56	69	13	65	22	67	5	1 ½
40	29	61	59	69	84	13	80	26	72	5	2
50	30	67	70	76	92	15	85	31	76	5	2 ¼
63	35	83	82	95	108	15	100	38	84	5	2 ¾





Tank adaptor type 050 PVC-U
Union with spigot/reducing socket metric

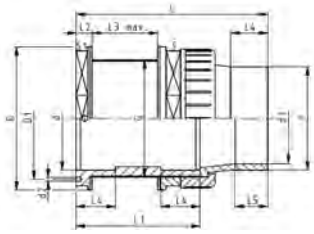
Model:

- Gaskets: flat gaskets EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- FKM flat gaskets available for tank adaptor type 050

d (mm)	d1 (mm)	PN (bar)	EPDM Code	SP	Weight (kg)
16	12	16	**161 050 345**	1	0.068
20	16	16	**161 050 346**	1	0.102
25	20	16	**161 050 347**	1	0.157
32	25	16	**161 050 348**	1	0.220
40	32	16	**161 050 349**	1	0.353
50	40	16	**161 050 350**	1	0.438
63	50	16	**161 050 351**	1	0.680

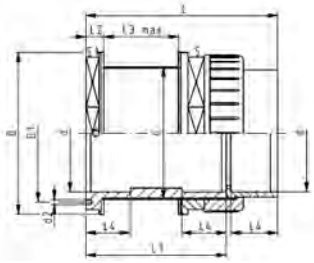
d (mm)	L (mm)	D (mm)	L1 (mm)	L5 (mm)	L4 (mm)	S1 (mm)	L2 (mm)	S (mm)	D1 (mm)	Diameter of bore in tank side (mm)	L3 max (mm)	G (inch)	d2 (mm)
16	96	44	58	12	14	40	11	32	29	28	19	¾	5
20	104	54	61	14	16	50	12	40	35	35	17	1	5
25	112	60	65	16	19	55	13	50	42	43	18	1 ¼	5

table continued on the next page



d (mm)	L (mm)	D (mm)	L1 (mm)	L5 (mm)	L4 (mm)	S1 (mm)	L2 (mm)	S (mm)	D1 (mm)	Diameter of bore in tank side (mm)	L3 max (mm)	G (inch)	d2 (mm)
32	119	69	67	19	22	65	13	56	49	49	19	1 ½	5
40	132	84	72	22	26	80	13	69	59	61	16	2	5
50	145	92	76	26	31	85	15	76	70	67	16	2 ¼	5
63	163	108	84	31	38	100	15	95	82	83	19	2 ¾	5





Tank adaptor type 050 PVC-U
Union with solvent cement socket metric

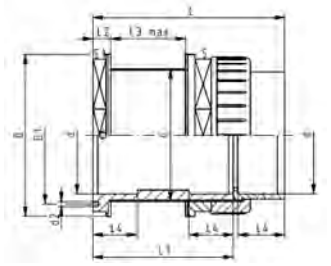
Model:

- Gaskets: flat gaskets EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- FKM flat gaskets available for tank adaptor type 050

d (mm)	PN (bar)	Code	SP	Weight (kg)
16	16	**161 050 245**	1	0.064
20	16	**161 050 246**	1	0.070
25	16	**161 050 247**	1	0.100
32	16	**161 050 248**	1	0.196
40	16	**161 050 249**	1	0.328
50	16	**161 050 250**	1	0.395
63	16	**161 050 251**	1	0.530

d (mm)	L (mm)	L2 (mm)	L1 (mm)	D (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	S1 (mm)	L4 (mm)	d2 (mm)	D1 (mm)	S (mm)	G (inch)
16	77	11	58	44	19	28	40	14	5	29	32	¾
20	83	12	61	54	17	35	50	16	5	35	40	1
25	90	13	65	60	18	43	55	19	5	42	50	1 ¼
32	95	13	67	69	19	49	65	22	5	49	56	1 ½
40	104	13	72	84	16	61	80	26	5	59	69	2
50	113	15	76	92	16	67	85	31	5	70	76	2 ¼
63	128	15	84	108	19	83	100	38	5	82	95	2 ¾





Tank adaptor type 050 PVC-U
Union with solvent cement socket and O-Ring gasket metric

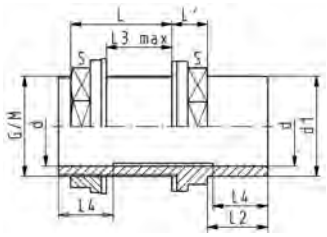
Model:

- Gaskets: O-ring EPDM, flat gasket EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- For round tanks

d (mm)	PN (bar)	Code	SP	Weight (kg)
16	16	**161 050 385**	1	0.040
20	16	**161 050 386**	1	0.070
25	16	**161 050 387**	1	0.160
32	16	**161 050 388**	1	0.200
40	16	**161 050 389**	1	0.240
50	16	**161 050 390**	1	0.400
63	16	**161 050 391**	1	0.530

d (mm)	G (inch)	d2 (mm)	D1 (mm)	S (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	S1 (mm)	L4 (mm)	L (mm)	L2 (mm)	L1 (mm)	D (mm)
16	¾	5	29	32	19	28	40	14	77	11	58	44
20	1	5	35	40	17	35	50	16	83	12	61	54
25	1 ¼	5	42	50	18	43	55	19	90	13	65	60
32	1 ½	5	49	56	19	49	65	22	95	13	67	69
40	2	5	59	69	16	61	80	26	104	13	72	84
50	2 ¼	5	70	76	16	67	85	31	113	15	76	92
63	2 ¾	5	82	95	19	83	100	38	128	15	84	108





Tank adaptor adjustable PVC-U
Union with spigot/reducing socket metric

Model:

- Gasket: flat gasket EPDM
- Washer: PP
- Spare parts on request

d (mm)	d1 (mm)	Code	SP	Weight (kg)
20	25	**161 050 206**	0	0.046
25	32	**161 050 207**	50	0.066
32	40	**161 050 208**	50	0.106
40	50	**161 050 209**	35	0.190
50	63	**161 050 210**	25	0.248
63	75	**161 050 211**	15	0.352
75	90	**161 050 212**	20	0.539
90	110	**161 050 213**	10	1.083
110	125	**161 050 214**	6	1.350

d (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	G (inch)	L1 (mm)	L2 (mm)	L (mm)	L4 (mm)	s (mm)	M
20	23	28	¾	13	19	42	16	32	
25	23	35	1	15	22	45	19	40	
32	24	43	1 ¼	17	26	49	22	50	
40	21	55	1 ¾	19	31	48	26	60	
50	21	61	2	21	38	52	31	69	
63	23	77	2 ½	23	44	53	38	85	
75	20	89	3	26	51	56	44	100	
90	20	115		32	61	62	51	125	M113
110	22	135		36	69	66	61	147	M133

Solvent Cements and Tools



Tangit PVC-U solvent cement

- Tin à 0.250, 0.500 and 1.000 kg (Net)
- 0.125 kg tube

Code	SP	Weight (kg)	Description
799 298 000	12	0.125	tube: 0.125 kg
799 298 001	12	0.250	tin: 0.25 kg
799 298 002	12	0.500	tin: 0.50 kg
799 298 003	6	1.000	tin: 1.00 kg



Cap for cement

- Cap prevents the evaporation of the solvent whilst using the Tangit cement

Code	SP	Weight (kg)
799 298 028	500	0.030



Tangit PVC-U/PVC-C/ABS cleaner

Model:

- For PVC-U, PVC-C, ABS
- 1 litre tin

Code	SP	Weight (kg)
799 298 010	12	0.900



Round brush

d-d (mm)		Code	SP	Weight (kg)	Closest inch (inch)
6 - 10	4 mm (for Fittings 6-10mm)	**799 299 001**	12	0.004	⅛
12 - 32	8 mm (for Fittings 12-32mm)	**799 299 002**	12	0.006	¼ - 1



Flat brush

d-d (mm)		Code	SP	Weight (kg)	Closest inch (inch)
40 - 63	25x3 mm (for Fittings 40-63mm)	**799 299 003**	12	0.015	1 ¼ - 2
75 - 225	50x5 mm (for Fittings 75-225mm)	**799 299 004**	12	0.035	2 ½ - 8
250 - 400	75x6 mm (for Fittings 250-400mm)	**799 299 005**	12	0.053	9 - 16



Chamfering tools

- Chamfering tool (15° bevel) for plastic pipes (PVC, ABS, PB, PP, PE, PVDF).
- Plastic coated prism surface.
- Easy adjustment to the different pipe diameters and wall thickness.

d-d (mm)	Code	SP	Weight (kg)
16 - 200	**790 309 003**	1	1.300
63 - 400	**790 309 004**	1	2.600



Replacement cutting wheels

For plastic pipe cutter

d-d (mm)	Article	Code	SP	Weight (kg)
10 - 63	SR 63 max. s=7,2 mm	**790 109 011**	1	0.004
50 - 110	SR 110/160 max. s=12,7 mm	**790 109 012**	1	0.015
110 - 160	SR 160 max. s=19,0 mm	**790 109 013**	1	0.023



PPC Plastic pipe cutter

For cutting plastic pipes d10 - d160

d-d (mm)	Article	Code	SP	Weight (kg)	Closest inch (inch)
10 - 63	PPC 63, s max. = 7.2mm	**790 109 001**	1	0.865	⅛ - 2
50 - 110	PPC 110, s max. = 12.7mm	**790 109 002**	1	1.624	1 ½ - 4
110 - 160	PPC 160, s max. = 19.0mm	**790 109 003**	1	2.212	4 - 6



KS 355 Plastic pipe cutter

- The KS 355 is the ideal tool for right-angled cuts with no misalignment of PE, PP and PVC pipes
- Pipe outer dimension from 160 – 355 mm, wall-thickness from 8 – 40 mm
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts necessary
- Weight of the saw: 13,0 kg
- Supplied with transport box: Dimension 700 x 350 x 500 mm; Weight 17,0 kg

d-d (mm)	Code	Weight (kg)	Power
160 - 355	**790 202 001**	35.000	1750 W; 230 V; 50/60 Hz

PROGEF



Technical data

Materials
PP

Dimensions range
PROGEF Standard: 16 mm to 500 mm

Jointing technology
IR Plus fusion, socket fusion, butt fusion

Operating pressure
Up to 10 bar

Operating temperature
0°C to 80°C

Your benefits

- **High impact strength**
- **Good chemical resistance**
- **Outstanding abrasion resistant**
- **Excellent pressure and temperature resistant**

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Pressure-temperature diagram for PP

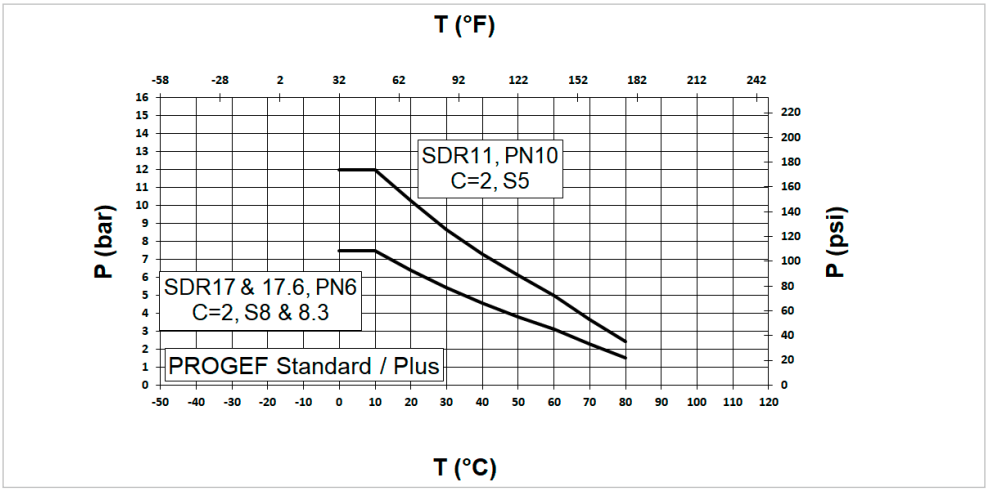
PROGEF Standard and PROGEF Plus piping system (PP-H)

The following pressure-temperature diagrams for PP pipe and fittings are valid for a service life of 25 years. The design factor of 2 recommended by GF Piping Systems has been incorporated.

The diagrams can be used for water or media resembling water, in other words, media which have no reduction factor for chemical resistance.

Please take into account the pressure-temperature diagrams for valves and special fittings. Because of the construction and/or sealing material used, differences are possible when compared to pipe and fittings. More information is available in the Planning Fundamentals of the relevant types of valves and special fittings.

Pressure-temperature diagram for PP pipe and injection-molded fittings

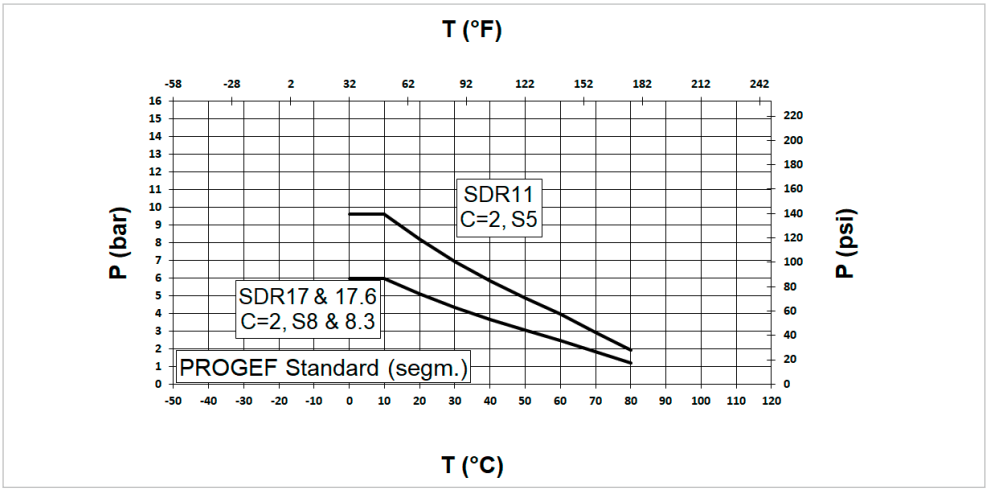


P Permissible pressure (bar, psi)
T Temperature (°C, °F)

In case of applications with temperatures in the range of the dotted lines, please contact your GF Piping Systems representative.

Pressure-temperature diagram for PP segment-welded fittings

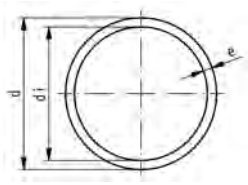
Segment-welded fittings have a reduction factor of 0.8 for the operating pressure/nominal pressure.



P Permissible pressure (bar, psi)
T Temperature (°C, °F)

Pipes





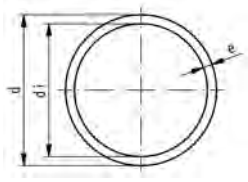
PROGEF Standard pipe SDR7,4/PN16/S3,2

Model:

- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

d (mm)	Code	Weight (kg/m)	e (mm)
16	**167 481 027**	0.095	2.2
20	**167 481 028**	0.148	2.8
25	**167 481 029**	0.230	3.5





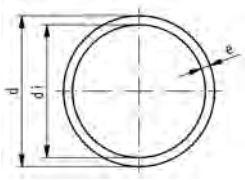
PROGEF Standard pipe SDR11/PN10/S5

Model:

- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends
- **Note 1**: acc. to EN 15494
- **Note 2**: DIBT Z-40.23-4 approval
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

Note	d (mm)	Code	Weight (kg/m)	di (mm)	closest inch (inch)	e (mm)
1, 2	16	**167 480 710**	0.080	12.4	⅜	1.8
2	20	**167 480 711**	0.107	16.2	½	1.9
2	25	**167 480 712**	0.164	20.4	¾	2.3
2	32	**167 480 713**	0.261	26.2	1	2.9
2	40	**167 480 714**	0.412	32.6	1 ¼	3.7
2	50	**167 480 715**	0.638	40.8	1 ½	4.6
2	63	**167 480 716**	1.010	51.4	2	5.8
2	75	**167 480 717**	1.410	61.4	2 ½	6.8
2	90	**167 480 718**	2.030	73.6	3	8.2
2	110	**167 480 719**	3.010	90.0	4	10.0
2	125	**167 480 720**	3.910	102.2	4 ½	11.4
2	140	**167 480 721**	4.870	114.6	5	12.7
2	160	**167 480 722**	6.380	130.8	6	14.6
	180	**167 480 723**	8.070	147.2	7	16.4
	200	**167 480 724**	9.950	163.6	8	18.2
	225	**167 480 725**	12.600	184.0	9	20.5
	250	**167 480 726**	15.500	204.6	10	22.7
	280	**167 480 727**	19.400	229.2	11	25.4
	315	**167 480 728**	24.600	257.8	12	28.6
	355	**167 480 729**	31.200	290.6	14	32.2
	400	**167 480 730**	39.600	327.4	16	36.3





PROGEF Standard pipe SDR17,6/PN6/S8,3

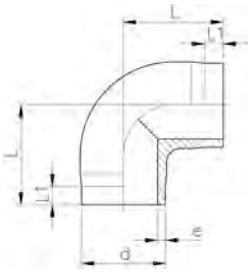
Model:

- Material: PP-H - homopolymer
- Dimension: acc. to DIN 8077/78
- Colour: light grey RAL 7032
- Pipe length: 5000mm, with plain ends
- **Note 1**: acc. to EN 15494
- **Note 2**: DIBT Z-40.23-4 approval
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

Note	d (mm)	Code	Weight (kg/m)	e (mm)
1, 2	25	**167 480 676**	0.132	1.8
2	32	**167 480 678**	0.172	1.8
2	40	**167 480 679**	0.273	2.3
2	50	**167 480 680**	0.422	2.9
2	63	**167 480 681**	0.659	3.6
2	75	**167 480 682**	0.935	4.3
2	90	**167 480 683**	1.330	5.1
2	110	**167 480 684**	1.990	6.3
2	125	**167 480 685**	2.550	7.1
2	140	**167 480 686**	3.200	8.0
2	160	**167 480 687**	4.170	9.1
	180	**167 480 688**	5.250	10.2
	200	**167 480 689**	6.500	11.4
	225	**167 480 690**	8.190	12.8
	250	**167 480 691**	10.100	14.2
	280	**167 480 692**	12.600	15.9
	315	**167 480 693**	16.000	17.9
	355	**167 480 694**	20.300	20.1
	400	**167 480 695**	25.700	22.7
	450	**167 480 696**	32.500	25.5
	500	**167 480 697**	40.200	28.4

Butt fusion fittings SDR 11





PROGEF Standard elbow 90° S5/SDR11 (PN10)

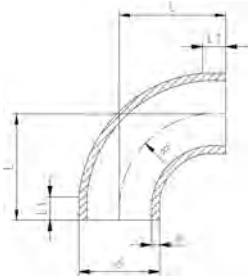
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	IR	**727 108 506**	0.008	38	25	1.9
25	IR	**727 108 507**	0.012	42	26	2.3
32	IR	**727 108 508**	0.022	46	27	2.9
40	IR	**727 108 509**	0.045	51	22	3.7
50	IR	**727 108 510**	0.080	58	23	4.6
63	IR	**727 108 511**	0.138	66	21	5.8







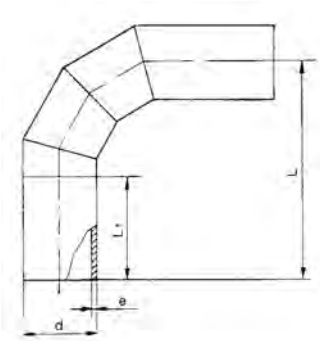
PROGEF Standard bend 90° S5/SDR11 (PN10)

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

* Material:PP-R

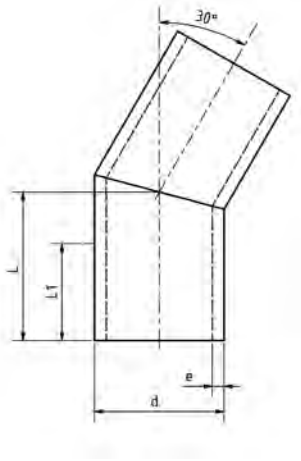
	Version	d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
	1	20	IR	**727 018 606**	0.008	38	23	15.00	1.9
	1	25	IR	**727 018 607**	0.013	42	23	19.00	2.3
	1	32	IR	**727 018 608**	0.022	46	22	24.00	2.9
	1	40	IR	**727 018 609**	0.040	51	21	30.00	3.7
	1	50	IR	**727 018 610**	0.067	58	21	37.00	4.6
	1	63	IR	**727 018 611**	0.117	66	21	45.00	5.8
	2	75	IR	**727 018 622**	0.178	75	21	71.25	6.8
	2	90	IR	**727 018 623**	0.308	90	22	85.50	8.2
	2	110	IR	**727 018 624**	0.556	110	25	104.50	10.0
	2	125	IR	**727 018 615**	0.818	125	28	116.00	11.4
	2	140	IR	**727 018 616**	1.148	140	33	131.00	12.7
	2	160	IR	**727 018 617**	1.699	160	33	151.00	14.6
	2	180	IR	**727 018 618**	2.394	180	33	171.00	16.4
	2	200	IR	**727 018 619**	3.264	200	33	190.00	18.2
	2	225	IR	**727 018 620**	4.535	220	33	210.00	20.5
	1	250	IR	**727 018 521**	6.351	256	48	232.00	22.7
	1	280	IR	**727 018 522**	9.398	286	48	262.00	25.4
	1	315	IR	**727 018 523**	12.959	321	48	297.00	28.6
*	2	355		**727 018 524**	16.400	345	70	330.00	32.2
*	2	400		**727 018 525**	22.220	365	70	350.00	36.3
*	2	450		**727 018 526**	32.560	425	70	400.00	40.9
*	2	500		**727 018 527**	44.840	470	90	445.00	45.4



Bend 90°, PP-H S5/SDR11

- big dimensions on request
- For butt- and electro fusion
- Reduction factor = 0,8

d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 384**	315	150	10.0
125	**700 649 385**	338	150	11.4
140	**700 649 386**	360	150	12.8
160	**700 649 387**	390	150	14.6
180	**700 649 388**	420	150	16.4
200	**700 649 389**	450	150	18.2
225	**700 649 390**	488	150	20.5
250	**700 649 391**	625	250	22.8
280	**700 649 392**	670	250	25.5
315	**700 649 393**	773	300	28.7
355	**700 649 394**	833	300	32.3
400	**700 649 395**	900	300	36.4



Bend 30°, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d (mm)	Code	SP	L (mm)	L1 (mm)	e (mm)
110	**700 649 469**	0	194	150	10.0
125	**700 649 470**	0	200	150	11.4
140	**700 649 471**	0	206	150	12.8
160	**700 649 472**	0	214	150	14.6
180	**700 649 473**	0	222	150	16.4
200	**700 649 474**	0	230	150	18.2
225	**700 649 475**	0	241	150	20.5
250	**700 649 476**	0	350	250	22.8
280	**700 649 477**	0	362	250	25.5
315	**700 649 478**	0	428	300	28.7
355	**700 649 479**	0	443	300	32.3
400	**700 649 480**	0	461	300	36.4
450			481	300	41.0
500			551	350	45.5
560			575	350	51.0
630			603	350	57.3





PROGEF Standard elbow 45° S5/SDR11 (PN10)

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible
- Long version for d250, d280 and d315

1) Material:PP-R

	d (mm)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	e (mm)
	20	IR	**727 158 506**	10	0.006	32	24.0	1.9
	25	IR	**727 158 507**	10	0.010	34	25.0	2.3
	32	IR	**727 158 508**	10	0.021	36	25.0	2.9
	40	IR	**727 158 509**	10	0.033	39	25.0	3.7
	50	IR	**727 158 510**	10	0.054	42	26.0	4.6
	63	IR	**727 158 511**	10	0.097	47	29.0	5.8
	75	IR	**727 158 512**	10	0.137	49	29.0	6.8
	90	IR	**727 158 513**	6	0.222	57	34.0	8.2
	110	IR	**727 158 514**	5	0.412	70	43.0	10.0
	125	IR	**727 158 515**	4	0.570	79	48.0	11.4
	140	IR	**727 158 516**	1	0.854	88	55.0	12.7
	160	IR	**727 158 517**	2	1.256	100	60.0	14.6
	200	IR	**727 158 519**	1	2.448	124	75.0	18.2
	225	IR	**727 158 520**	1	3.495	140	85.0	20.5
1	250	IR	**727 158 521**	1	7.890	225	133.0	22.7
1	280	IR	**727 158 522**	1	10.170	235	143.0	25.4
1	315	IR	**727 158 523**	1	11.690	255	154.0	28.6



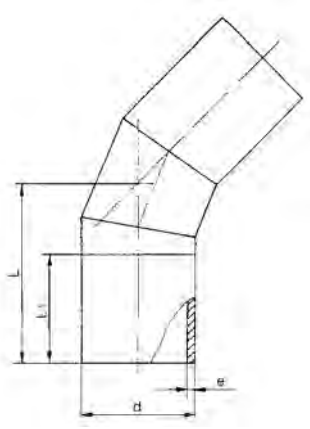


PROGEF Standard bend 45° S5/SDR11 (PN10)

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8

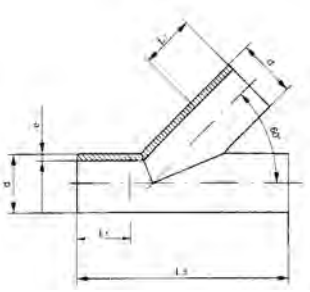
d (mm)	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
355	**727 158 524**	32.300	520	300	532.5	32.2
400	**727 158 525**	43.200	548	300	600.0	36.3
450	**727 158 526**	57.700	580	300	675.0	40.9
500	**727 158 527**	87.200	665	350	750.0	45.4



Bend 45°, PP-H S5/SDR11

- big dimensions on request
- For butt- and electro fusion
- Reduction factor = 0,8

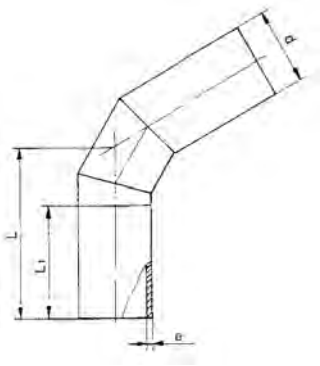
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 444**	218	150	10.0
125	**700 649 445**	228	150	11.4
140	**700 649 446**	237	150	12.8
160	**700 649 447**	249	150	14.6
180	**700 649 448**	262	150	16.4
200	**700 649 449**	274	150	18.2
225	**700 649 450**	290	150	20.5
250	**700 649 451**	412	250	22.8
280	**700 649 452**	424	250	25.5
315	**700 649 453**	498	300	28.7
355	**700 649 454**	520	300	32.3
400	**700 649 455**	548	300	36.4
450		580	300	41.0
500		665	350	45.5
560		698	350	51.0
630		741	350	57.3



Branch 60°, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,5

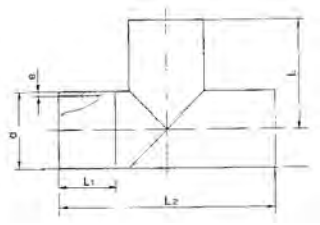
d (mm)	Code	SP	L1 (mm)	L2 (mm)	e (mm)
110	**700 649 660**	0	150	520	10.0
125	**700 649 661**	0	150	520	11.4
140	**700 649 662**	0	150	570	12.8
160	**700 649 663**	0	150	640	14.6
180	**700 649 664**	0	150	700	16.4
200	**700 649 665**	0	150	800	18.2
225	**700 649 666**	0	150	800	20.5
250	**700 649 667**	0	250	1000	22.8
280	**700 649 668**	0	250	1000	25.5
315	**700 649 669**	0	300	1300	28.7
355	**700 649 670**	0	300	1500	32.3
400	**700 649 671**	0	300	1500	36.4



Bend 60°, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

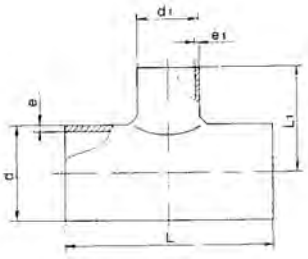
d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 420**	245	150	10.0
125	**700 649 421**	258	150	11.4
140	**700 649 422**	271	150	12.8
160	**700 649 423**	288	150	14.6
180	**700 649 424**	305	150	16.4
200	**700 649 425**	323	150	18.2
225	**700 649 426**	345	150	20.5
250	**700 649 427**	466	250	22.8
280	**700 649 428**	492	250	25.5
315	**700 649 429**	576	300	28.7
355	**700 649 430**	608	300	32.3
400	**700 649 431**	646	300	36.4
450		689	300	41.0
500		783	350	45.5
560		835	350	51.0
630		896	350	57.3



Tees 90°, equal, PP-H S5/SDR11

- For butt- and electro fusion
- Reducing factor = 0,6
- big dimensions on request

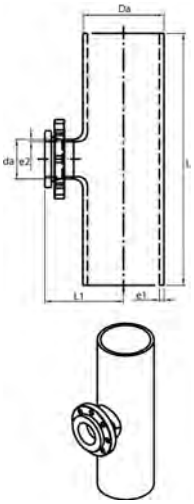
d (mm)	Code	L (mm)	L1 (mm)	L2 (mm)	e (mm)
110		205	150	410	10.0
125		215	150	430	11.4
140		220	150	440	12.8
160		230	150	460	14.6
180		240	150	480	16.4
200		250	150	500	18.2
225	**700 649 481**	265	150	530	20.5
250	**700 649 482**	375	250	750	22.8
280	**700 649 483**	390	250	780	25.5
315	**700 649 484**	460	300	920	28.7
355	**700 649 485**	480	300	960	32.3
400	**700 649 486**	500	300	1000	36.4
450		525	300	1050	41.0
500		600	350	1200	45.5
560		630	350	1260	51.0
630		665	350	1330	57.3



Tee 90°, reduced, PP-H S5/SDR11

- For butt- and electro fusion
- Reducing factor = 0,6
- big dimensions on request

d (mm)	d1 (mm)	Code	SP	L (mm)	L1 (mm)	e (mm)	e1 (mm)
225	63	**700 649 493**	0	363	238	20.5	5,8
225	75	**700 649 494**	0	375	238	20.5	6,9
225	90	**700 649 495**	0	390	238	20.5	8,2
225	110	**700 649 496**	0	410	238	20.5	10,0
225	125	**700 649 497**	0	425	238	20.5	11,4
225	140	**700 649 498**	0	440	238	20.5	12,8
225	160	**700 649 499**	0	460	238	20.5	14,6
250	75	**700 649 500**	0	475	250	22.8	6,9
250	90	**700 649 501**	0	490	250	22.8	8,2
250	110	**700 649 502**	0	510	250	22.8	10,0
250	125	**700 649 503**	0	525	250	22.8	11,4
250	140	**700 649 504**	0	540	250	22.8	12,8
250	160	**700 649 505**	0	560	250	22.8	14,6
250	180	**700 649 506**	0	580	275	22.8	16,4
280	75	**700 649 507**	0	475	265	25.5	6,9
280	90	**700 649 508**	0	490	265	25.5	8,2
280	110	**700 649 509**	0	510	265	25.5	10,0
280	125	**700 649 510**	0	525	265	25.5	11,4
280	140	**700 649 511**	0	540	265	25.5	12,8
280	160	**700 649 512**	0	560	265	25.5	14,6
280	180	**700 649 513**	0	580	290	25.5	16,4
280	200	**700 649 514**	0	600	290	25.5	18,2
315	90	**700 649 515**	0	490	283	28.7	8,2
315	110	**700 649 516**	0	510	283	28.7	10,0
315	125	**700 649 517**	0	525	283	28.7	11,4
315	140	**700 649 518**	0	540	283	28.7	12,8
315	160	**700 649 519**	0	560	283	28.7	14,6
315	180	**700 649 520**	0	580	308	28.7	16,4
315	200	**700 649 521**	0	600	308	28.7	18,2
315	225	**700 649 523**	0	625	308	28.7	20,5
355	110	**700 649 524**	0	510	303	32.3	10,0
355	125	**700 649 525**	0	525	303	32.3	11,4
355	140	**700 649 526**	0	540	303	32.3	12,8
355	160	**700 649 527**	0	560	303	32.3	14,6
355	180	**700 649 528**	0	580	328	32.3	16,4
355	200	**700 649 529**	0	600	328	32.3	18,2
355	225	**700 649 530**	0	625	328	32.3	20,5
355	250	**700 649 531**	0	650	378	32.3	22,8
400	110	**700 649 532**	0	510	325	36.4	10,0
400	125	**700 649 533**	0	525	325	36.4	11,4
400	140	**700 649 534**	0	540	325	36.4	12,8
400	160	**700 649 535**	0	560	325	36.4	14,6
400	180	**700 649 536**	0	580	350	36.4	16,4
400	200	**700 649 537**	0	600	350	36.4	18,2
400	225	**700 649 538**	0	625	350	36.4	20,5
400	250	**700 649 539**	0	650	400	36.4	22,8
400	280	**700 649 540**	0	680	400	36.4	25,5

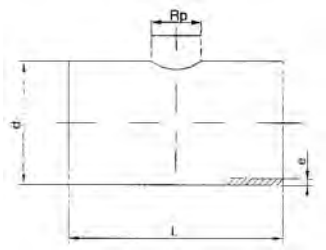


Revision Tees 90°, PP-H SDR11

Model:

- Flued and butt fusion according to DVS2207
- Backing flanges to ISO 7005, EN 1092, DIN 2501, bolt circle PN10
- Reducing factor = 0,6
- big dimensions on request

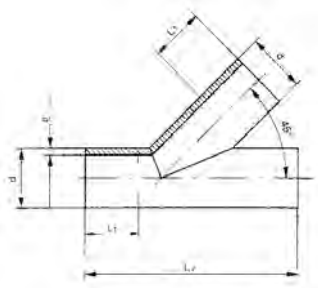
d (mm)	d1 (mm)	PN (bar)	Code	SP	L1 (mm)	e2 (mm)	L (mm)	e1 (mm)
110	110	10	**700 665 628**	0	236	10,0	500	10,0
125	125	10	**700 665 629**	0	248	11,4	500	11,4
140	140	10	**700 665 630**	0	265	12,7	500	12,7
160	110	10	**700 665 631**	0	278	10,0	500	14,6
180	110	10	**700 665 632**	0	350	10,0	500	16,4
200	140	10	**700 665 633**	0	350	12,7	500	18,2
225	140	10	**700 665 634**	0	400	12,7	560	20,5
250	160	10	**700 665 635**	0	450	14,6	750	22,7
280	225	10	**700 665 636**	0	350	20,5	750	25,4
315	225	10	**700 665 637**	0	400	20,5	850	28,6
355	225	10	**700 665 638**	0	450	20,5	950	32,2
400	225	10	**700 665 639**	0	450	20,5	1000	36,3



Saddle-Tee, PP-H S5/SDR11 Outlet with female thread Rp, welded

- big dimensions on request
- For butt- and electro fusion
- Reduction factor = 0,8

d (mm)	Thread 1 Code	Thread 11/4 Code	Weight (kg)	L (mm)	e (mm)
110	**700 649 588**	**700 649 600**	14.000	260	10.0
125	**700 649 589**	**700 649 601**	14.700	260	11.4
140	**700 649 590**	**700 649 602**	1.370	260	12.8
160	**700 649 591**	**700 649 603**	16.207	260	14.6
180	**700 649 592**	**700 649 604**	17.017	360	16.4
200	**700 649 593**	**700 649 605**	17.868	360	18.2
225	**700 649 594**	**700 649 606**	18.761	360	20.5
280	**700 649 596**	**700 649 608**	20.684	360	25.5
315	**700 649 597**	**700 649 609**	21.719	360	28.7
355	**700 649 598**	**700 649 610**	22.805	460	32.3
400	**700 649 599**	**700 649 611**	23.945	460	36.4

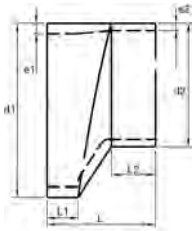


Branch 45°, PP-H S5/SDR11

- For butt- and electro fusion
- Reduction factor = 0,5

d (mm)	Code	SP	L1 (mm)	L2 (mm)	e (mm)
110	**700 649 636**	0	150	520	10.0
125	**700 649 637**	0	150	520	11.4
140	**700 649 638**	0	150	570	12.8
160	**700 649 639**	0	150	640	14.6
180	**700 649 640**	0	150	700	16.4
200	**700 649 641**	0	150	800	18.2
225	**700 649 642**	0	150	800	20.5
250	**700 649 643**	0	250	1000	22.8
280	**700 649 644**	0	250	1000	25.5
315	**700 649 645**	0	300	1300	28.7
355	**700 649 646**	0	300	1500	32.3
400	**700 649 647**	0	300	1500	36.4
450			300	1500	41.0







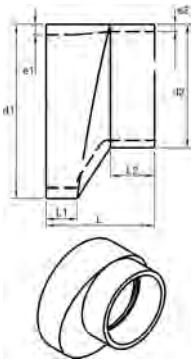
Reducing Bushes excentric, PP-H SDR11

Model:

- Machined
- Conventional butt fusion according to DVS2207

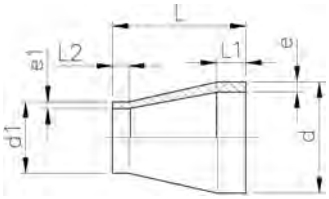
d1 (mm)	d2 (mm)	PN (bar)	Code	L2 (mm)	L (mm)	e2 (mm)	L1 (mm)	e1 (mm)
63	50	10	**700 647 700**	35	120	4,6	35	5,8
75	50	10	**700 647 701**	35	120	4,6	40	6,8
75	63	10	**700 647 702**	35	120	5,8	40	6,8
90	63	10	**700 647 703**	50	140	5,8	50	8,2
90	75	10	**700 647 704**	50	140	6,8	50	8,2
110	75	10	**700 647 705**	50	140	6,8	50	10
110	90	10	**700 647 706**	50	140	8,2	50	10
125	90	10	**700 647 707**	50	140	5,1	50	11,4
125	110	10	**700 647 708**	50	140	10	50	11,4
140	90	10	**700 647 709**	50	140	8,2	50	12,7
140	110	10	**700 647 710**	50	140	10	50	12,7
160	90	10	**700 647 711**	54	140	8,2	50	14,6
160	110	10	**700 647 712**	45	120	10	40	14,6
160	125	10	**700 647 713**	44	110	11,4	40	14,6
160	140	10	**700 647 714**	33	90	12,7	40	14,6
180	125	10	**700 647 715**	52	130	11,4	40	16,4
180	140	10	**700 647 716**	41	110	12,7	40	16,4
180	160	10	**700 647 717**	33	90	16,4	40	16,4
200	140	10	**700 647 718**	50	140	12,7	40	18,2
200	160	10	**700 647 719**	41	120	14,6	40	18,2
200	180	10	**700 647 720**	43	100	16,4	40	18,2
225	160	10	**700 647 721**	57	140	14,6	40	20,5
225	180	10	**700 647 722**	48	120	16,4	40	20,5
225	200	10	**700 647 723**	40	100	18,2	40	20,5
250	180	10	**700 647 724**	54	150	16,4	40	22,7
250	200	10	**700 647 725**	55	130	18,2	40	22,7
250	225	10	**700 647 726**	40	110	20,5	40	22,7
280	200	10	**700 647 727**	58	160	18,2	40	25,4
280	225	10	**700 647 728**	52	130	20,5	40	25,4
280	250	10	**700 647 729**	47	110	22,7	40	25,4
315	225	10	**700 647 730**	62	160	20,5	40	28,6
315	250	10	**700 647 731**	57	140	22,7	40	28,6
315	280	10	**700 647 732**	54	120	25,4	40	28,6
355	250	10	**700 647 733**	74	180	22,7	40	32,2

table continued on the next page



d1 (mm)	d2 (mm)	PN (bar)	Code	L2 (mm)	L (mm)	e2 (mm)	L1 (mm)	e1 (mm)
355	280	10	**700 647 734**	61	150	25,4	40	32,2
355	315	10	**700 647 735**	51	120	28,6	40	32,2
400	280	10	**700 647 736**	85	200	25,4	40	36,3
400	315	10	**700 647 737**	75	170	28,6	40	36,3
400	355	10	**700 647 738**	58	130	32,2	40	36,3
450	315	10	**700 647 739**	86	210	28,6	40	40,9
450	355	10	**700 647 740**	79	180	32,2	40	40,9
450	400	10	**700 647 741**	65	140	36,3	40	40,9
500	315	10	**700 647 742**	107	260	28,6	40	45,4
500	355	10	**700 647 743**	91	220	32,2	40	45,4
500	400	10	**700 647 744**	86	190	36,3	40	45,4
500	450	10	**700 647 745**	65	140	40,9	40	45,4
560	450	10	**700 647 746**	91	200	40,9	40	50,8
560	500	10	**700 647 747**	70	150	45,4	40	50,8
630	500	10	**700 647 748**	99	220	45,4	40	57,2
630	560	10	**700 647 749**	84	170	50,8	40	57,2





PROGEF Standard reducer S5/SDR11 (PN10)

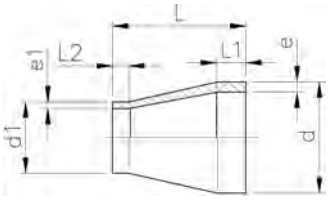
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

Material:PP-R

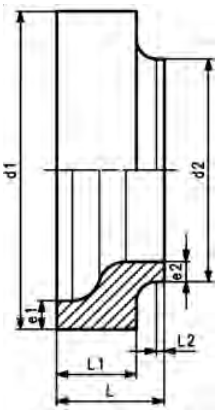
	d (mm)	d1 (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
	25	20	IR	**727 908 537**	0.007	50	20	20	2.3	1.9
	32	20	IR	**727 908 542**	0.010	50	20	20	2.9	1.9
	32	25	IR	**727 908 541**	0.010	50	20	20	2.9	2.3
	40	20	IR	**727 908 548**	0.016	58	20	23	3.7	1.9
	40	25	IR	**727 908 547**	0.016	55	20	20	3.7	2.3
	40	32	IR	**727 908 546**	0.018	55	20	20	3.7	2.9
	50	25	IR	**727 908 554**	0.024	60	20	20	4.6	2.3
	50	32	IR	**727 908 553**	0.027	60	20	20	4.6	2.9
	50	40	IR	**727 908 552**	0.030	60	20	20	4.6	3.7
	63	32	IR	**727 908 560**	0.043	65	20	20	5.8	2.9
	63	40	IR	**727 908 559**	0.047	65	20	20	5.8	3.7
	63	50	IR	**727 908 558**	0.051	65	20	20	5.8	4.6
	75	40	IR	**727 908 566**	0.062	68	20	20	6.8	3.7
	75	50	IR	**727 908 565**	0.071	65	20	20	6.8	4.6
	75	63	IR	**727 908 564**	0.075	65	20	20	6.8	5.8
	90	63	IR	**727 908 571**	0.115	75	22	19	8.2	5.8
	90	75	IR	**727 908 570**	0.130	75	22	19	8.2	6.8
	110	63	IR	**727 908 572**	0.201	90	28	28	10.6	6.2
	110	75	IR	**727 908 577**	0.215	90	28	18	10.0	6.8
	110	90	IR	**727 908 576**	0.225	90	28	30	10.0	8.2
	125	110	IR	**727 908 580**	0.335	100	32	30	11.4	10.0
	140	110	IR	**727 908 585**	0.423	110	33	29	12.7	10.0
	140	125	IR	**727 908 584**	0.462	110	34	30	12.7	11.4
	160	110	IR	**727 908 590**	0.586	120	39	27	14.6	10.0
	160	140	IR	**727 908 588**	0.647	120	40	35	14.6	12.7
	180	90	IR	**727 908 149**	0.800	145	50	40	16.4	8.8
	180	110	IR	**727 908 150**	1.010	150	50	40	16.4	10.0
	180	125	IR	**727 908 151**	0.985	145	52	40	16.4	11.4
	180	140	IR	**727 908 152**	0.995	135	51	47	16.4	12.7
	180	160	IR	**727 908 153**	1.020	135	55	52	16.4	14.6
	200	160	IR	**727 908 592**	1.149	145	50	40	18.2	14.6
	200	180	IR	**727 908 158**	1.300	145	50	45	18.2	16.4
	225	110	IR	**727 908 595**	1.485	160	55	35	20.5	10.0
	225	160	IR	**727 908 596**	1.590	160	55	40	20.5	14.6
	225	180	IR	**727 908 162**	1.770	163	60	58	20.5	16.4
	225	200	IR	**727 908 597**	1.723	160	55	50	20.5	18.2
	250	160	IR	**727 908 165**	2.140	170	63	53	22.7	14.6
	250	225	IR	**727 908 168**	2.750	180	65	65	22.7	20.5
	280	225	IR	**727 908 172**	3.425	203	72	57	25.4	20.5
	280	250	IR	**727 908 173**	1.980	206	75	60	25.4	22.7
	315	225	IR	**727 908 176**	5.110	237	84	60	28.6	20.5
	315	250	IR	**727 908 177**	5.105	231	86	63	28.6	22.7
	315	280	IR	**727 908 178**	5.130	222	80	70	28.6	25.4
1	355	250		**727 908 963**	5.490	245	90	60	32.3	22.7
1	355	280		**727 908 962**	5.462	245	90	70	32.2	25.4
1	355	315		**727 908 961**	3.700	245	90	80	32.2	28.6
1	400	315		**727 908 966**	5.300	260	95	80	36.3	28.6
1	400	355		**727 908 965**	4.800	260	95	90	36.3	32.2
	450	280		**727 908 960**	9.000	230	60	70	40.9	25.4
	450	315		**727 908 948**	8.000	230	60	80	40.9	28.6
	450	355		**727 908 950**	7.400	230	60	90	40.9	32.2
	450	400		**727 908 951**	6.000	230	60	95	40.9	36.3

table continued on the next page



d (mm)	d1 (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
500	315		**727 908 953**	12.000	230	60	80	45.4	28.6
500	355		**727 908 954**	10.800	230	60	90	45.4	32.2
500	400		**727 908 956**	10.000	230	60	95	45.4	36.3
500	450		**727 908 964**	8.300	230	60	60	45.4	40.9





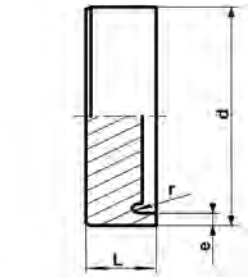
PROGEF Standard flush style reducer SDR11 (PN10)

Model:

- Material: PP-H
- Flush style design
- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

d1 (mm)	d2 (mm)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
355	225	**727 909 809**	4.983	130	95	10	32.2	20.5
355	250	**727 909 810**	3.574	115	80	10	32.2	22.7
355	280	**727 909 811**	3.856	115	80	10	32.2	25.4
355	315	**727 909 812**	3.952	115	80	15	32.2	28.6
400	225	**727 909 816**	7.587	145	110	10	36.3	20.5
400	250	**727 909 817**	6.955	140	105	10	36.3	22.7
400	280	**727 909 818**	6.363	135	100	10	36.3	25.4
400	315	**727 909 819**	6.149	135	100	10	36.3	28.6
400	355	**727 909 820**	5.811	135	100	13	36.3	32.2
450	225	**727 909 822**	11.398	165	125	10	40.9	20.5
450	250	**727 909 823**	10.561	160	120	10	40.9	22.7
450	280	**727 909 824**	9.149	150	110	15	40.9	25.4
450	315	**727 909 825**	8.660	150	110	15	40.9	28.6
450	355	**727 909 826**	8.246	150	110	15	40.9	32.2
450	400	**727 909 827**	7.973	150	110	15	40.9	36.3
500	225	**727 909 829**	15.293	180	130	10	45.4	20.5
500	250	**727 909 830**	15.037	180	130	10	45.4	22.7
500	280	**727 909 831**	13.995	175	125	10	45.4	25.4
500	315	**727 909 832**	10.404	165	115	10	45.4	28.6
500	355	**727 909 833**	10.785	165	115	10	45.4	32.2
500	400	**727 909 834**	11.863	165	115	10	45.4	36.3
500	450	**727 909 835**	12.042	165	115	25	45.4	40.9



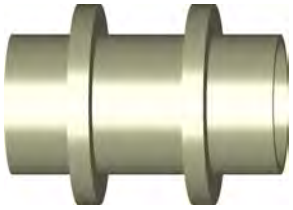


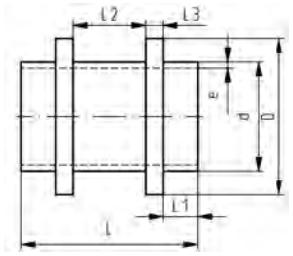
PROGEF Standard end cap S5/SDR11 (PN10)

Model:

- Material: PP-H
- Machined
- Conventional butt-welding according to DVS 2207

d (mm)	Code	SP	Weight (kg)	L (mm)	e (mm)
250	**727 968 846**	1	1.900	60	22.7
280	**727 968 847**	1	2.600	65	25.4
315	**727 968 848**	1	3.600	70	28.6
355	**727 968 849**	1	5.100	80	32.2
400	**727 968 850**	1	7.200	85	36.3
450	**727 968 851**	1	10.200	95	40.9
500	**727 968 852**	1	14.000	105	74.5





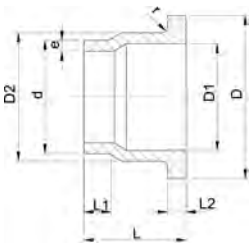
PROGEF Standard fixpoint fitting S5/SDR11 (PN10)

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Machined

d (mm)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	e (mm)
63	IR	**727 665 520**	16	0.175	122	30	42	10	90	5.8
75	IR	**727 665 521**	14	0.254	122	30	42	10	110	6.8
90	IR	**727 665 522**	12	0.342	122	30	42	10	125	8.2
110	IR	**727 665 523**	6	0.567	142	30	52	15	140	10.0
125	IR	**727 665 524**	5	0.777	152	35	52	15	160	11.4
140	IR	**727 665 525**	3	1.023	162	40	52	15	180	12.7
160	IR	**727 665 526**	4	1.292	162	40	52	15	200	14.6
180	IR	**727 665 527**	3	1.917	182	45	52	20	225	16.4
200	IR	**727 665 528**	2	2.365	182	45	52	20	250	18.2
225	IR	**727 665 529**	1	3.294	192	45	52	25	280	20.5
250	IR	**727 665 530**	1	3.695	212	50	62	25	280	22.7
280	IR	**727 665 531**	1	4.997	222	50	62	30	315	25.4
315	IR	**727 665 532**	1	6.348	222	50	62	30	355	28.6
355		**727 665 533**	1	7.405	192	30	62	35	400	32.2
400		**727 665 534**	1	10.432	212	30	72	40	450	36.3
450		**727 665 535**	1	14.153	232	35	72	45	500	40.9
500		**727 665 536**	1	19.414	252	40	72	50	560	45.4





PROGEF Standard outlet flange adaptor S5/SDR11 (PN10)

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- To wafer check valves type 369

Attention:

- In conjunction with outlet flange adaptors, **flange rings for socket systems** must be used.

d (mm)	DN (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	D1 (mm)	D2 (mm)	r (mm)	e (mm)
40	32	**727 808 034**	1	0.172	64	30	11	80	37	50	3	3.7
50	40	**727 808 035**	1	0.096	67	30	12	90	43	61	3	4.6
63	50	**727 808 036**	1	0.157	74	30	14	105	54	76	4	5.8
75	65	**727 808 037**	1	0.223	78	30	16	125	70	90	4	6.8
90	80	**727 808 038**	1	0.325	87	35	17	140	82	108	4	8.2
110	100	**727 808 039**	1	0.475	102	41	18	160	105	131	4	10.0
140	125	**727 808 041**	1	0.899	124	47	25	190	130	165	4	12.7
160	150	**727 808 042**	1	1.246	149	52	25	215	158	188	4	14.6
225	200	**727 808 045**	1	2.638	180	55	32	270	206	248	4	20.5
280	250	**727 808 047**	1	4.088	240	63	35	325	259	308	4	25.4
315	300	**727 808 048**	1	4.960	272	66	35	375	308	346	4	28.6

Type A



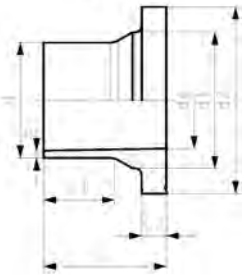
Type B



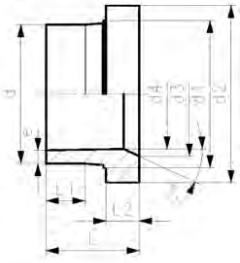
Type C



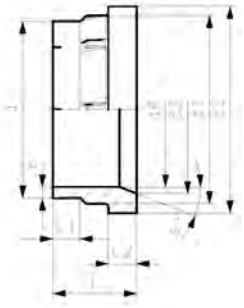
Type A



Type B



Type C



PROGEF Standard flange adaptor S5/SDR11 (PN10)
Combined jointing face: flat and serrated

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d315, suitable for butterfly valve type 567/578 and 038/039. Above use PROGEF Standard adaptor for butterfly valves SDR11 (d355-d500)
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07

* Material: PP-R, not suitable for butterfly valves

	d (mm)	DN (mm)	FM	Code	SP	Weight (kg)
	20	15	IR	**727 798 706**	10	0.015
	25	20	IR	**727 798 707**	10	0.029
	32	25	IR	**727 798 708**	10	0.042
	40	32	IR	**727 798 709**	10	0.061
	50	40	IR	**727 798 710**	20	0.091
	63	50	IR	**727 798 711**	10	0.144
	75	65	IR	**727 798 712**	1	0.243
	90	80	IR	**727 798 713**	12	0.324
	110	100	IR	**727 798 714**	1	0.441
	125	100	IR	**727 798 715**	8	0.520
	140	125	IR	**727 798 716**	10	0.800
	160	150	IR	**727 798 317**	4	0.927
	180	150	IR	**727 798 318**	3	1.026
	200	200	IR	**727 798 319**	2	1.652
	225	200	IR	**727 798 320**	2	1.665
	250	250	IR	**727 798 321**	1	2.630
	280	250	IR	**727 798 322**	1	2.521
	315	300	IR	**727 798 323**	1	3.247
*	355	350		**727 798 324**	1	6.600
*	400	400		**727 798 325**	1	9.100
*	450	500		**727 798 326**	1	17.300
*	500	500		**727 798 327**	1	18.400

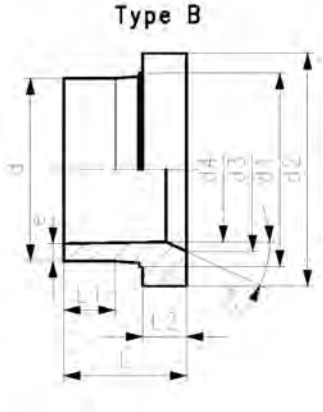
	d (mm)	L (mm)	L1 (mm)	L2 (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	e (mm)	Type	a°
	20	50	29	7	26	45		16	1.9	A	
	25	52	27	9	32	58		20	2.3	A	
	32	54	28	10	40	68		26	2.9	A	
	40	56	25	11	49	78		32	3.7	A	
	50	62	32	12	60	88		40	4.6	A	
	63	68	38	14	75	102		51	5.8	A	
	75	80	43	16	89	122	66	61	6.9	B	30
	90	80	41	17	105	138	78	73	8.2	B	30
	110	80	40	18	125	158	100	90	10.0	B	30
	125	82	35	25	132	158	114	102	11.4	B	25
	140	89	39	25	155	188	127	114	12.8	B	27
	160	92	40	25	175	212	151	127	14.6	C	30
	180	92	40	30	180	212	154	148	17.4	B	30
	200	100	35	32	232	268	203	174	19.3	C	30
	225	100	35	32	235	268	210	196	21.7	C	30
	250	120	45	35	285	320	252	203	24.0	C	25
	280	120	45	37	291	320	265	228	26.8	C	30
	315	150	50	50	335	370	300	256	30.2	C	22
*	355	162	70	40	373	430	342	284	33.9	C	45
*	400	172	70	46	427	482	387	320	38.2	C	45
*	450	225	105	60	514	585	400	360	43.0	C	15
*	500	231	105	60	530	585	442	400	47.8	C	15



PROGEF Standard Flange adaptor SDR11 (PN10) for butterfly valves
Jointing face flat

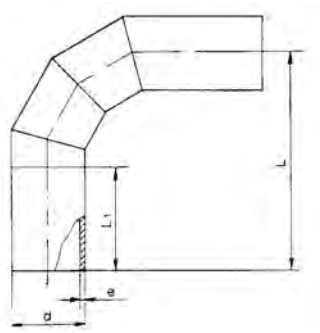
Model:

- Material: PP-R
- Conventional butt-welding according to DVS 2207
- Suitable for butterfly valve type 567/578 and 038/039



d (mm)	DN (mm)	Code	Weight (kg)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type	a°
355	350	**727 798 924**	7.300	373	430	350	284	187	70	65	33.9	B	25
400	400	**727 798 925**	10.200	427	482	400	320	196	70	70	38.2	B	25
450	500	**727 798 926**	17.900	467	533	450	360	272	105	107	43.0	B	23
500	500	**727 798 927**	20.100	530	585	498	400	261	105	90	47.8	B	25

Butt fusion fittings SRD 17.6



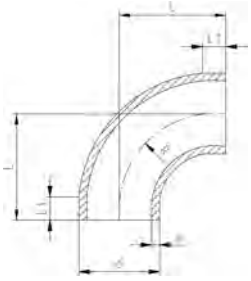
Bend 90°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 396**	315	150	6.3
125	**700 649 397**	338	150	7.1
140	**700 649 398**	360	150	8.0
160	**700 649 399**	390	150	9.1
180	**700 649 400**	420	150	10.2
200	**700 649 401**	450	150	11.4
225	**700 649 402**	488	150	12.8
250	**700 649 403**	625	250	14.2
280	**700 649 404**	670	250	15.9
315	**700 649 405**	773	300	17.9
355	**700 649 406**	833	300	20.1
400	**700 649 407**	900	300	22.7
450		975	300	25.5
500		1100	350	28.3
560		1190	350	31.7
630		1295	350	35.7







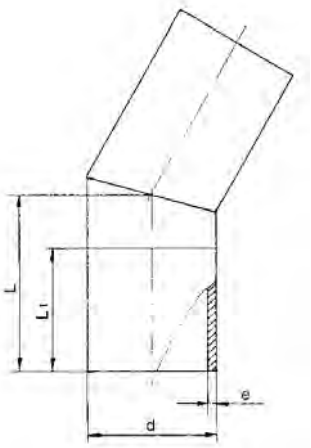
PROGEF Standard bend 90° S8.3/SDR17.6 (PN6)

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

* Material:PP-R

	Version	d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
	1	50	IR	**727 018 635**	0.050	58	21	37.00	3.0
	1	63	IR	**727 018 636**	0.081	66	21	45.00	3.8
	2	75	IR	**727 018 412**	0.128	75	21	71.25	4.8
	2	90	IR	**727 018 413**	0.222	90	22	85.50	5.7
	2	110	IR	**727 018 414**	0.396	110	25	104.50	6.9
	2	125	IR	**727 018 415**	0.556	125	28	116.00	7.8
	2	140	IR	**727 018 416**	0.785	140	33	131.00	8.7
	2	160	IR	**727 018 417**	1.156	160	33	151.00	9.9
	2	180	IR	**727 018 418**	1.619	180	33	171.00	11.1
	2	200	IR	**727 018 419**	2.208	200	33	190.00	12.4
	2	225	IR	**727 018 420**	3.039	220	33	210.00	13.9
	1	250	IR	**727 018 421**	4.359	256	48	232.00	15.4
	1	280	IR	**727 018 422**	6.696	286	48	262.00	17.2
	1	315	IR	**727 018 423**	8.580	321	48	297.00	19.3
*	2	355		**727 018 424**	11.640	345	70	330.00	21.2
*	2	400		**727 018 425**	15.200	365	70	350.00	23.9
*	2	450		**727 018 426**	22.240	425	70	400.00	26.9
*	2	500		**727 018 427**	31.020	470	90	445.00	29.8

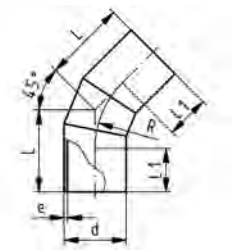


Bend 30°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d (mm)	Code	SP	L (mm)	L1 (mm)	e (mm)
110	**700 649 457**	0	194	150	6.3
125	**700 649 458**	0	200	150	7.1
140	**700 649 459**	0	206	150	8.0
160	**700 649 460**	0	214	150	9.1
180	**700 649 461**	0	222	150	10.2
200	**700 649 462**	0	230	150	11.4
225	**700 649 463**	0	241	150	12.8
250	**700 649 464**	0	350	250	14.2
280	**700 649 465**	0	362	250	15.9
315	**700 649 466**	0	428	300	17.9
355	**700 649 467**	0	443	300	20.1
400	**700 649 468**	0	461	300	22.7
450			481	300	25.5
500			551	350	28.3
560			575	350	31.7
630			603	350	35.7



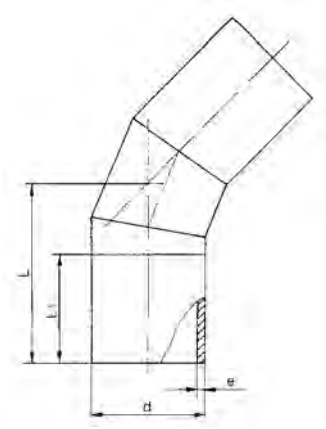


PROGEF Standard bend 45° S8.3/SDR17.6 (PN6)

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Production process: segment welded
- Segment-welded fittings have a pressure reduction factor of 0.8

d (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	R (mm)	e (mm)
355	**727 158 549**	0	21.000	520	300	533	20.1
400	**727 158 550**	0	28.100	548	300	600	22.7
450	**727 158 551**	0	37.400	580	300	675	25.5
500	**727 158 552**	0	52.600	665	350	750	28.4



Bend 45°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 432**	218	150	6.3
125	**700 649 433**	228	150	7.1
140	**700 649 434**	237	150	8.0
160	**700 649 435**	249	150	9.1
180	**700 649 436**	262	150	10.2
200	**700 649 437**	274	150	11.4
225	**700 649 438**	290	150	12.8
250	**700 649 439**	412	250	14.2
280	**700 649 440**	424	250	15.9
315	**700 649 441**	498	300	17.9
355	**700 649 442**	520	300	20.1
400	**700 649 443**	548	300	22.7
450		580	300	25.5
500		665	350	28.3
560		698	350	31.7
630		741	350	35.7





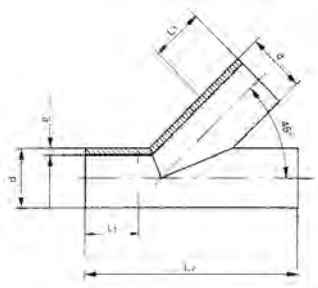
PROGEF Standard elbow 45° S8.3/SDR17.6 (PN6)

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

1) Material:PP-R
*Machined from S5/SDR11

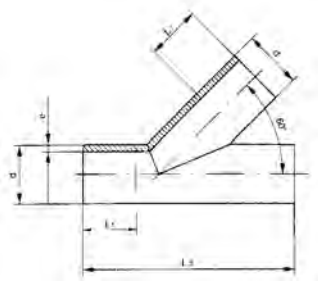
	d (mm)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	e (mm)
*	50	IR	**727 158 535**	10	0.042	42	26	2.9
*	63	IR	**727 158 536**	10	0.081	47	29	3.6
	75	IR	**727 158 412**	10	0.099	49	29	4.3
	90	IR	**727 158 413**	6	0.165	57	34	5.1
	110	IR	**727 158 414**	5	0.286	70	43	6.3
*	125	IR	**727 158 540**	4	0.570	79	48	7.1
*	140	IR	**727 158 541**	1	0.721	88	55	8.0
*	160	IR	**727 158 542**	1	1.107	100	60	9.1
*	200	IR	**727 158 544**	1	2.225	124	75	11.4
*	225	IR	**727 158 545**	1	3.194	140	85	12.8
1	250	IR	**727 158 546**	1	4.970	225	133	14.2
1	280	IR	**727 158 547**	1	7.130	235	143	15.9
1	315	IR	**727 158 548**	1	9.600	255	154	17.9



Branch 45°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,5

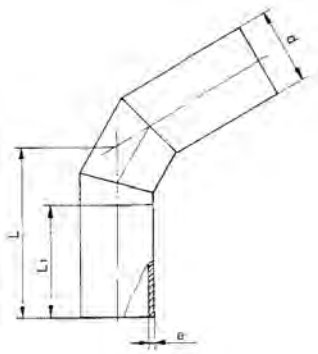
d (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	e (mm)
110	**700 649 648**	0	2.190	150	520	6.3
125	**700 649 649**	0	5.985	150	520	7.1
140	**700 649 650**	0	3.220	150	570	8.0
160	**700 649 651**	0	4.280	150	640	9.1
180	**700 649 652**	0	6.928	150	700	10.2
200	**700 649 653**	0	7.275	150	800	11.4
225	**700 649 654**	0	7.639	150	800	12.8
250	**700 649 655**	0	8.020	250	1000	14.2
280	**700 649 656**	0	8.421	250	1000	15.9
315	**700 649 657**	0	8.843	300	1300	17.9
355	**700 649 658**	0	9.285	300	1500	20.1
400	**700 649 659**	0	9.749	300	1500	22.7
450				300	1500	25.5



Branch 60°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,5

d (mm)	Code	SP	L1 (mm)	L2 (mm)	e (mm)
110	**700 649 672**	0	150	520	6.3
125	**700 649 673**	0	150	520	7.1
140	**700 649 674**	0	150	570	8.0
160	**700 649 675**	0	150	640	9.1
180	**700 649 676**	0	150	700	10.2
200	**700 649 677**	0	150	800	11.4
225	**700 649 678**	0	150	800	12.8
250	**700 649 679**	0	250	1000	14.2
280	**700 649 680**	0	250	1000	15.9
315	**700 649 681**	0	300	1300	17.9
355	**700 649 682**	0	300	1500	20.1
400	**700 649 683**	0	300	1500	22.7
450			300	1500	25.5



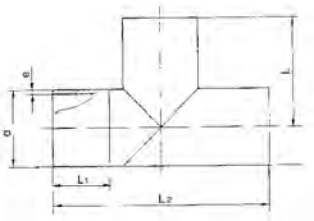
Bend 60°, PP-H S8/SDR17.6

- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d (mm)	Code	L (mm)	L1 (mm)	e (mm)
110	**700 649 408**	245	150	6.3
125	**700 649 409**	258	150	7.1
140	**700 649 410**	271	150	8.0
160	**700 649 411**	288	150	9.1
180	**700 649 412**	305	150	10.2
200	**700 649 413**	323	150	11.4
225	**700 649 414**	345	150	12.8
250	**700 649 415**	466	250	14.2
280	**700 649 416**	492	250	15.9
315	**700 649 417**	576	300	17.9
355	**700 649 418**	608	300	20.1

table continued on the next page

d (mm)	Code	L (mm)	L1 (mm)	e (mm)
400	**700 649 419**	646	300	22.7
450		689	300	25.5
500		783	350	28.3
560		835	350	31.7
630		896	350	35.7

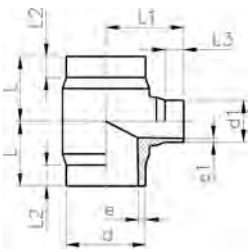


Tees 90°, equal, PP-H S8/SDR17.6

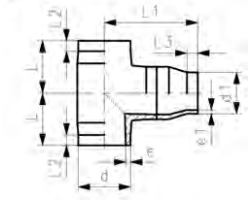
- For butt- and electro fusion
- Reducing factor = 0,6
- big dimensions on request

d (mm)	Code	L (mm)	L1 (mm)	L2 (mm)	e (mm)
110		205	150	410	6.3
125		215	150	430	7.1
140		220	150	440	8.0
160		230	150	460	9.1
180		240	150	480	10.2
200		250	150	500	11.4
225	**700 649 487**	265	150	530	12.8
250	**700 649 488**	375	250	750	14.2
280	**700 649 489**	390	250	780	15.9
315	**700 649 490**	460	300	920	17.9
355	**700 649 491**	480	300	960	20.1
400	**700 649 492**	500	300	1000	22.7
450		525	300	1050	25.5
500		600	350	1200	28.3
560		630	350	1260	31.7
630		665	350	1330	35.7





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PROGEF Standard tee 90° reduced S8.3/SDR17.6 (PN6)

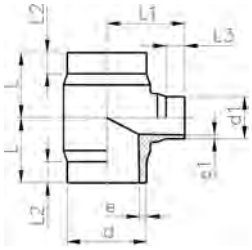
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

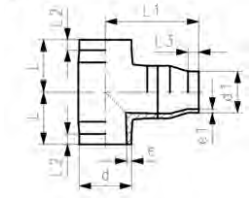
[1]with IR welded reducer
* Branch SDR11

	d (mm)	d1 (mm)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)
*	63	32	IR	**727 208 301**	10	0.120	65	70	25	25	3.6	2,9
	63	50	IR	**727 208 302**	10	0.124	65	70	25	25	3.6	2,9
*	75	32	IR	**727 208 303**	5	0.178	70	75	25	25	4.3	2,9
	75	50	IR	**727 208 304**	5	0.182	70	75	25	25	4.3	2,9
	75	63	IR	**727 208 305**	5	0.190	70	75	25	25	4.3	3,6
	90	50	IR	**727 208 307**	5	0.305	80	85	25	25	5.1	2,9
	90	63	IR	**727 208 308**	5	0.315	80	85	25	25	5.1	3,6
	90	75	IR	**727 208 309**	5	0.320	80	85	25	25	5.1	4,3
*	110	32	IR	**727 208 310**	5	0.489	90	95	30	25	6.3	2,9
	110	50	IR	**727 208 311**	5	0.490	90	95	30	25	6.3	2,9
	110	63	IR	**727 208 312**	5	0.491	90	95	30	25	6.3	3,6
	110	75	IR	**727 208 313**	5	0.500	90	95	30	25	6.3	4,3
	110	90	IR	**727 208 314**	5	0.514	90	95	30	25	6.3	5,1
1	125	63	IR	**727 208 015**	1	1.300	125	212	50	20	7.1	3,6
1	125	90	IR	**727 208 016**	1	1.400	125	229	50	41	7.1	5,1
1	125	110	IR	**727 208 017**	1	1.400	125	218	50	42	7.1	6,3
1	140	75	IR	**727 208 018**	1	2.000	160	255	63	41	8.0	4,3

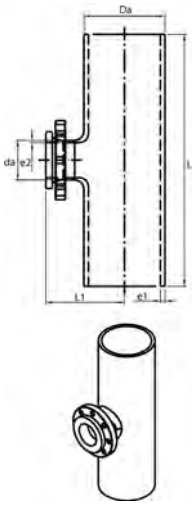
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	d (mm)	d1 (mm)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)
1	140	90	IR	**727 208 019**	1	2.100	160	251	63	42	8.0	5,1
1	140	110	IR	**727 208 020**	1	2.100	160	240	63	43	8.0	6,3
	160	63	IR	**727 208 321**	1	1.535	142	135	50	30	9.1	3,6
	160	75	IR	**727 208 322**	1	1.550	142	135	50	30	9.1	4,3
	160	90	IR	**727 208 323**	1	1.567	142	135	50	30	9.1	5,1
	160	110	IR	**727 208 324**	1	1.577	142	135	50	30	9.1	6,3
1	160	125	IR	**727 208 025**	1	2.800	163	275	60	32	9.1	7,1
1	200	160	IR	**727 208 035**	1	5.900	220	325	94	40	11.4	9,1
1	200	180	IR	**727 208 036**	1	6.000	220	325	94	54	11.4	10,2
	225	90	IR	**727 208 338**	1	3.350	155	165	40	30	12.8	5,1
	225	110	IR	**727 208 339**	1	3.330	155	165	40	30	12.8	6,3
	225	160	IR	**727 208 341**	1	3.427	155	165	40	30	12.8	9,1
1	250	160	IR	**727 208 043**	1	8.900	225	389	67	52	14.2	9,1

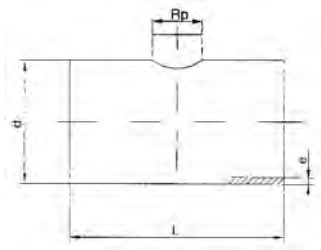


Revision Tees 90°, PP-H SDR17.6

Model:

- Flued and butt fusion according to DVS2207
- Backing flanges to ISO 7005, EN 1092, DIN 2501, bolt circle PN10
- Reducing factor = 0,6
- big dimensions on request

d (mm)	d1 (mm)	PN (bar)	Code	SP	L (mm)	L1 (mm)	e1 (mm)	e2 (mm)
110	110	6	**700 647 267**	0	500	236	6,3	6,3
125	125	6	**700 647 268**	0	500	248	7,1	7,1
140	140	6	**700 647 269**	0	500	265	8,0	8,0
160	110	6	**700 647 270**	0	500	278	9,1	6,3
180	110	6	**700 665 644**	0	500	350	10,2	6,3
200	140	6	**700 665 645**	0	500	350	11,4	8,0
225	140	6	**700 665 646**	0	560	400	12,8	8,0
250	160	6	**700 665 647**	0	750	450	14,2	9,1
280	225	6	**700 665 648**	0	750	350	15,9	12,8
315	225	6	**700 665 649**	0	850	400	17,9	12,8
355	225	6	**700 665 650**	0	950	450	20,1	12,8
400	225	6	**700 665 651**	0	1000	450	22,7	12,8
450	315	6	**700 665 652**	0	1100	500	25,5	17,9
500	315	6	**700 665 653**	0	1200	500	28,4	17,9
560	315	6	**700 665 654**	0	1300	550	31,7	17,9
630	315	6	**700 665 655**	0	1450	550	35,7	17,9



Saddle-Tee, PP-H S8/SDR17.6 Outlet with female thread Rp, welded

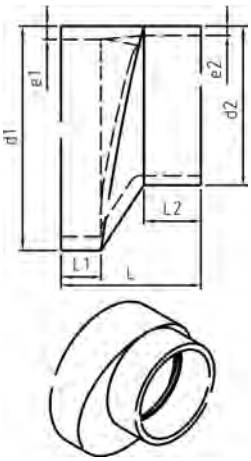
- For butt- and electro fusion
- Reduction factor = 0,8
- big dimensions on request

d (mm)	Thread 1" Code	Thread 11/4" Code	Weight (kg)	L (mm)	e (mm)
110	**700 649 612**	**700 649 624**	14.000	260	6.3
125	**700 649 613**	**700 649 625**	14.700	260	7.1
140	**700 649 614**	**700 649 626**	15.435	260	8.0
160	**700 649 615**	**700 649 627**	16.207	260	9.1
180	**700 649 616**	**700 649 628**	17.017	360	10.2
200	**700 649 617**	**700 649 629**	17.868	360	11.4
225	**700 649 618**	**700 649 630**	0.500	360	12.8

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d (mm)	Thread 1" Code	Thread 11/4" Code	Weight (kg)	L (mm)	e (mm)
250	**700 649 619**	**700 649 631**	19.699	360	14.2
280	**700 649 620**	**700 649 632**	20.684	360	15.9
315	**700 649 621**	**700 649 633**	21.719	360	17.9
355	**700 649 622**	**700 649 634**	22.805	460	20.1
400	**700 649 623**	**700 649 635**	23.945	460	22.7





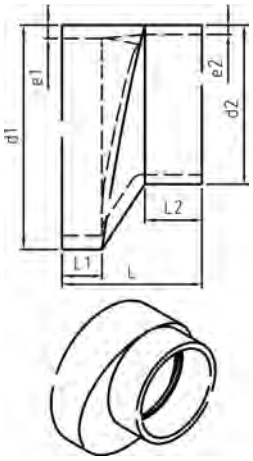
Reducing Bushes excentric, PP-H SDR17.6

Model:

- Machined
- Conventional butt fusion according to DVS2207

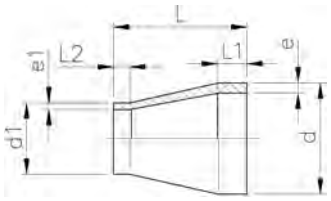
d1 (mm)	d2 (mm)	PN (bar)	Code	SP	Weight (kg)	e1 (mm)	L1 (mm)	L (mm)	L2 (mm)	e2 (mm)
63	50	6	**700 647 750**	0	0.020	3,6	35	120	35	2,9
75	50	6	**700 647 751**	0	0.041	4,3	40	120	35	2,9
75	63	6	**700 647 752**	0	0.048	4,3	40	120	35	3,6
90	63	6	**700 647 753**	0	0.079	5,1	50	140	50	3,6
90	75	6	**700 647 754**	0	0.090	5,1	50	140	50	4,3
110	75	6	**700 647 755**	0	1.000	6,3	50	140	50	4,3
110	90	6	**700 647 756**	0	0.158	6,3	50	140	50	5,1
125	90	6	**700 647 757**	0	0.190	7,1	50	140	50	5,1
125	110	6	**700 647 758**	0	0.215	7,1	50	140	50	6,3
140	90	6	**700 647 759**	0	0.308	8,0	50	140	50	5,1
140	110	6	**700 647 760**	0	0.338	8,0	50	140	50	6,3
160	90	6	**700 647 761**	0	1.000	9,5	50	140	54	5,4
160	110	6	**700 647 762**	0	0.454	9,5	40	120	45	6,6
160	125	6	**700 647 763**	0	0.071	9,5	40	110	44	7,4
160	140	6	**700 647 764**	0	0.482	9,5	40	90	33	8,3
180	125	6	**700 647 765**	0	0.596	10,7	40	130	52	7,4
180	140	6	**700 647 766**	0	0.632	10,7	40	110	41	8,3
180	160	6	**700 647 767**	0	0.677	10,7	40	90	33	9,5
200	140	6	**700 647 768**	0	0.805	11,9	40	140	50	8,3
200	160	6	**700 647 769**	0	0.822	11,9	40	120	41	9,5
200	180	6	**700 647 770**	0	0.894	11,9	40	100	43	10,7
225	160	6	**700 647 771**	0	1.083	13,4	40	140	57	9,5
225	180	6	**700 647 772**	0	1.337	13,4	40	120	48	10,7
225	200	6	**700 647 773**	0	1.884	13,4	40	100	40	11,9
250	180	6	**700 647 774**	0	2.100	14,8	40	150	54	10,7
250	200	6	**700 647 775**	0	2.189	14,8	40	130	55	11,9
250	225	6	**700 647 776**	0	2.370	14,8	40	110	40	13,4
280	200	6	**700 647 777**	0	2.820	16,6	40	160	58	11,9
280	225	6	**700 647 778**	0	2.854	16,6	40	130	52	13,4
280	250	6	**700 647 779**	0	2.980	16,6	40	110	47	14,8
315	225	6	**700 647 780**	0	3.010	18,7	40	160	62	13,4
315	250	6	**700 647 781**	0	3.158	18,7	40	140	57	14,8
315	280	6	**700 647 782**	0	3.500	18,7	40	120	54	16,6
355	250	6	**700 647 783**	0	1.000	21,1	40	180	74	14,8
355	280	6	**700 647 784**	0	3.800	21,1	40	150	61	16,6
355	315	6	**700 647 785**	0	4.200	21,1	40	120	51	18,7
400	280	6	**700 647 786**	0	5.580	23,7	40	200	85	16,6
400	315	6	**700 647 787**	0	5.800	23,7	40	170	75	18,7
400	355	6	**700 647 788**	0	6.310	23,7	40	130	58	21,1
450	315	6	**700 647 789**	0	6.540	26,7	40	210	86	18,7
450	355	6	**700 647 790**	0	7.210	26,7	40	180	79	21,1
450	400	6	**700 647 791**	0	7.900	26,7	40	140	65	23,7
500	315	6	**700 647 792**	0	8.450	29,7	40	260	107	18,7
500	355	6	**700 647 793**	0	9.124	29,7	40	220	91	21,1
500	400	6	**700 647 794**	0	9.450	29,7	40	190	86	23,7
500	450	6	**700 647 795**	0	11.850	29,7	40	140	65	26,7

table continued on the next page



d1 (mm)	d2 (mm)	PN (bar)	Code	SP	Weight (kg)	e1 (mm)	L1 (mm)	L (mm)	L2 (mm)	e2 (mm)
560	450	6	**700 647 796**	0	12.600	33,2	40	200	91	26,7
560	500	6	**700 647 797**	0	13.650	33,2	40	150	70	29,7
630	500	6	**700 647 798**	0	14.800	37,4	40	220	99	29,7
630	560	6	**700 647 799**	0	15.240	37,4	40	170	84	33,2





PROGEF Standard reducer S5/SDR11 (PN10)

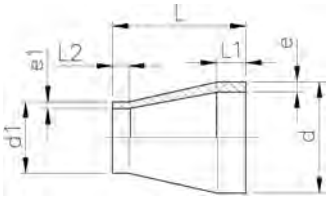
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

Material:PP-R

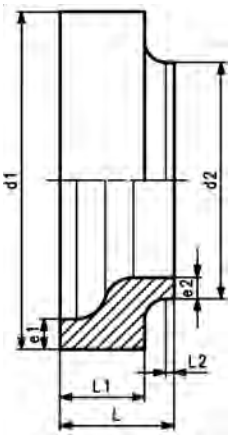
d (mm)	d1 (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
25	20	IR	**727 908 537**	0.007	50	20	20	2.3	1.9
32	20	IR	**727 908 542**	0.010	50	20	20	2.9	1.9
32	25	IR	**727 908 541**	0.010	50	20	20	2.9	2.3
40	20	IR	**727 908 548**	0.016	58	20	23	3.7	1.9
40	25	IR	**727 908 547**	0.016	55	20	20	3.7	2.3
40	32	IR	**727 908 546**	0.018	55	20	20	3.7	2.9
50	25	IR	**727 908 554**	0.024	60	20	20	4.6	2.3
50	32	IR	**727 908 553**	0.027	60	20	20	4.6	2.9
50	40	IR	**727 908 552**	0.030	60	20	20	4.6	3.7
63	32	IR	**727 908 560**	0.043	65	20	20	5.8	2.9
63	40	IR	**727 908 559**	0.047	65	20	20	5.8	3.7
63	50	IR	**727 908 558**	0.051	65	20	20	5.8	4.6
75	40	IR	**727 908 566**	0.062	68	20	20	6.8	3.7
75	50	IR	**727 908 565**	0.071	65	20	20	6.8	4.6
75	63	IR	**727 908 564**	0.075	65	20	20	6.8	5.8
90	63	IR	**727 908 571**	0.115	75	22	19	8.2	5.8
90	75	IR	**727 908 570**	0.130	75	22	19	8.2	6.8
110	63	IR	**727 908 572**	0.201	90	28	28	10.6	6.2
110	75	IR	**727 908 577**	0.215	90	28	18	10.0	6.8
110	90	IR	**727 908 576**	0.225	90	28	30	10.0	8.2
125	110	IR	**727 908 580**	0.335	100	32	30	11.4	10.0
140	110	IR	**727 908 585**	0.423	110	33	29	12.7	10.0
140	125	IR	**727 908 584**	0.462	110	34	30	12.7	11.4
160	110	IR	**727 908 590**	0.586	120	39	27	14.6	10.0
160	140	IR	**727 908 588**	0.647	120	40	35	14.6	12.7
180	90	IR	**727 908 149**	0.800	145	50	40	16.4	8.8
180	110	IR	**727 908 150**	1.010	150	50	40	16.4	10.0
180	125	IR	**727 908 151**	0.985	145	52	40	16.4	11.4
180	140	IR	**727 908 152**	0.995	135	51	47	16.4	12.7
180	160	IR	**727 908 153**	1.020	135	55	52	16.4	14.6
200	160	IR	**727 908 592**	1.149	145	50	40	18.2	14.6
200	180	IR	**727 908 158**	1.300	145	50	45	18.2	16.4
225	110	IR	**727 908 595**	1.485	160	55	35	20.5	10.0
225	160	IR	**727 908 596**	1.590	160	55	40	20.5	14.6
225	180	IR	**727 908 162**	1.770	163	60	58	20.5	16.4
225	200	IR	**727 908 597**	1.723	160	55	50	20.5	18.2

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	d (mm)	d1 (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
	250	160	IR	**727 908 165**	2.140	170	63	53	22.7	14.6
	250	225	IR	**727 908 168**	2.750	180	65	65	22.7	20.5
	280	225	IR	**727 908 172**	3.425	203	72	57	25.4	20.5
	280	250	IR	**727 908 173**	1.980	206	75	60	25.4	22.7
	315	225	IR	**727 908 176**	5.110	237	84	60	28.6	20.5
	315	250	IR	**727 908 177**	5.105	231	86	63	28.6	22.7
	315	280	IR	**727 908 178**	5.130	222	80	70	28.6	25.4
1	355	250		**727 908 963**	5.490	245	90	60	32.3	22.7
1	355	280		**727 908 962**	5.462	245	90	70	32.2	25.4
1	355	315		**727 908 961**	3.700	245	90	80	32.2	28.6
1	400	315		**727 908 966**	5.300	260	95	80	36.3	28.6
1	400	355		**727 908 965**	4.800	260	95	90	36.3	32.2
	450	280		**727 908 960**	9.000	230	60	70	40.9	25.4
	450	315		**727 908 948**	8.000	230	60	80	40.9	28.6
	450	355		**727 908 950**	7.400	230	60	90	40.9	32.2
	450	400		**727 908 951**	6.000	230	60	95	40.9	36.3
	500	315		**727 908 953**	12.000	230	60	80	45.4	28.6
	500	355		**727 908 954**	10.800	230	60	90	45.4	32.2
	500	400		**727 908 956**	10.000	230	60	95	45.4	36.3
	500	450		**727 908 964**	8.300	230	60	60	45.4	40.9





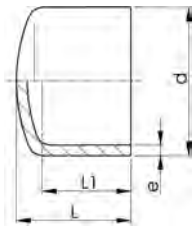
PROGEF Standard flush style reducer SDR17.6 (PN6)

Model:

- Material: PP-H
- Flush style design
- Conventional butt-welding according to DVS 2207
- Clamping on welding machine needs to be done always on the bigger diameter (d1)
- The butt fusion machine must be suitable to weld both dimensions (d1 and d2)

d1 (mm)	d2 (mm)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e1 (mm)	e2 (mm)
355	225	**727 909 859**	3.736	120	85	10	21.1	13.4
355	250	**727 909 860**	3.160	115	80	10	20.1	14.2
355	280	**727 909 861**	2.946	115	80	10	20.1	15.9
355	315	**727 909 862**	2.587	115	80	15	20.1	17.9
400	225	**727 909 866**	6.000	135	100	10	23.7	13.4
400	250	**727 909 867**	5.732	135	100	10	23.7	14.8
400	280	**727 909 868**	5.388	135	100	10	23.7	16.6
400	315	**727 909 869**	4.880	135	100	10	22.7	17.9
400	355	**727 909 870**	4.395	135	100	13	22.7	20.1
450	225	**727 909 872**	8.881	150	110	10	26.7	13.4
450	250	**727 909 873**	8.577	150	110	10	26.7	14.8
450	280	**727 909 874**	7.684	150	100	15	25.5	15.9
450	315	**727 909 875**	7.005	150	100	15	25.5	17.9
450	355	**727 909 876**	6.405	150	100	15	25.5	20.1
450	400	**727 909 877**	5.942	150	100	15	25.5	22.7
500	225	**727 909 879**	11.545	165	115	10	29.7	13.4
500	250	**727 909 880**	11.273	165	115	10	29.7	14.8
500	280	**727 909 881**	10.916	165	115	10	29.7	16.6
500	315	**727 909 882**	10.003	165	115	10	28.4	17.9
500	355	**727 909 883**	9.672	165	115	10	28.4	20.1
500	400	**727 909 884**	8.231	165	115	10	28.4	22.7
500	450	**727 909 885**	7.599	165	115	25	28.4	25.5





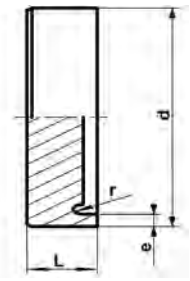
PROGEF Standard end cap S8.3/SDR17.6 (PN6)

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared-(IR Plus®) compatible. Choose fusion parameters: PP-H

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
50	IR	**727 968 710**	0.036	72	59	2.9
63	IR	**727 968 711**	0.061	83	66	3.6
75	IR	**727 968 712**	0.095	94	73	4.3
90	IR	**727 968 713**	0.160	110	83	5.1
110	IR	**727 968 714**	0.260	123	88	6.3
125	IR	**727 968 715**	0.360	127	92	7.1
140	IR	**727 968 716**	0.485	136	97	8.0
160	IR	**727 968 717**	0.735	161	109	9.1
180	IR	**727 968 718**	0.990	166	114	10.2
200	IR	**727 968 719**	1.310	179	117	11.4
225	IR	**727 968 720**	1.790	203	129	12.8



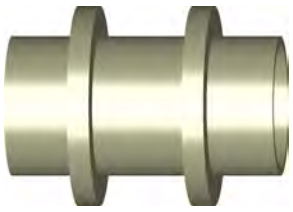


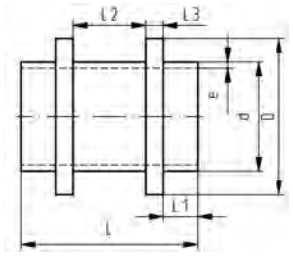
PROGEF Standard end cap S8.3/SDR17.6 (PN6)

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Machined

d (mm)	Code	SP	Weight (kg)	L (mm)	e (mm)
250	**727 968 821**	1	1.600	55	14.2
280	**727 968 822**	1	2.100	60	15.9
315	**727 968 823**	1	3.000	65	17.9
355	**727 968 824**	1	4.200	70	20.1
400	**727 968 825**	1	6.000	75	22.7
450	**727 968 826**	1	8.600	85	25.5
500	**727 968 827**	1	11.600	90	28.3





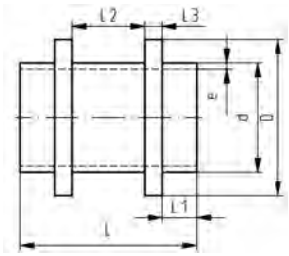
PROGEF Standard fixpoint fitting S8.3/SDR17.6 (PN6)

Model:

- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207
- Machined

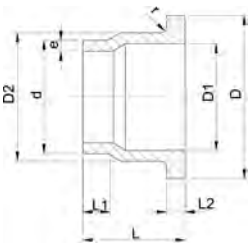
d (mm)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	e (mm)
63	IR	**727 665 539**	16	0.138	122	30	42	10	90	3.8
75	IR	**727 665 540**	14	0.203	122	30	42	10	110	4.5
90	IR	**727 665 541**	12	0.267	122	30	42	10	125	5.4
110	IR	**727 665 542**	6	0.438	142	30	52	15	140	6.6
125	IR	**727 665 543**	5	0.592	152	35	52	15	160	7.4
140	IR	**727 665 544**	3	0.781	162	40	52	15	180	8.3
160	IR	**727 665 545**	4	0.971	162	40	52	15	200	9.5
180	IR	**727 665 546**	3	1.464	182	45	52	20	225	10.7
200	IR	**727 665 547**	2	1.808	182	45	52	20	250	11.9
225	IR	**727 665 548**	1	2.549	192	45	52	25	280	13.4
250	IR	**727 665 549**	1	2.678	212	50	62	25	280	14.8
280	IR	**727 665 550**	1	3.668	222	50	62	30	315	16.6

table continued on the next page



d (mm)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	e (mm)
315	IR	**727 665 551**	1	4.666	222	50	62	30	355	18.7
355		**727 665 552**	1	5.567	192	30	62	35	400	21.1
400		**727 665 553**	1	7.835	212	30	72	40	450	23.7
450		**727 665 554**	1	10.552	232	35	72	45	500	26.7
500		**727 665 555**	1	14.608	252	40	72	50	560	29.7





PROGEF Standard outlet flange adaptor S8.3/SDR17.6 (PN6)

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- To wafer check valves type 369

Attention:

- In conjunction with outlet flange adaptors, **flange rings for socket systems** must be used.

d (mm)	DN (mm)	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	D1 (mm)	D2 (mm)	r (mm)	e (mm)
40	32	**727 808 009**	0.048	64	30	11	80	37	50	3	2.3
50	40	**727 808 010**	0.091	67	30	12	90	43	61	3	2.9
63	50	**727 808 011**	0.096	74	30	14	105	54	76	4	3.6
75	65	**727 808 012**	0.170	78	30	16	125	70	90	4	4.3
90	80	**727 808 013**	0.260	87	35	17	140	82	108	4	5.1
110	100	**727 808 014**	0.429	102	41	18	160	105	131	4	6.3
140	125	**727 808 016**	0.808	124	47	18	190	130	165	4	8.0
160	150	**727 808 017**	1.107	149	52	18	215	158	188	4	9.1
225	200	**727 808 020**	2.324	180	55	24	270	206	248	4	12.7
280	250	**727 808 022**	3.563	240	63	25	325	259	308	4	15.9
315	300	**727 808 023**	2.450	272	66	25	375	308	346	4	17.9

Type A



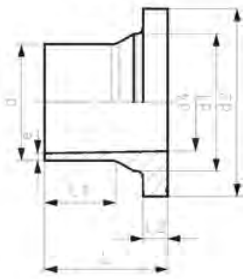
Type B



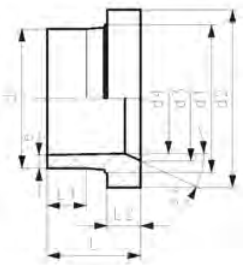
Type C



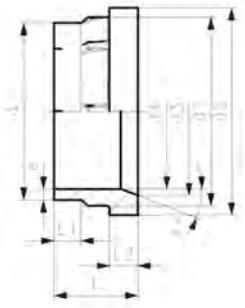
Type A



Type B



Type C



PROGEF Standard flange adaptor S8.3/SDR17.6 (PN6)
Combined jointing face: flat and serrated

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR- Infrared welding compatible
- Suitable for flange connections to metric (from d110 also to ANSI/ASME B16.5)
- Up to d400, suitable for butterfly valve type 567/578 and 038/039. Above use PROGEF Standard adaptor for butterfly valves SDR17.6 (d450-d500)
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07

* Material:PP-R
**Material: PP-R, not suitable for butterfly valves

	d (mm)	DN (mm)	FM	Code	Weight (kg)
	50	40	IR	**727 798 210**	0.077
	63	50	IR	**727 798 211**	0.116
	75	65	IR	**727 798 787**	0.204
	90	80	IR	**727 798 788**	0.273
	110	100	IR	**727 798 789**	0.361
	125	100	IR	**727 798 215**	0.386
	140	125	IR	**727 798 216**	0.597
	160	150	IR	**727 798 217**	0.669
	180	150	IR	**727 798 218**	0.630
	200	200	IR	**727 798 219**	1.268
	225	200	IR	**727 798 220**	1.330
	250	250	IR	**727 798 221**	2.130
	280	250	IR	**727 798 222**	1.785
	315	300	IR	**727 798 223**	2.499
*	355	350		**727 798 224**	4.600
*	400	400		**727 798 225**	6.100
**	450	500		**727 798 226**	12.100
**	500	500		**727 798 227**	12.700

	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type	a°
	60	88		44	62	32	12	3.0	A	
	75	102		55	68	38	14	3.8	A	
	89	122		63	80	43	16	4.5	A	
	105	138		78	80	42	17	5.4	A	
	125	158		94	80	42	18	6.6	A	
	132	158	114	110	82	35	25	7.4	B	25.0
	155	188	127	123	89	39	25	8.3	B	27.0
	175	212	158	138	92	47	18	9.5	C	30.0
	180	212		158	92	45	20	10.7	A	
	232	268	203	174	100	42	24	11.9	C	30.0
	235	268	210	196	100	42	24	13.4	C	30.0
	285	320	252	221	120	45	25	14.8	C	25.0
	291	320	265	247	120	45	35	16.6	C	30.0
	335	370	300	278	150	50	50	18.7	C	21.0
*	373	430	346	310	155	70	33	21.1	C	21.0
*	427	482	395	350	162	70	36	23.7	C	21.0
**	514	585	400	400	211	105	46	26.7	C	4.0
**	530	585	442	442	217	105	46	29.7	C	1.5

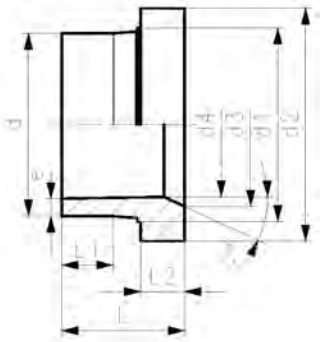


PROGEF Standard Flange adaptor for butterfly valves SDR17.6 (PN6)
Jointing face flat

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- Suitable for butterfly valve type 567/578 and 038/039

Type B



d (mm)	DN (mm)	Code	Weight (kg)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	Type	a°
450	500	**727 798 951**	10.200	467	533	450	397	224	105	59	27.5	B	23
500	500	**727 798 952**	11.500	530	585	498	440	217	105	46	30.5	B	25





PROGEF Standard tee 90° equal S5/SDR11 (PN10)

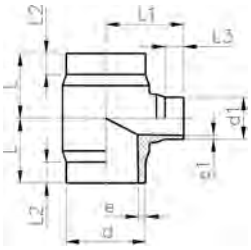
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

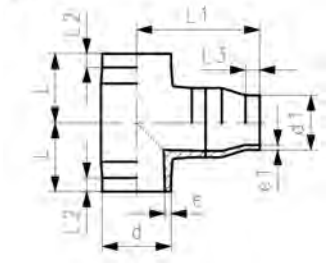
[1] Material: PP-R

	d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
	20	IR	**727 208 506**	0.011	38	21	1.9
	25	IR	**727 208 507**	0.018	42	21	2.3
	32	IR	**727 208 508**	0.032	46	21	2.9
	40	IR	**727 208 509**	0.062	51	23	3.7
	50	IR	**727 208 510**	0.105	58	22	4.6
	63	IR	**727 208 511**	0.186	66	20	5.8
	75	IR	**727 208 512**	0.293	75	20	6.8
	90	IR	**727 208 513**	0.521	90	20	8.2
	110	IR	**727 208 514**	0.928	110	20	10.0
	125	IR	**727 208 515**	1.347	125	25	11.4
	140	IR	**727 208 516**	1.923	140	28	12.7
	160	IR	**727 208 517**	2.844	160	28	14.6
	180	IR	**727 208 518**	5.475	215	94	16.4
	200	IR	**727 208 519**	5.579	200	35	18.2
	225	IR	**727 208 520**	7.812	220	35	20.5
	250	IR	**727 208 521**	10.400	227	68	22.7
	280	IR	**727 208 522**	15.170	267	87	25.4
	315	IR	**727 208 523**	20.330	283	86	28.6
1	355	--	**727 208 524**	31.100	345	105	32.2
1	400	--	**727 208 525**	40.900	365	105	36.3
1	450	--	**727 208 526**	60.300	425	135	40.9
1	500	--	**727 208 527**	81.900	470	155	45.4





1



PROGEF Standard tee 90° reduced S5/SDR11

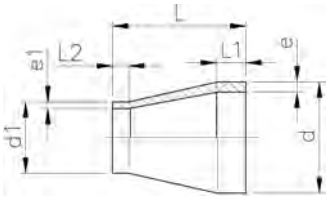
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

[1]with IR welded reducer

	d (mm)	d1 (mm)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)
	63	32	IR	**727 208 351**	10	0.161	65	70	25	25	5.8	2.9
	63	40	IR	**727 208 350**	10	0.165	65	70	25	25	5.8	3.7
	63	50	IR	**727 208 352**	10	0.170	65	70	25	25	5.8	4.6
	75	32	IR	**727 208 353**	5	0.238	70	75	25	25	6.8	2.9
	75	50	IR	**727 208 354**	5	0.249	70	75	25	25	6.8	4.6
	75	63	IR	**727 208 355**	5	0.258	70	75	25	25	6.8	5.8
	90	50	IR	**727 208 357**	5	0.420	80	85	25	25	8.2	4.6
	90	63	IR	**727 208 358**	5	0.428	80	85	25	25	8.2	5.8
	90	75	IR	**727 208 359**	5	0.430	80	85	25	25	8.2	6.8
	110	32	IR	**727 208 360**	5	0.652	90	95	30	25	10.0	2.9
	110	50	IR	**727 208 361**	5	0.659	90	95	30	25	10.0	4.6
	110	63	IR	**727 208 362**	5	0.665	90	95	30	25	10.0	5.8
	110	75	IR	**727 208 363**	1	0.681	90	95	30	25	10.0	6.8
	110	90	IR	**727 208 364**	1	0.701	90	95	30	25	10.0	8.2
1	125	63	IR	**727 208 365**	1	1.680	125	232	25	16	11.4	5.8
1	125	90	IR	**727 208 066**	1	1.700	125	225	25	40	11.4	8.2
1	125	110	IR	**727 208 367**	1	1.700	125	220	25	30	11.4	10.0
1	140	75	IR	**727 208 068**	1	2.400	140	245	28	41	12.7	6.8
1	140	90	IR	**727 208 069**	1	2.358	140	240	28	40	12.7	8.2
1	140	110	IR	**727 208 370**	1	2.380	140	245	28	33	12.7	10.0
	160	63	IR	**727 208 371**	1	2.130	142	135	50	30	14.6	5.8
	160	75	IR	**727 208 372**	1	2.143	142	135	50	30	14.6	6.8
	160	90	IR	**727 208 373**	1	2.148	142	135	50	30	14.6	8.2
	160	110	IR	**727 208 374**	1	2.186	142	135	50	30	14.6	10.0
	160	125	IR	**727 208 075**	1	3.600	160	272	28	32	14.6	11.4
1	200	160	IR	**727 208 385**	1	6.632	200	295	35	40	18.2	14.6
	200	180	IR	**727 208 086**	1	6.900	200	335	35	45	18.2	16.4
	225	90	IR	**727 208 388**	1	4.576	155	165	40	30	20.5	8.2
	225	110	IR	**727 208 389**	1	4.624	155	165	40	30	20.5	10.0
	225	160	IR	**727 208 391**	1	4.685	155	165	40	30	20.5	14.6
	250	160		**727 208 093**	1	12.500	227	387	68	53	22.7	14.6





PROGEF Standard reducer S8.3/SDR17.6 (PN6)

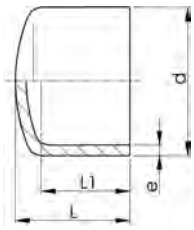
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

[1] Material: PP-R

	d (mm)	d1 (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	e1 (mm)
	50	40	IR	**727 908 713**	0.018	134	56	52	2.9	2,3
	63	40	IR	**727 908 901**	0.020	65	16	12	3.6	2,3
	63	50	IR	**727 908 718**	0.055	87	29	27	3.6	2,9
	75	40	IR	**727 908 904**	0.041	65	20	20	4.3	2,3
	75	50	IR	**727 908 465**	0.047	65	20	20	4.8	3,2
	75	63	IR	**727 908 464**	0.053	65	20	20	4.3	3,6
	90	63	IR	**727 908 471**	0.079	75	22	19	5.1	3,6
	90	75	IR	**727 908 470**	0.090	75	21	19	5.1	4,3
	110	63	IR	**727 908 472**	0.149	90	28	28	6.9	4.0
	110	75	IR	**727 908 477**	0.149	90	28	18	6.3	4,3
	110	90	IR	**727 908 476**	0.158	90	28	20	6.3	5,1
	125	110	IR	**727 908 738**	0.250	103	42	42	7.1	6,3
	140	110	IR	**727 908 742**	0.320	120	53	43	8.0	6,3
	140	125	IR	**727 908 916**	0.353	115	35	32	8.0	7,1
	160	110	IR	**727 908 746**	0.500	129	40	34	9.1	6,3
	160	140	IR	**727 908 748**	0.560	125	49	38	9.1	8,0
	180	90	IR	**727 908 749**	0.600	145	53	42	10.2	5,1
	180	110	IR	**727 908 750**	0.620	150	55	42	10.2	6,3
	180	125	IR	**727 908 751**	0.620	143	52	40	10.2	7,1
	180	140	IR	**727 908 752**	0.640	135	51	47	10.2	8,0
	180	160	IR	**727 908 753**	0.700	135	55	52	10.2	9,1
	200	160	IR	**727 908 930**	0.805	151	50	40	11.4	9,1
	200	180	IR	**727 908 758**	0.920	145	62	54	11.4	10,2
	225	110	IR	**727 908 936**	1.001	160	55	35	12.8	6,3
	225	160	IR	**727 908 934**	1.082	160	55	40	12.8	9,1
	225	180	IR	**727 908 762**	1.160	166	64	57	12.8	10,2
	225	200	IR	**727 908 932**	1.184	160	55	50	12.8	11,4
	250	160	IR	**727 908 765**	1.530	174	64	52	14.2	9,1
	250	225	IR	**727 908 768**	1.890	180	65	65	14.2	12,8
1	280	225	IR	**727 908 772**	2.370	200	70	55	15.9	12,8
1	280	250	IR	**727 908 773**	2.540	200	73	62	15.9	14,2
1	315	225	IR	**727 908 776**	3.320	237	84	59	17.9	12,8
1	315	250	IR	**727 908 777**	3.375	233	84	64	17.9	14,2
1	315	280	IR	**727 908 778**	3.510	227	85	72	17.9	15,9
1	355	315	IR	**727 908 957**	2.400	245	90	80	20.1	17,9
1	400	315	--	**727 908 972**	3.600	260	95	80	22.7	17,9
1	400	355	--	**727 908 971**	3.100	260	95	90	22.7	20,1
	450	280	--	**727 908 967**	6.000	230	60	70	25.5	15,9
	450	315	--	**727 908 984**	5.400	230	60	80	25.5	17,9
	450	355	--	**727 908 988**	5.000	230	60	90	25.5	20,1
	450	400	--	**727 908 989**	5.000	230	60	95	25.5	22,7
	500	315	--	**727 908 993**	8.100	230	60	80	28.4	17,9
	500	355	--	**727 908 994**	7.300	230	60	95	28.4	20,1
	500	400	--	**727 908 998**	6.700	230	60	95	28.4	22,7
	500	450	--	**727 908 999**	5.500	230	60	60	28.4	25,5





PROGEF Standard end cap S5/SDR11 (PN10)

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	IR	**727 968 106**	0.005	49	42	1.9
25	IR	**727 968 107**	0.007	52	42	2.3
32	IR	**727 968 108**	0.016	57	47	2.9
40	IR	**727 968 109**	0.023	64	51	3.7
50	IR	**727 968 110**	0.048	72	59	4.6
63	IR	**727 968 111**	0.087	86	67	5.8
75	IR	**727 968 112**	0.138	94	73	6.8
90	IR	**727 968 113**	0.222	112	83	8.2
110	IR	**727 968 114**	0.375	124	90	10.0
125	IR	**727 968 115**	0.520	130	94	11.4
140	IR	**727 968 116**	0.695	142	99	12.7
160	IR	**727 968 117**	1.040	162	109	14.6
180	IR	**727 968 118**	1.375	170	113	16.4
200	IR	**727 968 119**	1.860	179	117	18.2
225	IR	**727 968 120**	2.625	203	127	20.5





PROGEF Standard tee 90° equal S8.3/SDR17.6 (PN6)

Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207
- IR = Infrared welding compatible

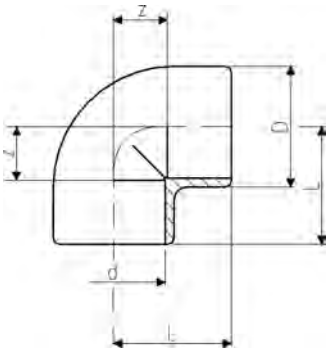
Note:

[1]Material: PP-R

	d (mm)	FM	Code	Weight (kg)	L (mm)	L1 (mm)	e (mm)
	50	IR	**727 208 410**	0.084	92	57	2.9
	63	IR	**727 208 411**	0.172	107	64	3.6
	75	IR	**727 208 412**	0.212	75	20	4.3
	90	IR	**727 208 413**	0.396	90	20	5.1
	110	IR	**727 208 414**	0.705	110	20	6.3
	125	IR	**727 208 415**	1.154	125	50	7.1
	140	IR	**727 208 416**	1.765	160	63	8.0
	160	IR	**727 208 417**	2.335	163	60	9.1
	180	IR	**727 208 418**	4.000	217	97	10.2
	200	IR	**727 208 419**	5.060	220	94	11.4
	225	IR	**727 208 420**	6.870	227	75	12.8
	250	IR	**727 208 421**	7.410	225	67	14.2
	280	IR	**727 208 422**	10.680	266	88	15.9
	315	IR	**727 208 423**	14.105	283	86	17.9
1	355		**727 208 424**	20.800	345	105	20.1
1	400		**727 208 425**	27.200	365	105	22.7
1	450		**727 208 426**	47.300	425	135	26.7
1	500		**727 208 427**	54.800	470	155	29.7

Socket fusion fittings





PROGEF Standard elbow 90° (PN10)

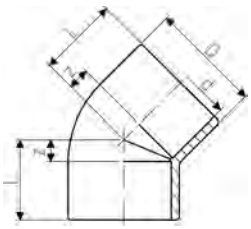
Model:

- Material: PP-H

* use pipe SDR 7.4

	d (mm)	Code	SP	Weight (kg)	L (mm)	D (mm)	z (mm)	closest inch (inch)
*	16	**727 100 105**	10	0.014	25	26	12	⅜
	20	**727 100 106**	10	0.020	28	31	14	½
	25	**727 100 107**	10	0.029	32	36	16	¾
	32	**727 100 108**	10	0.044	38	44	20	1
	40	**727 100 109**	10	0.071	44	54	24	1 ¼
	50	**727 100 110**	10	0.121	51	66	28	1 ½
	63	**727 100 111**	10	0.228	62	82	35	2
	75	**727 100 112**	5	0.301	76	93	45	2 ½
	90	**727 100 113**	5	0.477	88	110	53	3
	110	**727 100 114**	4	0.869	106	134	65	4





PROGEF Standard elbow 45° (PN10)

Model:

- Material: PP-H

* use pipe SDR 7.4

d (mm)	Code	SP	Weight (kg)	L (mm)	D (mm)	z (mm)	closest inch (inch)
16	**727 150 105**	10	0.009	20	23	7	⅜
20	**727 150 106**	10	0.016	21	31	7	½
25	**727 150 107**	10	0.024	24	36	8	¾
32	**727 150 108**	10	0.036	28	44	10	1
40	**727 150 109**	5	0.059	33	53	13	1 ¼
50	**727 150 110**	5	0.084	36	64	13	1 ½
63	**727 150 111**	10	0.183	43	82	16	2
75	**727 150 112**	5	0.219	51	93	20	2 ½
90	**727 150 113**	5	0.336	58	114	23	3
110	**727 150 114**	5	0.657	68	134	27	4





PROGEF Standard tee 90° equal (PN10)

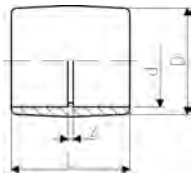
Model:

- Material: PP-H

* use pipe SDR 7.4

d (mm)	Code	Weight (kg)	L (mm)	D (mm)	z (mm)
16	**727 200 105**	0.020	25	26	12
20	**727 200 106**	0.027	28	31	14
25	**727 200 107**	0.039	32	36	16
32	**727 200 108**	0.057	38	44	20
40	**727 200 109**	0.095	44	54	24
50	**727 200 110**	0.161	51	66	28
63	**727 200 111**	0.286	62	82	35
75	**727 200 112**	0.390	76	93	45
90	**727 200 113**	0.727	88	114	53
110	**727 200 114**	1.062	106	134	65





PROGEF Standard socket equal (PN10)

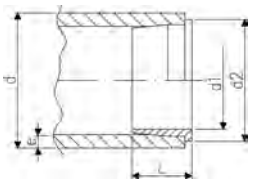
Model:

- Material: PP-H

* use pipe SDR 7.4

d (mm)	Code	SP	Weight (kg)	L (mm)	D (mm)	z (mm)
*16	**727 910 105**	10	0.010	33	26	7
20	**727 910 106**	10	0.013	35	31	7
25	**727 910 107**	10	0.019	39	36	7
32	**727 910 108**	10	0.026	43	44	7
40	**727 910 109**	10	0.041	48	54	8
50	**727 910 110**	10	0.072	54	66	8
63	**727 910 111**	5	0.118	62	82	8
75	**727 910 112**	10	0.147	70	93	8
90	**727 910 113**	10	0.238	81	112	11
110	**727 910 114**	5	0.425	96	134	14



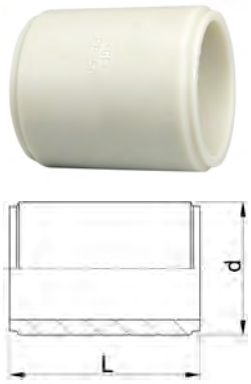


PROGEF Standard stiffener

Model:

- Material: PP-H
- Used as support during d20 and d25 socket fusion jointing to prevent the pipe from collapsing during the heating and jointing process.

d (mm)	Code	Weight (kg/m)	L (mm)	d1 (mm)	d2 (mm)	e (mm)
20	**727 900 006**	0.001	10	14	18	1.9
25	**727 900 007**	0.004	11	18	23	2.3



PROGEF Standard barrel nipple (PN10)

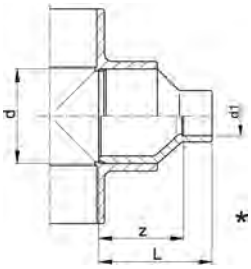
Model:

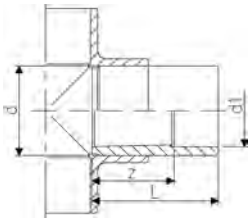
- Material: PP-H
- With fusion spigots on both sides
- For the shortest possible distance between fittings

* In these two sizes, stiffeners Code No. 727 900 006 (20 x 1.9) and 727 900 007 (25 x 2.3), or pipe SDR 7.4 must be used with socket fusion joints.

	d (mm)	Code	Weight (kg)	L (mm)
	16	**727 910 905**	0.005	36
*	20	**727 910 906**	0.005	37
*	25	**727 910 907**	0.006	41
	32	**727 910 908**	0.010	45
	40	**727 910 909**	0.017	50
	50	**727 910 910**	0.029	55
	63	**727 910 911**	0.058	64
	75	**727 910 912**	0.095	76
	90	**727 910 913**	0.163	90
	110	**727 910 914**	0.305	108







PROGEF Standard reducer (PN10)

Model:

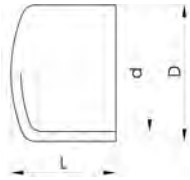
- Material: PP-H

Note:

* Fusion spigot and socket

d (mm)	d1 (mm)	Code	SP	Weight (kg)	L (mm)	z (mm)
20	16	**727 910 334**	10	0.013	35	22
25	16	**727 910 338**	10	0.010	38	25
25	20	**727 910 337**	10	0.012	37	23
32	20	**727 910 342**	10	0.016	43	29
32	25	**727 910 341**	10	0.019	43	27
40	20	**727 910 348**	10	0.022	48	34
40	25	**727 910 347**	10	0.025	48	32
40	32	**727 910 346**	10	0.030	48	30
50	20	**727 910 355**	10	0.034	54	40
50	25	**727 910 354**	10	0.034	54	38
50	32	**727 910 353**	10	0.039	54	36
50	40	**727 910 352**	10	0.048	54	34
63	25	**727 910 361**	5	0.054	64	46
63	32	**727 910 360**	10	0.062	64	46
63	40	**727 910 359**	5	0.069	64	44
63	50	**727 910 358**	5	0.083	64	41
75	63	**727 910 364**	10	0.098	62	35
90	63	**727 910 371**	10	0.170	88	61
90	75	**727 910 370**	10	0.142	70	39
110	90	**727 910 376**	5	0.235	81	46





PROGEF Standard end cap (PN10)

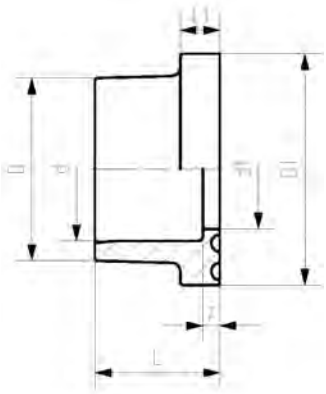
Model:

- Material: PP-H

* use pipe SDR 7.4

d (mm)	Code	SP	Weight (kg)	L (mm)	D (mm)
16	**727 960 105**	10	0.006	20	25
20	**727 960 106**	10	0.009	27	30
25	**727 960 107**	10	0.015	30	36
32	**727 960 108**	10	0.023	34	44
40	**727 960 109**	10	0.035	38	53
50	**727 960 110**	10	0.061	44	65
63	**727 960 111**	5	0.102	51	80
75	**727 960 112**	10	0.149	65	91
90	**727 960 113**	5	0.277	77	111
110	**727 960 114**	5	0.411	93	137





PROGEF Standard flange adaptor (PN10)
Jointing face flat/serrated

Model:

- Material: PP-H
- Connection: according to EN ISO 15494-1
- Counterpart: flange adaptor flat/serrated or with O-ring groove
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07
- Flanges: PP - steel, No. 27 70 02, PP-V, No. 27 70 04

d (mm)	DN (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	D (mm)	D1 (mm)	d1 (mm)	z (mm)
20	15	**727 790 206**	10	0.011	19	7	27	45	16	5
25	20	**727 790 207**	10	0.022	21	9	33	58	21	5
32	25	**727 790 208**	10	0.033	23	10	41	68	28	5
40	32	**727 790 209**	10	0.046	25	11	50	78	36	5
50	40	**727 790 210**	5	0.060	28	12	61	88	45	5
63	50	**727 790 211**	5	0.090	32	14	76	102	57	5
75	65	**727 790 212**	10	0.155	36	16	90	122	69	5
90	80	**727 790 213**	10	0.204	42	17	108	138	84	7
110	100	**727 790 214**	10	0.286	48	18	131	158	100	7





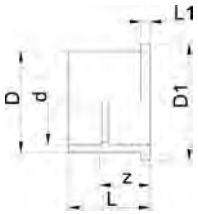
PROGEF Standard flange adaptor (PN10)
Jointing face with o-ring groove

Model:

- Material: PP-H
- Counterpart: flange adaptor flat/serrated, No. 27 79 02
- Flanges: PP - steel, No. 27 70 02 (mm) or No. 27 70 12 (ANSI), PP-V, No. 27 70 04
- Gasket: O-ring EPDM No. 48 41 01, FKM No. 49 41 01

d (mm)	DN (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
20	15	**727 810 106**	10	0.007	27	34	16	22	9	8
25	20	**727 810 107**	10	0.012	33	41	21	24	10	8
32	25	**727 810 108**	10	0.018	41	50	28	26	10	8
40	32	**727 810 109**	10	0.027	50	61	36	30	13	10
50	40	**727 810 110**	10	0.043	61	73	45	33	13	10
63	50	**727 810 111**	5	0.070	76	90	57	37	14	10
75	65	**727 810 112**	10	0.105	90	106	69	40	15	10
90	80	**727 810 113**	10	0.170	108	125	84	47	16	12
110	100	**727 810 114**	2	0.263	131	150	100	55	18	13





PROGEF Standard outlet flange adaptor (PN6)
Jointing face flat

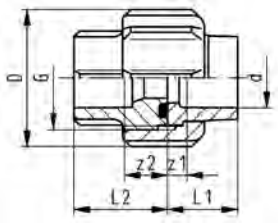
Model:

- Material: PP-H
- With fusion socket metric
- Suitable for wafer check valves Type 369
- To be installed on the outlet side of the valve
- Use flanges PP-V 27 70 04

d (mm)	DN (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	D (mm)	D1 (mm)	z (mm)
40	32	**727 800 009**	0	0.068	55	11	50	78	35
50	40	**727 800 010**	0	0.087	61	12	61	88	38
63	50	**727 800 011**	0	0.136	69	14	76	102	41
75	65	**727 800 012**	0	0.214	79	16	90	122	49
90	80	**727 800 013**	0	0.350	100	17	107	138	65
110	100	**727 800 014**	0	0.468	105	18	130	158	62

Unions for socket fusion





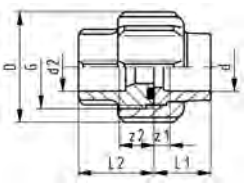
PROGEF Standard union metric (PN10)

Model:

- Material: PP-H
- Fusion socket metric
- d75-110 with new thread geometry, now rated PN10 up to d110
- Jointing face: With O-ring groove
- **For the dimensions d75-110 please see instructions for the installation**

d (mm)	EPDM Code	FKM Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	D (mm)	G (inch)	z (mm)	z1 (mm)	z2 (mm)
16	**727 510 155**	**727 520 155**	10	0.020	18	24	35	3/4	5	3	9
20	**727 510 156**	**727 520 156**	10	0.038	19	26	48	1	5	3	10
25	**727 510 157**	**727 520 157**	10	0.062	21	28	58	1 1/4	5	3	10
32	**727 510 158**	**727 520 158**	10	0.080	23	30	65	1 1/2	5	3	10
40	**727 510 159**	**727 520 159**	10	0.137	25	34	79	2	5	3	12
50	**727 510 160**	**727 520 160**	10	0.136	28	39	91	2 1/4	5	3	14
63	**727 510 161**	**727 520 161**	5	0.251	32	47	111	2 3/4	5	3	18
75	**727 510 172**	**727 520 172**	2	0.432	36	51	135	S107,5x3,6	5	3	18
90	**727 510 173**	**727 520 173**	2	0.625	42	55	158	S127,5x3,6	7	5	18
110	**727 510 174**	**727 520 174**	1	1.009	49	54	188	S152,5x3,6	7	5	10





PROGEF Standard adapter union metric BS Inch (PN10)

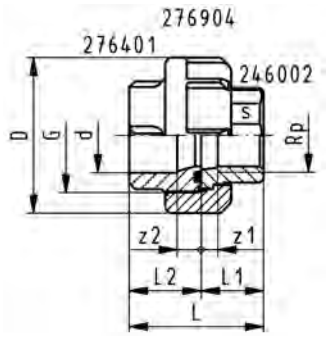
Model:

- Material: PP-H
- Fusion socket metric
- Jointing face: With O-ring groove

d (mm)	d2 (inch)	Code	Weight (kg)	L1 (mm)	L2 (mm)	D (mm)	z1 (mm)	z2 (mm)	G (R/Rp BS draad) (inch)
20	½	**727 513 006**	0.041	19	26	48	5	12	1
25	¾	**727 513 007**	0.061	21	28	58	5	12	1 1/4
32	1	**727 513 008**	0.079	23	30	65	5	12	1 1/2
40	1 ¼	**727 513 009**	0.108	25	34	79	5	14	2
50	1 ½	**727 513 010**	0.133	28	39	91	5	16	2 1/4
63	2	**727 513 011**	0.252	32	47	111	5	20	2 3/4

Adaptor unions





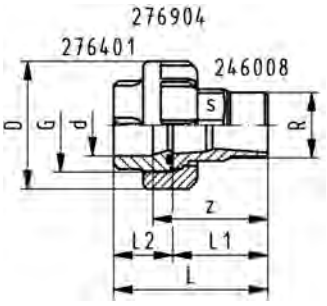
PROGEF Standard adaptor union PP-H/malleable iron galvanised Metric Rp (PN10)

Model:

- Union End: malleable iron with parallel female thread Rp
- Union bush: fusion socket PP-H metric
- Union Nut: PP-H
- Gasket: O-ring EPDM

d (mm)	Rp (inch)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	G (inch)	s (mm)	z1 (mm)	z2 (mm)
20	½	**727 530 306**	1	0.073	48	22	26	43	1	25	9	10
25	¾	**727 530 307**	1	0.118	50	22	28	51	1 1/4	31	7	10
32	1	**727 530 308**	5	0.199	56	26	30	58	1 1/2	38	9	10
40	1 ¼	**727 530 309**	1	0.276	65	31	34	72	2	48	12	12
50	1 ½	**727 530 310**	1	0.317	72	33	39	83	2 1/4	54	14	14
63	2	**727 530 311**	1	0.579	82	35	47	100	2 3/4	67	11	18





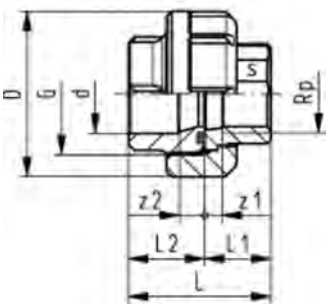
PROGEF Standard adaptor union PP-H/malleable iron galvanised Metric R (PN10)

Model:

- Gasket: O-ring EPDM
- Union End: Malleable iron with taper male thread R
- Union bush: fusion socket PP-H metric
- Union Nut: PP-H

d (mm)	R (inch)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	G (inch)	s (mm)	z (mm)
20	½	**727 530 806**	1	0.112	66	40	26	43	1	25	50
25	¾	**727 530 807**	1	0.171	71	43	28	51	1 1/4	31	53
32	1	**727 530 808**	5	0.236	78	48	30	58	1 1/2	38	58
40	1 ¼	**727 530 809**	1	0.379	91	57	34	72	2	48	69
50	1 ½	**727 530 810**	1	0.512	98	59	39	83	2 1/4	54	73
63	2	**727 530 811**	1	0.763	109	62	47	100	2 3/4	67	80





PROGEF Standard adaptor union PP-H/brass Metric Rp (PN10)

Model:

- Union Nut: PP-H
- Union bush: fusion socket PP-H metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM

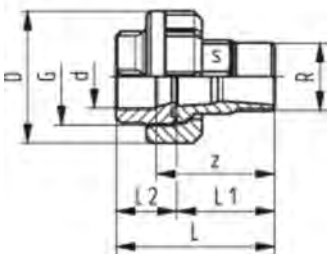
Rp (inch)	d (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	s (mm)	G (inch)	z1 (mm)	z2 (mm)
½	20	**727 550 506**	10	0.091	48	22	26	48	25	1	7	10
¾	25	**727 550 507**	5	0.152	53	25	28	58	30	1 1/4	9	10
1	32	**727 550 508**	5	0.194	57	27	30	65	36	1 1/2	8	10
1 ¼	40	**727 550 509**	1	0.317	65	31	34	79	46	2	10	12
1 ½	50	**727 550 510**	2	0.436	74	35	39	91	55	2 1/4	13	14
2	63	**727 550 511**	5	0.774	87	40	47	105	65	2 3/4	14	18



PROGEF Standard adaptor union PP-H/brass Metric R (PN10)

Model:

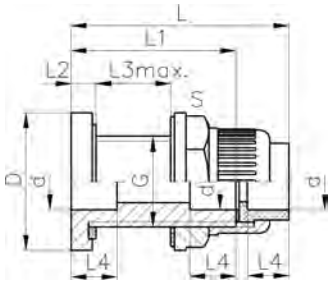
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM
- Union Nut: PP-H
- Union bush: fusion socket PP-H metric



d (mm)	R (inch)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	s (mm)	G (inch)	z (mm)
20	½	**727 550 906**	10	0.130	63	37	26	48	25	1	47
25	½	**727 550 957**	5	0.203	65	37	28	58	30	1 1/4	47
25	¾	**727 550 907**	5	0.203	70	42	28	58	30	1 1/4	52
25	1	**727 550 967**	5	0.318	99	46	30	58	30	1 1/4	81
32	½	**727 550 958**	5	0.298	67	37	30	65	36	1 1/2	47
32	¾	**727 550 968**	5	0.298	72	42	30	65	36	1 1/2	52
32	1	**727 550 908**	5	0.389	76	46	30	65	36	1 1/2	56
40	1 ¼	**727 550 909**	5	0.493	86	52	34	79	46	2	64
50	1 ½	**727 550 910**	2	0.650	95	56	39	91	55	2 1/4	70
63	2	**727 550 911**	8	1.123	114	67	47	105	65	2 3/4	85

Tank adaptors





PROGEF Standard tank adaptor

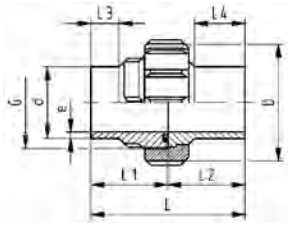
Model:

- End connection: union with fusion socket metric
- Gasket: flat gasket EPDM
- Material: PP-H

d (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)	L3 max (mm)	L4 (mm)	D (mm)	s (mm)	G (inch)	Diameter of bore in tank side (mm)
20	**167 050 226**	0	0.098	89	67	11	30	16	56	38	1	35
25	**167 050 227**	0	0.153	96	72	12	32	18	65	47	1 ¼	43
32	**167 050 228**	0	0.185	100	75	12	33	20	70	53	1 ½	49
40	**167 050 229**	0	0.292	106	78	12	32	22	95	75	2	61
50	**167 050 230**	0	0.308	112	82	13	32	25	95	75	2 ¼	67
63	**167 050 231**	0	0.493	122	87	13	33	29	115	101	2 ¾	83

Unions for butt fusion





PROGEF Standard union S5/SDR11 (PN10)

Model:

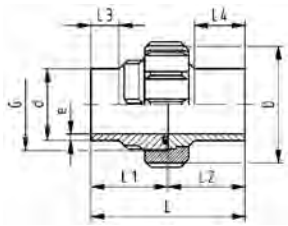
- Material: PP-H
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

With butt fusion ends
Gasket: O-ring EPDM
For the dimensions d75-110 please see instructions for the installation

d (mm)	FM	EPDM Code	SP	FKM Code	SP	Weight (kg)
20	IR	**727 518 506**	10	**727 528 506**	10	0.047
25	IR	**727 518 507**	10	**727 528 507**	10	0.072
32	IR	**727 518 508**	10	**727 528 508**	10	0.100
40	IR	**727 518 509**	5	**727 528 509**	5	0.145
50	IR	**727 518 510**	5	**727 528 510**	5	0.190
63	IR	**727 518 511**	1	**727 528 511**	10	0.332
75	IR	**727 518 512**	2	**727 528 512**	2	0.520
90	IR	**727 518 513**	2	**727 528 513**	2	0.539
110	IR	**727 518 514**	1	**727 528 514**	1	0.758

L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	D (mm)	G (inch)	e (mm)
107	54.0	53.0	13	26	48	1	1.9
113	57.0	56.0	12	26	58	1 1/4	2.3
119	60.0	59.0	14	26	65	1 1/2	2.9
126	63.0	63.0	16	26	79	2	3.7
131	65.5	65.5	19	26	91	2 1/4	4.6
137	69.0	68.0	20	26	111	2 3/4	5.8
131	66.0	65.5	22	24	135	S107,5x3,6	6.8
131	65.5	65.5	22	24	135	S107,5x3,6	8.2
131	65.5	65.5	22	25	158	S127,5x3,6	10.0





PROGEF Standard union S8.3/SDR17.6 (PN6)

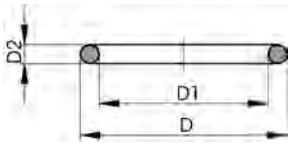
Model:

- Material: PP-H
- Jointing face: With O-ring groove
- **For the dimensions d75-110 please see instructions for the installation**
- With butt fusion ends
- IR = Infrared welding compatible
- Conventional butt-welding according to DVS 2207

d (mm)	FM	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	IR	**727 518 412**	2	0.479	**727 528 412**	2	0.476
90	IR	**727 518 413**	2	0.483	**727 528 413**	0	0.483
110	IR	**727 518 414**	12	0.663	**727 528 414**	0	0.664

d (mm)	L (mm)	L1 (mm)	L2 (mm)	D (mm)	G (inch)	e (mm)
75	132	66	66	135	S107,5x3,6	4.3
90	131	66	66	135	S107,5x3,6	5.1
110	131	66	66	158	S127,5x3,6	6.3





O-Ring gasket EPDM/FKM

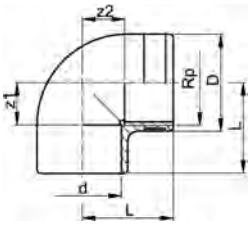
Model:

- For ecoFIT, PROGEF Std/Plus, SYGEF Std unions and adapter unions for butt fusion
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	D (mm)	D1 (mm)	D2 (mm)
20	15	**748 410 006**	0.002	**749 410 006**	27.28	20.22	3.53
25	20	**748 410 007**	0.002	**749 410 007**	35.23	28.17	3.53
32	25	**748 410 008**	0.003	**749 410 008**	39.99	32.93	3.53
40	32	**748 410 009**	0.003	**749 410 009**	51.33	40.65	5.34
50	40	**748 410 010**	0.004	**749 410 010**	57.68	46.99	5.34
63	50	**748 410 011**	0.005	**749 410 011**	70.37	56.69	5.34
75	65	**748 410 013**	0.006	**749 410 013**	79.90	69.22	5.34
90	80	**748 410 014**	0.007	**749 410 014**	92.60	81.92	5.34
110	100	**748 410 015**	0.008	**749 410 015**	111.68	101.00	5.34

Adaptor fittings for socket fusion





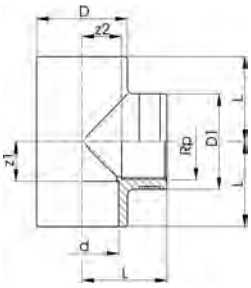
PROGEF Standard elbow 90° metric Rp (PN10)

Model:

- Material: PP-H
- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Rp (inch)	Code	SP	GP	Weight (lb)	L (mm)	D (mm)	z1 (mm)	z2 (mm)
20	½	**727 100 206**	10	120	0.049	28	30	14	14
25	¾	**727 100 207**	10	80	0.077	32	35	16	16
32	1	**727 100 208**	10	50	0.126	38	44	20	20
40	1 ¼	**727 100 209**	10	60	0.192	44	54	24	24





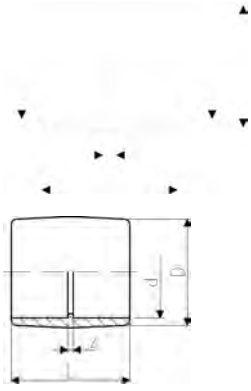
PROGEF Standard tee 90° metric Rp (PN10)

Model:

- Material: PP-H
- Line, with fusion socket metric
- Branch, with BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Rp (inch)	Code	SP	GP	Weight (kg)	L (mm)	D (mm)	D1 (mm)	z1 (mm)	z2 (mm)
20	½	**727 200 206**	10	90	0.030	28	31	30	14	14
25	¾	**727 200 207**	10	50	0.042	32	36	35	16	16
32	1	**727 200 208**	10	30	0.071	38	44	45	20	20
40	1 ¼	**727 200 209**	10	30	0.107	44	54	55	24	24





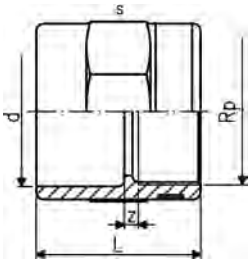
PROGEF Standard adaptor socket (PN10)
Metric Inch BS

Model:

- Material: PP-H
- With fusion socket metric and BS Inch (ASTM)

d (mm)	d1 (inch)	Code	SP	Weight (kg)	L (mm)	d2 (mm)	z (mm)
20	½	**727 913 006**	0	0.014	35	31	7
25	¾	**727 913 007**	0	0.019	39	36	7
32	1	**727 913 008**	0	0.025	43	44	7
40	1 ¼	**727 913 009**	0	0.040	48	54	8
50	1 ½	**727 913 010**	0	0.074	54	66	8
63	2	**727 913 011**	0	0.130	62	82	8
90	3	**727 913 013**	0	0.234	81	112	10
110	4	**727 913 014**	0	0.389	96	134	12





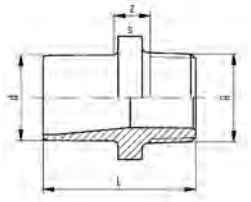
PROGEF Standard adaptor socket metric Rp (PN10)

Model:

- Material: PP-H
- With fusion socket metric and parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Rp (inch)	Code	SP	Weight (kg)	L (mm)	s (mm)	z (mm)
20	⅜	**727 910 205**	10	0.017	35	32	7
20	½	**727 910 206**	10	0.018	40	32	7
25	¾	**727 910 207**	10	0.025	42	36	7
32	1	**727 910 208**	10	0.040	48	46	7
40	1 ¼	**727 910 209**	10	0.064	53	55	7
50	1 ½	**727 910 210**	10	0.089	54	65	9
63	2	**727 910 211**	5	0.144	62	80	9





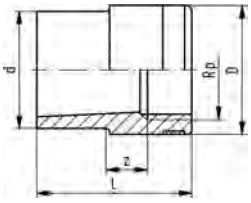
PROGEF Standard adaptor nipple metric R (PN10)

Model:

- Material: PP-H
- With fusion spigot metric and R tapered male thread
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	R (inch)	Code	SP	Weight (kg)	L (mm)	s (mm)	z (mm)
16	⅜	**727 910 505**	10	0.008	37	27	13
20	½	**727 910 506**	10	0.011	42	32	13
25	¾	**727 910 507**	10	0.015	46	36	13
32	1	**727 910 508**	10	0.027	52	46	12
40	1 ¼	**727 910 509**	10	0.040	56	55	14
50	1 ½	**727 910 510**	10	0.061	60	65	15
63	2	**727 910 511**	5	0.100	69	80	16





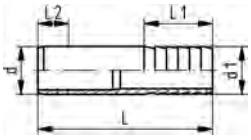
PROGEF Standard reducing bush metric Rp (PN10)

Model:

- Material: PP-H
- With fusion spigot metric and BSP parallel female thread, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Rp (inch)	Code	SP	Weight (kg)	L (mm)	z (mm)
20	¼	**727 910 433**	10	0.011	36	7
20	⅜	**727 910 434**	10	0.011	36	7
25	½	**727 910 437**	10	0.015	45	6
32	¾	**727 910 441**	10	0.022	47	8
40	1	**727 910 446**	10	0.039	53	9
50	1 ¼	**727 910 452**	10	0.061	55	10





PROGEF Standard hose connector metric (PN10)

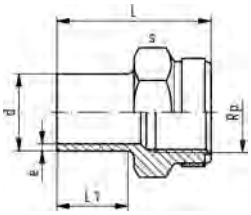
Model:

- Material: PP-H
- With socket fusion spigot metric and parallel hose connection

d (mm)	d1 (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	L2 (mm)
20	20	**727 960 406**	10	0.008	78	27	14
25	25	**727 960 407**	10	0.014	91	36	16
32	32	**727 960 408**	10	0.025	100	36	18
40	40	**727 960 409**	10	0.038	104	42	20
50	50	**727 960 610**	10	0.061	113	48	23
63	60	**727 960 611**	5	0.084	147	50	27

Adaptor fittings for butt fusion





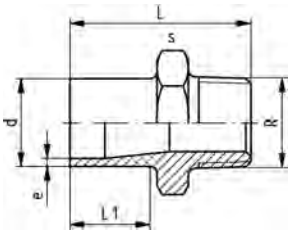
PROGEF Standard adaptor socket metric Rp (PN10)

Model:

- Material: PP-H
- With butt fusion spigot **SDR11** and BSP parallel female thread Rp, reinforced
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Rp (inch)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	½	IR	**727 910 266**	10	0.017	49	23	32	1.9
25	¾	IR	**727 910 267**	10	0.022	50	23	36	2.3
32	1	IR	**727 910 268**	10	0.038	54	23	46	2.9
40	1 ¼	IR	**727 910 269**	10	0.066	56	23	55	3.7
50	1 ½	IR	**727 910 270**	10	0.090	60	23	65	4.6
63	2	IR	**727 910 271**	5	0.123	62	23	80	5.8





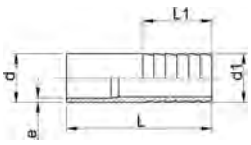
PROGEF Standard adaptor nipple metric R (PN10)

Model:

- Material: PP-H
- With butt fusion spigot and BSP tapered male thread
- Do not use thread sealing pastes that are harmful to PP
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	R (inch)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	s (mm)	e (mm)
20	½	IR	**727 910 556**	10	0.013	51	23	32	1.9
25	¾	IR	**727 910 557**	10	0.014	52	23	36	2.3
32	1	IR	**727 910 558**	10	0.027	55	23	46	2.9
40	1 ¼	IR	**727 910 559**	10	0.041	58	23	55	3.7
50	1 ½	IR	**727 910 560**	10	0.062	60	23	65	4.6
63	2	IR	**727 910 561**	5	0.096	67	26	80	5.8



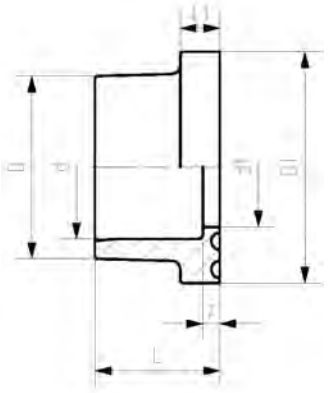


Hose Connector Standard PP (PN10)

d (mm)	d1 (mm)	FM	Code	SP	Weight (kg)	L (mm)	L1 (mm)	e (mm)
20	20	IR	**727 968 606**	10	0.007	64	27	1.9
25	25	IR	**727 968 607**	10	0.014	75	36	2.3
32	32	IR	**727 968 608**	10	0.022	82	36	2.9
40	40	IR	**727 968 609**	10	0.032	84	42	3.7
50	50	IR	**727 968 810**	10	0.053	90	48	4.6
63	60	IR	**727 968 811**	5	0.088	119	50	5.8

Socket fusion flange adaptor





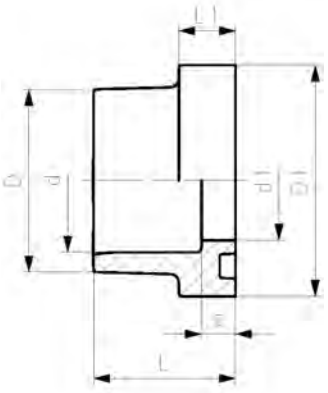
PROGEF Standard flange adaptor (PN10)
Jointing face flat/serrated

Model:

- Material: PP-H
- Connection: according to EN ISO 15494-1
- Counterpart: flange adaptor flat/serrated or with O-ring groove
- Gasket: profile flange gasket EPDM No. 48 44 07, FKM No. 49 44 07
- Flanges: PP - steel, No. 27 70 02, PP-V, No. 27 70 04

d (mm)	DN (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	D (mm)	D1 (mm)	d1 (mm)	z (mm)
20	15	**727 790 206**	10	0.011	19	7	27	45	16	5
25	20	**727 790 207**	10	0.022	21	9	33	58	21	5
32	25	**727 790 208**	10	0.033	23	10	41	68	28	5
40	32	**727 790 209**	10	0.046	25	11	50	78	36	5
50	40	**727 790 210**	5	0.060	28	12	61	88	45	5
63	50	**727 790 211**	5	0.090	32	14	76	102	57	5
75	65	**727 790 212**	10	0.155	36	16	90	122	69	5
90	80	**727 790 213**	10	0.204	42	17	108	138	84	7
110	100	**727 790 214**	10	0.286	48	18	131	158	100	7





PROGEF Standard flange adaptor (PN10)
Jointing face with o-ring groove

Model:

- Material: PP-H
- Counterpart: flange adaptor flat/serrated, No. 27 79 02
- Flanges: PP - steel, No. 27 70 02 (mm) or No. 27 70 12 (ANSI), PP-V, No. 27 70 04
- Gasket: O-ring EPDM No. 48 41 01, FKM No. 49 41 01

d (mm)	DN (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
20	15	**727 810 106**	10	0.007	27	34	16	22	9	8
25	20	**727 810 107**	10	0.012	33	41	21	24	10	8
32	25	**727 810 108**	10	0.018	41	50	28	26	10	8
40	32	**727 810 109**	10	0.027	50	61	36	30	13	10
50	40	**727 810 110**	10	0.043	61	73	45	33	13	10
63	50	**727 810 111**	5	0.070	76	90	57	37	14	10
75	65	**727 810 112**	10	0.105	90	106	69	40	15	10
90	80	**727 810 113**	10	0.170	108	125	84	47	16	12
110	100	**727 810 114**	2	0.263	131	150	100	55	18	13

Machines & Tools



Table of contents		Page
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	Accessories for job sites	474
	Butt fusion machines	476
	Tools for installation of plastic pipes	489
	Manual fusion tools	490
	Socket fusion machines	491

Utility Range

MSA Machines

Working Range

Size	20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000	1200	1400	1600	1800	2000
 MSA 4.0																																	
 MSA 2.1																																	
 MSA 2.0																																	
 MSA 330 / 340																																	
 MSA 230																																	



MSA 4.0
Electrofusion Unit with full traceability and GPS functions

High performance, light electro-fusion unit based on inverter technology, providing a complete documentation of the welding including operator badge, job codes, full traceability data (ISO 12176) and GPS coordinates added automatically to each fusion record.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive, the configurable workflow to fit all needs, from the simplest to the most plenty of details.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
For operator identity card, job identification and fusion data input a 1D (or 2D in case of Unitary QR code availability) barcode scanner is connected.
The internal Bluetooth Low Energy device offers the possibility to monitor the fusion from remote and collect the data recorded via wireless with consumer smartphones, to send them to the headquarter even in real time.
The internal memory has a capacity of 5000 jointing records, which can be retrieved using a USB memory stick. The fusion protocols are delivered as PDF, CSV files (both manageable with standard and free PC software applications). For a more sophisticated usage, a BIN file is also available, compatible with the MSA Welding Book to sort, filter out and combine protocols and photos captured from multiple MSA units.
Robust aluminum die casting enclosures and comfortable plastic handle ensure a weight balanced carrying.
Rental time period programmable by the machine owner, unit blocks on expiring date, reset by a dynamic code can be activated.
Scope of delivery: transport case, angle adapters (4,0 mm and 4,7 mm), operation instructions, START/STOP badge, configuration chart and USB memory stick with PC applications.

Technical Data:

- Mains frequency: 50-60 Hz
- Fusion data input mode: bar code, manual
- Mains voltage: 230V (190V - 265V)
- Suggested power generators: 3.5 kVA
- Welding technique: Voltage controlled
- Fusion voltage: 8-48 V
- Fusion current: 110 A (max)
- USB Port: Type A
- Operating temperature: -20°C to +50°C
- Internal memory capacity: 5000 protocols
- Protocols format: PDF, CSV and BIN (compatible with MSA Welding Book)
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 4 m
- Dimensions: 280 x 480 x 220 mm
- Weight: ca. 12.8 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: 27
- Bluetooth radio interface

Type	Description	Code	Weight (kg)
MSA 4.0	1D barcode scanner	**790 156 011**	19.500
MSA 4.0	2D barcode scanner (QR code reading)	**790 156 012**	19.500



MSA 4.1
Electrofusion Unit with full traceability, GPS functions and wireless scanner

High performance, light electro-fusion unit based on inverter technology, providing a complete documentation of the welding including operator badge, job codes, full traceability data (ISO 12176) and GPS coordinates added automatically to each fusion record.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive, the configurable workflow to fit all needs, from the simplest to the most plenty of details.
Operator identity, job identification and fitting data are captured using a wireless scanner, with 1D (for barcode labels on teh fitting) and 2D (in case of Unitary QR code availability). The wireless scanner is based on a rugged mobile phone with a software application installed for reading the barcode and giving evidence of the barcode type (operator, fusion data, traceability...). The wireless device can be used also for communication purposes as well as for accessing to GFPS online web services
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The internal memory has a capacity of 5000 jointing records, which can be retrieved using a USB memory stick. The fusion protocols are delivered as PDF, CSV files (both manageable with standard and free PC software applications). For a more sophisticated usage, a BIN file is also available, compatible with the MSA Welding Book to sort, filter out and combine protocols and photos captured from multiple MSA units.
Robust aluminum die casting enclosures and comfortable plastic handle ensure a weight balanced carrying.
Rental time period programmable by the machine owner, unit blocks on expiring date, reset by a dynamic code can be activated.
Scope of delivery: transport case, wireless scanner as rugged mobile phone with battery charger, angle adapters (4,0 mm and 4,7 mm), operation instructions, START/STOP badge, configuration chart and USB memory stick with PC applications.

Technical Data:

- Mains frequency: 50-60 Hz
- Fusion data input mode: bar code, manual
- Mains voltage: 230V (190V - 265V)
- Suggested power generators: 3.5 kVA
- Welding technique: Voltage controlled
- Fusion voltage: 8-48 V
- Fusion current: 110 A (max)
- USB Port: Type A
- Operating temperature: -20°C to +50°C
- Internal memory capacity: 5000 protocols
- Protocols format: PDF, CSV and BIN (compatible with MSA Welding Book)
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 4 m
- Dimensions: 280 x 480 x 220 mm
- Weight: ca. 12.8 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: 27

Type	Description	Code	Weight (kg)
MSA 4.1	2D wireless scanner (QR code reading)	**790 156 013**	19.500

MSA 2.0 Automatic Electrofusion Unit



The MSA 2.0 automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion.
The MSA 2.0 has 350 protocols permanently stored in the internal memory.
It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
Scope of delivery includes: transport box, 4.0 mm angle adapters, START/STOP badge and operating instructions.

Technical Data:

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- Fusion voltage: 8-42 V (48 V)
- Fusion data input mode: bar code, manual
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 3 m
- Dimensions: 280 x 480 x 220 mm
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Independent from languages

Type	Code	Weight (kg)
Barcode scanner, transport case	**790 156 001**	20.000
Barcode scanner, transport case, Swiss plug	**790 156 004**	20.000

MSA 2.1 Automatic Electrofusion Unit with protocols retrieval



The MSA 2.1 automatic electro fusion unit combines light weight and high efficiency, thanks to its inverter technology and furthermore provides fusion documentation in PDF. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion.
It is robust, safe and ergonomic.
All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.
The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.
The unit has 1000 protocols permanently stored in the internal memory. The user can copy the fusion reports in an USB stick to print them out in PDF format.
Scope of delivery includes: transport box, angle adapters (4.0 mm and 4.7 mm), operating instructions, START/STOP badge and USB memory stick with PC applications.

Technical Data:

- Operating temperature: -20°C to +50°C
- Mains voltage and frequency: 230V (190V - 265V), 50-60Hz
- Fusion voltage: 8-42 V (48 V)
- Fusion data input mode: bar code, manual
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m / Fusion cable: 4 m
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Independent from languages

Type	Code	Weight (kg)
Barcode scanner, transport case, mini Welding Book	**790 156 003**	20.000
Barcode scanner, transport case, mini Welding Book, Swiss plug	**790 156 006**	20.000
Barcode scanner, transport case, mini Welding Book, 8m fusion cable	**790 156 010**	21.000



MSA 330 @ 110 Volt Electrofusion unit with jointing data recording

The MSA 330 electrofusion unit combines high performance in jointing with easy and safe handling. The internal memory has a capacity of 1000 jointing records, for data transfer the unit is equipped with an USB interface. The record formats are in PDF and CSV, both manageable with common and free PC software applications. An intuitive operation menu is guiding through the complete jointing process. For fusion data input a barcode scanner is connected (manual data input configurable). The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and indication of cooling time. The unit is suitable for jointing in series. Robust aluminum housing with convenient cable rewind and handle for weight balanced transport. Fusion cable detachable with military connector.
Scope of delivery: transport case, angle adapters (4.0 mm and 4.7 mm), operation instructions and configuration chart.

Technical Data:

- Ambient temperature: -10°C to +45°C
- Mains voltage: 90V - 135V AC
- Mains frequency: 40 Hz - 70 Hz
- Fusion voltage: 8 - 48V AC
- Fusion current: 90 A (max)
- Suggested power generator: 3.5 kVA (5.0 kVA for fittings with d>200mm)
- Protection factor: Class 1 / IP 54
- Mains cable: 10 m
- Fusion cable: 3 m
- Interface: USB (type A) for PC communication and software updates
- Dimensions (WxHxD): 280 x 480 x 320mm
- Weight incl. cables: 25 kg
- Display: LCD (20 alphanumerical char. x 4 lines), contrast adjustment
- Configurable languages: 11

description	Code	Weight (kg)
Barcode scanner, transport case	**790 160 017**	32.000

MSA Accessories



Adapters for MSA electro-fusion units

- Adapters for Electrofusion units with 4 mm connectors.

Type	Code	Weight (kg)	Description
4,0 mm	**799 350 340**	0.058	Angle adapter, black
4,7 mm	**799 350 341**	0.057	Angle adapter, grey
4,7 mm	**799 350 462**	0.014	Adapter, white



WeldinOne

MSA Applications Suite
Software applications to assist Utility professionals during welding and asset maintenance
MSA Welding book
The application extends the jointing information beyond the protocols automatically captured by the MSA units adding the:

- Automatic generation of maps for the welding place
- Generation of protocols including photos of scraping activities and proper alignment
- PDF creation of books on project basis

Type	Code	Weight (kg)
MSA Welding Book	**790 160 201**	0.100



MSA Rent Guardian

- Software application to unlock the MSA 4 and MSA 330/340 EF units when rental time is expired
- Generation of enabling code

Type	Code	Weight (kg)
MSA Rent Guardian	**790 160 154**	0.160



Geothermal cables kit

- Ability to joint in parallel 2 couplers of a Y fitting
- Welding voltage: 0 – 48 Volt
- Welding current: 40 A (max.)
- Content of delivery: 2 cables, pouch, protection caps, operation manual
- Recommended in combination with ELGEF fittings
- Compatible with all MSA Units
- Connector: 4 mm (90°)
- Cable length: 290 mm

Description	Code	Weight (kg)
MSA geothermal cables	**790 160 176**	0.385



Data Transfer Cable MSA 230

- RS 232 data transfer from MSA 230 to PC

Type	Code	Weight (kg)
MSA 230	**790 128 112**	0.125



Transport Box MSA electro-fusion units

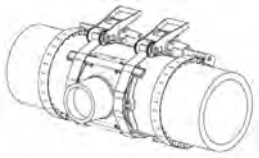
- Large, robust transport box for MSA machines

Type	Dimension (mm)	Code	Weight (kg)
MSA 230	320x310x510	**790 128 121**	6.300
MSA 330 / MSA 340	370x350x520	**790 160 010**	8.000

Utility Range

Peeling Tools

Working Range

Size	20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000	1200	1400	1600	1800	2000
 Topload																		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
 RST 1000																■	■	■	■	■	■	■	■	■	■	■	■	■					
 RS				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■															
 RTC 710								■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■								
 PT 2							■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■											
 PT 1	■	■	■	■	■	■	■	■																									
 PT 4	■	■	■	■	■	■																											



Rotary Peeler RS

Note:
This innovative Rotary Peeler RS is designed to use for universal peeling at the pipe end, for electrofusion couplings, tees and elbows and as well as for electrofusion saddles.Suitable for peeling of pipes made out of PE 80, PE 100, PEX, PP.

d (mm)	Article	Code	SP	Weight (kg)
40	RS 40	**790 136 001**	1	1.310
50	RS 50	**790 136 002**	1	1.310
63	RS 63	**790 136 003**	1	1.310
75	RS 75	**790 136 004**	1	1.540
90	RS 90	**790 136 005**	1	1.540
110	RS 110	**790 136 006**	1	1.540
125	RS 125	**790 136 007**	1	1.730
140	RS 140	**790 136 008**	1	1.730
160	RS 160	**790 136 009**	1	1.730
180	RS 180	**790 136 010**	1	2.030
200	RS 200	**790 136 011**	1	2.030
225	RS 225	**790 136 012**	1	2.030
250	RS 250	**790 136 013**	1	2.440
280	RS 280	**790 136 014**	1	2.440
315	RS 315	**790 136 015**	1	2.440



Transport cases for Rotary Peeler RS

- Included in the scope of delivery of the Rotary Peeler RS

Article	Code	Weight (kg)	Dimension (mm)	Description
RSTC 40-63	**790 136 221**	0.718	343 - 277 - 125	for RS 40-RS 63
RSTC 75-110	**790 136 222**	0.870	343 - 277 - 125	for RS 75-RS 110
RSTC 125-160	**790 136 223**	0.870	490 - 400 - 153	for RS 125-RS 160
RSTC 180-225	**790 136 213**	1.796	450 - 360 - 132	for RS 180-RS 225
RSTC 250-315	**790 136 214**	2.901	566 - 435 - 156	for RS 250-RS 315



Replacement blade to Rotary Peeler RS

d-d (mm)	Description	Code	SP	Weight (kg)
40 - 315	Hard metal	**790 136 100**	1	0.013

Tools for preparing pipe surfaces



Peeling tool PT 1 E

- The rotating Peeling Tool PT 1 E is suitable for preparing pipe ends with diameters d 20 - 90 mm (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX.
- Scope of delivery: 1 basic tool in a plastic carrying case, without pipe inserts. The case has sufficient space for approximately 6 pipe inserts.

d-d (mm)	Code	Weight (kg)	Description
20 - 90	**799 150 382**	3.300	Basic Tool PT 1 E

Pipe inserts for peeling tool PT 1 E





d (mm)	e (mm)	Code	Weight (kg)	Description
20	1.9	**799 300 739**	0.220	Pipe Insert SDR 11
20	3.0	**799 300 741**	0.262	Pipe Insert SDR 7
25	2.3	**799 300 740**	0.280	Pipe Insert SDR 11
25	3.0	**799 300 742**	0.290	Pipe Insert SDR 9
32	3.0	**799 300 743**	0.312	Pipe Insert SDR 11
40	3.7	**799 300 744**	0.341	Pipe Insert SDR 11
40	1.8	**799 300 760**	0.220	Pipe Insert SDR 26
50	4.6	**799 300 745**	0.472	Pipe Insert SDR 11
50	2.0	**799 300 761**	0.220	Pipe Insert SDR 26
56	2.2	**799 300 762**	0.588	Pipe Insert SDR 26
63	3.8	**799 300 725**	0.663	Pipe Insert SDR 17
63	5.8	**799 300 746**	0.602	Pipe Insert SDR 11
63	2.5	**799 300 763**	0.220	Pipe Insert SDR 26
75	4.5	**799 300 727**	0.690	Pipe Insert SDR 17
75	6.9	**799 300 747**	0.644	Pipe Insert SDR 11
75	2.9	**799 300 764**	0.220	Pipe Insert SDR 26
90	5.4	**799 300 748**	0.892	Pipe Insert SDR 17
90	8.2	**799 300 749**	0.796	Pipe Insert SDR 11

Replacement blade for peeling tool PT 1 E



d-d (mm)	Code	Weight (kg)	Description
20 - 90	**799 150 383**	0.050	Replacement blade, 1 piece



Peeling tool PT 2

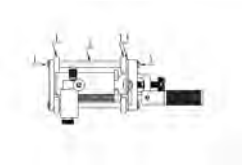
- Scope of delivery: 1 tool (size 1, 2 or 3) in a metal carrying case.
- The rotating Peeling Tools PT 2 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX pipes.

d-d (mm)	Code	Weight (kg)	Description
63 - 250	**799 300 752**	7.500	Size 1, peeling length 140 mm
110 - 400	**799 300 755**	9.900	Size 2, peeling length 150 mm
110 - 500	**799 300 756**	10.500	Size 3, peeling length 175 mm



Replacement blade for peeling tool PT 2

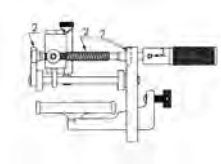
d-d (mm)	Code	Weight (kg)	Description
63 - 500	**799 150 355**	0.008	Replacement blade, 1 piece



Spindles repair kit for peeling tool PT 2

- Consisting of 1 main spindle, 1 fixing bolt, 1 end plate, 2 rollers and 1 spacing disk

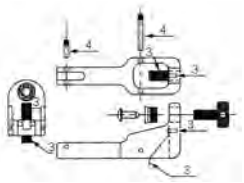
d-d (mm)	Code	SP	Weight (kg)
90 - 250	**799 150 360**	0	1.000
110 - 400	**799 150 361**	0	0.420
110 - 500	**799 150 362**	0	1.000



Feed repair kit feed for peeling tool PT 2

- Consisting of 1 carriage bolt, 1 guide unit and 1 guide end plate

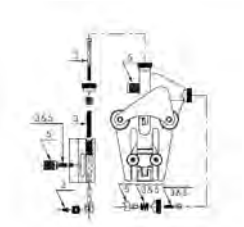
d-d (mm)	Code	SP	Weight (kg)
90 - 250	**799 150 363**	0	0.500
110 - 400	**799 150 364**	0	0.346
110 - 500	**799 150 365**	0	0.500



Screws and springs repair kit for peeling tool PT 2

- Cosisting of 1 assembly screw long, 1 clamping screw, 1 handle, 1 srew for flat spring, 1 screw for cutting plate, 1 nut for feed, 1 flat spring, 1 spring for rapid adjustment and 1 clamping spring

d-d (mm)	Code	SP	Weight (kg)
90 - 500	**799 150 369**	1	0.300



Tool holder repair kit for peeling tool PT 2

- 1 feed nut,
- 1 washer
- 1 fixing screw
- 1 nut for feed,
- 1 spring for rapid adjustment,

d-d (mm)	Code	Weight (kg)
90 - 500	**799 150 370**	0.300

Peeling tool PT 4



- The easy-to-use peeling tools PT 4 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tools ensure a constant peeling quality on the whole peeled area and are suitable for PE80 and PE100 pipes.
- Scope of delivery: 1 tool with exchangeable blade (4 cutting surfaces).

e (mm)	d (mm)	Code	Weight (kg)	Description
1.9	20	**799 300 704**	0.300	Pipe Insert SDR 11
3.0	20	**799 300 705**	0.300	Pipe Insert SDR 7
2.3	25	**799 300 706**	0.320	Pipe Insert SDR 11
3.0	25	**799 300 707**	0.320	Pipe Insert SDR 9
3.0	32	**799 300 708**	0.340	Pipe Insert SDR 11
3.7	40	**799 300 709**	0.440	Pipe Insert SDR 11
4.6	50	**799 300 710**	0.500	Pipe Insert SDR 11
5.8	63	**799 300 711**	0.540	Pipe Insert SDR 11

Replacement blade for peeling tool PT 4



d-d (mm)	Piece	Code	Description
20 - 63	1	**799 150 275**	Replacement blade with 4 cutting surfaces

Peeling tool RTC



- **Rotary peeler for reliable pipe preparation prior to electrofusion**
- Applicable on pipe ends and spigot ends of fittings
- **Scope of delivery 315**: 1 Scraper arm, 1 Self-centering chuck base, 1 Aluminium transport case
- **Scope of delivery 710**: 1 Scraper arm, 1 Self-centering chuck base, 2 Aluminium transport case

d-d (mm)	Code	Weight (kg)	Description
355 - 710	**799 300 757**	31.400	max. working-range 530 mm

Replacement blade for peeling tool RTC



d-d (mm)	Piece	Code	Weight (kg)	Description
355 - 710	1	**799 300 586**	0.020	Replacement blade, 1 piece

Rotary peeling tool RST 1000



- The flexible peeling tool RST 1000 is suitable for preparing welding zones of saddle and coupler jointings for Electrofusion fittings
- To ensure the constant removal of the oxidation layer for PE80 and PE100, a long lasting peeling blade made of carbide is used
- Easy-to-hinge chain links enable the staged operation of pipes d250 to d1000 mm
- Compensation for ovality and variable pipe diameters with loaded spring component in the chain
- Scope of delivery includes: various chain links, spare blade, transport box

d-d (mm)	Code	Weight (kg)
250 - 1000	**799 300 799**	10.552



Transportbox RST 1000 with inlays

- Included in the scope of delivery of the Rotary Peeler RST 1000

d-d (mm)	Code	Weight (kg)
250 - 1000	**799 300 806**	0.250



Replacement blade for rotary peeling tool RST 1000

d-d (mm)	Code	SP	Weight (kg)	Description
250 - 1000	**799 300 802**	1	0.020	Replacement blade in carbide



Hand scraper

- The Hand Scraper can be used to prepare the fusion zone on PE80 pipes.

Code	Weight (kg)	Description
799 198 094	0.143	Hand scraper with long handle

Accessories for job sites



Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the materialof PP, PE, PVDF and PB
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

Size	Code	Weight (kg)
1 liter	**799 298 023**	0.872



Tangit KS-Cleaning Tissues

- Special cleaner for plastic fusion connections in the materialof PP, PE, PVDF and PB
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- for plastic welding joints PB, PE, PP, PVDF
- DW 5290 BR 0464
- DVGW approved

Contents	Code	Weight (kg)
1 dispenser with 100 tissues	**799 298 024**	0.333



Marker

Type	Code	Weight (kg)
silver	**799 350 364**	0.010



Roller support 315

- For pipes up to d 315 mm, with base plate, galvanised
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 300 kg

d-d (mm)	Code	Weight (kg)
20 - 315	**790 109 110**	4.500



Roller support 630

- Up to d 630 mm, with base plate, galvanised
- **adjustable height** (60 mm)
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 1000 kg

d-d (mm)	Code	Weight (kg)
110 - 630	**790 109 109**	4.725

Utility Range

Butt Fusion Machines

Working Range

Size	20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315	355	400	450	500	560	630	710	800	900	1000	1200	1400	1600
TM 160 			■	■	■	■	■	■	■	■	■																				
TM 250 							■	■	■	■	■	■	■	■	■																
TM 315 								■	■	■	■	■	■	■	■	■	■	■													
GF 400 										■	■	■	■	■	■	■	■	■	■	■											
KL 500 GF 500 														■	■	■	■	■	■	■	■	■									
KL 630 GF 630 																		■	■	■	■	■	■	■							
GF800 																						■	■	■	■	■					
GF1000 																								■	■	■	■	■			
GF1200 																									■	■	■	■	■		
GF1600 																												■	■	■	■

TM160 - 315 Butt fusion machines













TOP 2.0 160 - 250 - 315
Butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with manual control unit.
TOP hydraulic unit with integrated control panel and power outlets.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Weight: Type 160 = 22 kg, Type 250 = 47 kg, Type 315 = 53 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Intuitive control panel provided with digital indication of hydraulic pressure, electronic heating element temperature controller, 2-channel welding timer
- Automatic pressure control during the cooling time
- Built-in data logger and realtime communication with mobile smartphones (at least iOS 11 or Android 7) during the welding process and fusion data download, working in combination with TOP WeldinAir mobile application
- Precise pressure setting and fine adjusting
- Push-button operation of machine carriage
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 31 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Ergonomic, weight-balanced handling
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: Type 160 = 7 kg, Type 250 = 14 kg, Type 315 = 17 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: Type 160 = 5.5 kg; Type 250 = 8 kg; Type 315 = 10 kg
- Input power: Type 160 = 1200 W, Type 250 = 2000 W, Type 315 = 2500 W
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 160 = 4.8 kg, Type 250 = 8 kg, Type 315 = 9 kg

Type	d-d (mm)	Performance	Code	Weight (kg)
TOP 2.0 160	40 - 160	230 V/1900 W	**790 150 011**	126.000
TOP 2.0 250	75 - 250	230 V/3270 W	**790 151 011**	191.000
TOP 2.0 315	90 - 315	230 V/3870 W	**790 152 026**	206.000













CNC 4.0 160 - 250 - 315
Automatic butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with automatic CNC control unit.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete working process
- Weight: Type 160 = 22 kg, Type 250 = 47 kg, Type 315 = 53 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Integrated GPS receiver
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be input by means of the barcode scanner (to be ordered separately)
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- Real time communication with mobile smartphones (at least iOS 11 or Android 7) during the welding process and the data management (WeldinAir type), working in combination with Weld-inAir mobile application
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 33 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Ergonomic, weight-balanced handling
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: Type 160 = 7 kg, Type 250 = 14 kg, Type 315 = 17 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: Type 160 = 5.5 kg, Type 250 = 8 kg, Type 315 = 10 kg
- Input power: Type 160 = 1200 W, Type 250 = 2000 W, Type 315 = 2500 W
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 160 = 4.8 kg, Type 250 = 8 kg, Type 315 = 9 kg

Type	d-d (mm)	Performance	Code	Weight (kg)
CNC 4.0 160	40 - 160	230 V/2000 W	**790 150 012**	125.000
CNC 4.0 250	75 - 250	230 V/3150 W	**790 151 012**	195.000
CNC 4.0 315	90 - 315	230 V/3750 W	**790 152 012**	215.000



Barcode Scanner for CNC machines

- Barcode scanner to input additional information as operator ID, job number and traceability codes of pipes and fittings
- Provided with holder to be placed onto the hydraulic unit and pouch for safe transportation

Type	Code	Weight (kg)
Barcode scanner	**790 151 052**	0.370











CNC 4.0 250 - 315 AHE
Automatic butt fusion machine for construction site with heating element ejection system

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with automatic CNC control unit.
Automatic ejection system for the heating element.
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- The heating element is removed automatically during the change-over phase
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete working process
- Weight: Type 250 = 54 kg, Type 315 = 60 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Integrated GPS receiver
- Selection of language
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be input by means of the barcode scanner (to be ordered separately)
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- Real time communication with mobile smartphones (at least iOS 11 or Android 7) during the welding process and the data management (WeldinAir type), working in combination with Weld-inAir mobile application
- Integrated power outlets for planer, heating element
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 33 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Ergonomic, weight-balanced handling
- Self-locking mechanism in working position
- Safety microswitch to prevent undesired start-up
- Weight: Type 250 = 14 kg, Type 315 = 17 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: Type 250 = 15 kg, Type 315 = 19 kg
- Input power: Type 250 = 2000 W, Type 315 = 2500 W
- **CASE**
- For safe storage of planer and heating element
- Weight: Type 250 = 9 kg, Type 315 = 10 kg

Type	d-d (mm)	Performance	Code	Weight (kg)
CNC 4.0 250 AHE	75 - 250	230 V/3150 W	**790 151 071**	208.000
CNC 4.0 315 AHE	90 - 315	230 V/3750 W	**790 152 071**	223.000

TM 160 - 250 - 315 Accessories



TM 160 Reduction clamping inserts, wide

- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- d 40 - 140 mm
- We recommend 4 wide and 4 narrow half shells.

Code	Weight (kg)
790 114 023	0.280
790 114 009	0.326
790 114 010	0.293
790 114 011	0.290
790 114 012	0.277
790 114 013	0.260
790 114 014	0.265
790 114 015	0.178



Reduction clamping inserts, wide

- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- d 75 - 225 mm
- We recommend 4 wide and 4 narrow half shells.

d (mm)	Code	SP	Weight (kg)
75	**790 115 028**	0	0.902
90	**790 115 008**	0	0.940
110	**790 115 009**	0	0.841
125	**790 115 010**	0	0.829
140	**790 115 011**	0	0.647
160	**790 115 012**	0	0.727
180	**790 115 013**	0	0.676
200	**790 115 014**	0	0.733
225	**790 115 015**	0	0.477



GF 315 Reduction clamping inserts

- d 90 - 280 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

narrow Code	Weight (kg)	wide Code	Weight (kg)
790 112 098	1.265	**790 112 088**	1.000
790 112 099	1.220	**790 112 089**	0.945
790 112 100	1.215	**790 112 090**	0.957
790 112 101	1.139	**790 112 091**	0.950
790 112 102	1.080	**790 112 092**	0.980
790 112 103	1.006	**790 112 093**	0.931
790 112 104	0.945	**790 112 094**	0.880
790 112 105	0.833	**790 112 095**	0.940
790 112 106	0.712	**790 112 096**	0.754
790 112 107	0.562	**790 112 097**	0.750



Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension
- Reductions in inch sizes or special diameters upon request

d-d (mm)	Code	Weight (kg)
40 - 140	**790 114 156**	17.000
75 - 225	**790 115 156**	63.000
90 - 280	**790 112 156**	78.000



Flange adapter clamping units

- For correct clamping and fusion jointing of short-ended stub ends

d-d (mm)	Code	Weight (kg)
40 - 160	**790 319 007**	5.800
75 - 250	**790 115 044**	5.594
90 - 315	**790 112 073**	11.000



Chamfered upper clamp

- Necessary for welding short-leg bends having diameters equal of the machine dimension: e.g. bend Ø250 mm with a TM 250
- Left: bend is clamped left from the heating element position
- Right: bend is clamped right from the heating element position

Type	Left Code	Right Code	Weight (kg)
Type 160	**790 150 205**	**790 150 206**	0.800
Type 250	**790 151 205**	**790 151 206**	1.822
Type 315	**790 152 205**	**790 152 206**	2.681



Pipe lifter

- Convenient movement of the welded pipes through the base machine
- Lifting the pipes out of the clamps or inserts, to let the bead pass without blocking
- Supporting the welded pipes on height adjustable rollers
- The pipe lifter could be easily assembled to the base machine
- The delivery contains one left and one right pipe lifter and one lever

Type	Code	Weight (kg)
Type 160	**790 150 050**	9.000
Type 250	**790 151 050**	11.000
Type 315	**790 152 050**	12.500

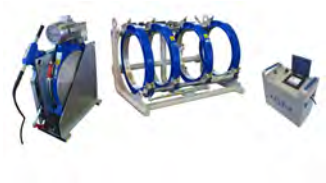


Pressure Shut-Off Valve

- Time saving in the butt fusion process, by working with 2 base machines
- Enabling to disconnect the base machine under pressure from the hydraulic unit during the cooling time
- Close the pressure valve, release pressure at the hydraulic unit, disconnect the hoses from the base machine. Keep the joint cooling down
- Use the cooling time for pipe preparation and welding of the next join by connecting the hydraulic unit hoses to a second base machine

Type	Code	Weight (kg)
Type 250 - 315	**790 151 002**	1.500

GF 630 Butt fusion machine





CNC 4.0 630
Automatic butt fusion machine for construction site

Butt Fusion machine to joint PE, PP, PB pipes and fittings for pressure piping systems on building sites and in trenches.
Hydraulically operated with automatic CNC control unit.
Performance: PE up to d 630 mm SDR 11; PP up to d 630 mm SDR 17.6
Including transport packaging (wooden crate); reduction clamping inserts and other accessories to be ordered separately.

- **BASE MACHINE**
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 45° inclination
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete working process
- Weight: 222 kg
- **HYDRAULIC UNIT**
- Compact aluminium case with innovative design
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Integrated GPS receiver
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be input by means of the barcode scanner (to be ordered separately)
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- Integrated power outlets for planer, heating element
- Accumulator for pressure equalization during the cooling phase
- Max operating pressure: 160 bar
- Weight: 37 kg
- **PLANER**
- Powerful parallel planer for single or double-sided facing of pipe ends
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up
- Weight: 99 kg
- **HEATING ELEMENT**
- High performance, electronically controlled heating element
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Weight: 39 kg
- Input power: 400 V / 8000 W
- **CASE**
- For safe storage of planer and heating element
- Weight: 55 kg

d-d (mm)	Performance	Code	Weight (kg)
315 - 630	400 V/11000 W	**790 155 001**	595.000

GF 630 Accessories



Reduction clamping inserts

In order to mount the inserts d 315/d 355/d 400/d 450 to the base clamp d 630, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

- Reductions in inch sizes or special diameters upon request
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.

narrow Code	Weight (kg)	wide Code	Weight (kg)
790 116 020	3.622	**790 116 012**	3.698
790 116 021	3.267	**790 116 013**	3.727
790 116 022	2.383	**790 116 014**	3.836
790 116 023	2.273	**790 116 015**	3.276
790 117 238	3.700	**790 117 012**	4.500
790 117 239	3.800	**790 117 013**	4.900



Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

d-d (mm)	Code	Weight (kg)
630 - 1000	**790 124 029**	153.000



Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts d 315, d 355, d 400, d 450
- 8 wide reduction inserts d 500, d 560

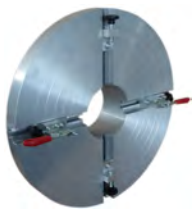
Code	Weight (kg)
790 117 021	201.000



Chamfered upper clamp

- Necessary for welding short-leg bends having diameters equal of the maximum machine dimension

Code	Weight (kg)
790 345 233	10.490



Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

Code	Weight (kg)
790 117 029	29.000

WR 200 Welding recorder



WR 200 / WR 200 S
Welding Recorder for manually operated butt fusion machines (ECOS, TOP, GF)

The WR 200 / WR 200 S assists the welder to ensure the quality of the butt-fusion jointing according to country specific standards. The user is guided through all preparation and fusion steps. The selection of the fusion data like the used material, welding standard, diameter and wall thickness (SDR) is supported by a menu. The complete fusion sequence is supervised and recorded. The welding protocols can be easily exported via USB stick to any personal computer for further management or printout. The welding protocols can be directly printed out at jobsite by means of the on-board printer (WR 200 only). The recorder is protected by a robust plastic case of IP 65 protection class. The power and connecting cables are stored in a separate box (WR 200) or in a compartment directly integrated in the case (WR 200 S). The WR 200 can be connected to hydraulically operated butt-fusion machines for construction site, even by later retrofitting of machines in service centres. The WR 200 S **ECO version** is also available, to specifically work in combination with ECO S machine models.

Description:

- Intuitive user guidance menu
- Welding standard selection e.g. DVS, UNI, WIS, ISO
- Welding process customisable: 4 user-defined cycles available
- Additional data input as: operator-ID, job and order number, joint number, GPS coordinates from an independent device
- On-board printer for direct print pout of welding protocols at jobsite (WR 200 only)
- USB interface for welding protocols transfer
- Internal memory capacity: 250 protocols
- Selection of operator language
- Battery support for an autonomy of 10 hours (no data loss during power interruption)
- “Rent Guardian” function to set and control the rental period of the unit
- Available protocols format: TXT for easy printout, CSV for database management with Welding Book application
- Fully compatible with butt-fusion machines already working with former welding recorder models SUVI® 50 and WR 100
- Working temperature range: -10°C to +50°C

Type	Performance	Dimensions	Code	Weight (kg)
WR 200	230 V	350x300x250 mm	**790 119 401**	5.000
WR 200 CYRILLIC	230 V	350x300x250 mm	**790 119 425**	5.500



Trolley for hydraulic unit

- For easier transportation on site, including support for WR 200 welding recorder

Code	Weight (kg)
790 146 020	25.000

IM 250 Butt fusin machine



Back stop

- Prevents the components from slipping out of the clamping device during fusion.

Code	Weight (kg)
790 142 061	3.175

IM 315 Butt fusin machine



IM 315
Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range: d90-315 mm, from SDR 41 up to SDR 11 with PE,PP d315 mm
- 115 V on request!
- **BASE MACHINE**
- High precision, distortion-free and robust machine base
- Integrated swivel tables for angular jointing up to 30° (2x15°)
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Fusion pressure is maintained with a user friendly fast-locking handle
- Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
- Optional outer, horizontally removable clamping devices available
- Weight (including planer and heater): 169 kg
- **PLANER**
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- Integrated safety switch to prevent unintentional start-up
- Self-locking mechanism in working position
- **HEATER**
- High-performance and precision heater with electronic temperature control (2500W)
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Pull-off mechanism to automatically detach the heating plate from pipe ends
- Metal sheet cover to protect the heating plate in idle position
- Integrated thermometer for fast visual check of plate temperature
- **ADDITIONAL STANDARD EQUIPMENT**
- Reduction clamping inserts set d 90-315 mm
- Pipe supports for picking up reduction supporting inserts d 90-315 mm
- Reduction pipe supporting inserts set d 90-315 mm
- Timer to clock fusion times
- Machine specific tool set

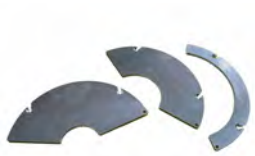
d-d (mm)	Performance	Description	Code	Weight (kg)
90 - 315	230 V / 3500 W	Without transport crate	**790 143 005**	229.000
90 - 315	230 V / 3500 W	With standard transport crate	**790 143 001**	269.000
90 - 315	230 V / 3500 W	With special transport crate	**790 143 003**	366.000



IM 315 - D
Butt fusion machine for industrial applications

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Equipped with a load cell and digital display for easy viewing and precise indication of the welding force.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range: d90-315 mm, from SDR 41 up to SDR 11 with PE,PP d315 mm
- 115 V on request!
- **BASE MACHINE**
- High precision, distortion-free and robust machine base
- Integrated swivel tables for angular jointing up to 30° (2x15°)
- Handwheel for easy moving of machine carriage
- Exact pressure adjustment via direct spring load transfer
- Digital display for force indication
- Fusion pressure is maintained with a user friendly fast-locking handle
- Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
- Optional outer, horizontally removable clamping devices available
- Weight (including planer and heater): 169 kg
- **PLANER**
- Optimized cutting geometry for even and chatter-free planing
- Swivel mounted for ergonomic handling
- Mechanical stop to provide single sided planing and defined facing depth
- Integrated safety switch to prevent unintentional start-up
- Self-locking mechanism in working position
- **HEATER**
- High-performance and precision heater with electronic temperature control (2500W)
- High accuracy of +/- 4°C over the entire heating surface
- High quality, non-stick PTFE coating
- Pull-off mechanism to automatically detach the heating plate from pipe ends
- Metal sheet cover to protect the heating plate in idle position
- Integrated thermometer for fast visual check of plate temperature
- **ADDITIONAL STANDARD EQUIPMENT**
- Reduction clamping inserts set d 90-315 mm
- Pipe supports for picking up reduction supporting inserts d 90-315 mm
- Reduction pipe supporting inserts set d 90-315 mm
- Timer to clock fusion times
- Machine specific tool set

d-d (mm)	Performance	Description	Code	Weight (kg)
90 - 315	230 V / 3500 W	With standard transport crate	**790 143 002**	269.000
90 - 315	230 V / 3500 W	With special transport crate	**790 143 004**	366.000



Reduction clamping inserts set

- Dedicated to a single clamping device: 2 clamping inserts of each dimension.

d-d (mm)	Code	Weight (kg)
90 - 280	**790 143 032**	17.500



Outer base clamping devices

d (mm)	Type	Code	Weight (kg)
315	L	**790 143 030**	15.867
315	R	**790 143 031**	15.867



Back stop

- Prevents the components from slipping out of the clamping device during fusion.

Code	Weight (kg)
790 142 061	3.175

Tools for installation of plastic pipes



KS 355 Plastic pipe cutter

- The KS 355 is the ideal tool for right-angled cuts with no misalignment of PE, PP and PVC pipes
- Pipe outer dimension from 160 – 355 mm, wall-thickness from 8 – 40 mm
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts necessary
- Weight of the saw: 13,0 kg
- Supplied with transport box: Dimension 700 x 350 x 500 mm; Weight 17,0 kg

d-d (mm)	Code	Weight (kg)	Power
160 - 355	**790 202 001**	35.000	1750 W; 230 V; 50/60 Hz



Chamfering tools

- Chamfering tool (15° bevel) for plastic pipes. Fast and reliable adjustment to the different pipe diameters and wall thickness.

d-d (mm)	Code	Weight (kg)
40 - 200	**790 309 001**	1.300
50 - 315	**790 309 002**	2.600



Chamfering tools

- Chamfering tool (15° bevel) for plastic pipes. Fast and reliable adjustment to the different pipe diameters and wall thickness.

d-d (mm)	Code	Weight (kg)
25 - 110	**790 309 006**	1.100
25 - 200	**790 309 003**	1.300
63 - 400	**790 309 004**	2.600



Outer bead remover

d-d (mm)	Code	Weight (kg)
110 - 160	**790 109 241**	1.240
140 - 250	**790 109 242**	1.950
180 - 315	**790 109 243**	2.090
280 - 450	**790 109 244**	2.700

Manual fusion tools





MSE 63/MSE 110 MSE socket fusion tool

Note:
For fusion jointing of PP, PE and PVDF pipes and fittings.Size range d 16 - 110 mm

Code	Weight (kg)
790 105 081	1.700
790 105 096	2.075
790 105 082	1.800
790 105 083	3.200
790 105 084	3.200
790 105 126	3.200



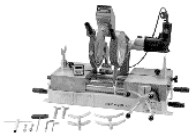
MSE 63/MSE 110 Socket fusion toolset

- For fusion jointing of PP and PE pipes and fittings. For PVDF special spigots and bushes are needed.
- All devices equipped with on/off switch, mains and temperature control lamp
- Choice of electronic or thermostatic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Heating bushes and spigots
- Available as a complete set in a practical metal case
- Table clamp
- Floor stand for MSE 63
- Alen screws and key
- T = thermostatic temperature control / E = electronic temperature control

d-d (mm)	Type	Performance	Code	Weight (kg)
16 - 63	MSE 63 T	230 V/800 W	**790 105 085**	8.700
16 - 63	MSE 63 E	230 V/800 W	**790 105 086**	8.700
16 - 63	MSE 63 T	115 V/800 W	**790 105 098**	8.600
16 - 63	MSE 63 E	115 V/800 W	**790 105 099**	9.979
16 - 110	MSE 110 T	230 V/1500 W	**790 105 087**	17.700
16 - 110	MSE 110 E	230 V/1500 W	**790 105 088**	16.523
16 - 110	MSE 110 T	115 V/1500 W	**790 105 128**	17.700
16 - 110	MSE 110 E	115 V/1500 W	**790 105 129**	18.000

Industry Fusion Machines

Working Range

Size	16	20	25	32	40	50	63	75	90	110	125	140	160	180	200	225	250	280	315
SG 125 		■	■	■	■	■	■	■	■	■	■								
SG 160 	■	■	■	■	■	■	■	■	■	■	■	■	■						
IM 250 							■	■	■	■	■	■	■	■	■	■	■		
IM 315 									■	■	■	■	■	■	■	■	■	■	■
MC 110 		■	■	■	■	■	■	■	■	■									
PSO 701 					■	■	■	■	■	■	■	■	■						
Weld 160 					■	■	■	■	■	■	■	■							
Weld 250 									■	■	■	■	■	■	■	■	■		
SSE 	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
MSE 	■	■	■	■	■	■	■	■	■	■									

SG 125 Socket fusion machine



SG 125
Socket fusion machine

- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- For fusion jointing of PP, PE and PVDF pipes and fittings; dimensional range: d 16 - 125 mm
- **BASE MACHINE**
- Compact, sturdy design, distortion-free machine bed
- Handwheel with torque locking mechanism for the slide movement
- Fast selection of insertion depth according to the pipe dimension
- **HEATER**
- With electronic temperature control
- High temperature accuracy over the entire heating surface
- **ADDITIONAL STANDARD EQUIPMENT**
- Universal, left and right prismatic clamping devices, complete, for clamping pipe and fittings. Additional set of prismatic clamping devices for outer clamping of pipes available as an option.
- V-shaped pipe support
- Back stop
- Machine specific tool set
- Timer to clock fusion times
- Including transport packaging, without accessories

d-d (mm)	Performance	Code	Weight (kg)
16 - 125	230 V/1500 W	**790 310 034**	65.000
16 - 125	115 V/1500 W	**790 310 036**	65.000

SG 125 Accessories



Heating spigots and bushes

- For socket fusion systems in PP, PE
- Always delivered in pairs (also usable for SG 110, SG 125, not for SG 160)
- Type B according to DVS 2208-1 (mechanical calibrated pipe ends)

d (mm)	Code	Weight (kg)
16	**799 300 155**	0.085
20	**799 300 156**	0.090
25	**799 300 157**	0.154
32	**799 300 158**	0.211
40	**799 300 159**	0.309
50	**799 300 160**	0.434
63	**799 300 161**	0.594
75	**799 300 162**	0.981
90	**799 300 163**	1.452
110	**799 300 164**	2.008
125	**799 300 165**	2.200



Set heating spigots and bushes Type B

- For socket fusion systems in PP, PE
- Always delivered in pairs (also usable for SG 110, SG 125, not for SG 160)
- Type B according to DVS 2208-1 (mechanical calibrated pipe ends)

d-d (mm)	Code	Weight (kg)
20 - 125	**790 310 023**	8.600



Chamfering tool

Tool for beveling (15° angle) the outer diameter of the thermoplastic pipes (PVC, ABS, PB, PP, PE). Sliding surface out of industrial felt.

d-d (mm)	Code	Weight (kg)
40 - 200	**790 309 001**	1.300
50 - 315	**790 309 002**	2.600



Manual pipe peeling and chamfering tools

d (mm)	Code	SP	Weight (kg)
20	**799 300 260**	0	0.087
25	**799 300 270**	0	0.080
32	**799 300 280**	0	0.099
40	**799 300 290**	0	0.240
50	**799 300 300**	0	0.244
63	**799 300 310**	0	0.507
75	**799 300 320**	0	0.680
90	**799 300 330**	0	1.006
110	**799 300 340**	0	1.355



1 set face chucks

- For back and front prismatic clamping device (set of 2 pieces)

d-d (mm)	Code	SP	Weight (kg)	Weight (kg)
20 - 110	**790 310 018**	0	1.100	1



Backstop, complete

- Prevents the components from slipping out of the clamping device during fusion.

Code	Weight (kg)
790 310 012	0.600



Tempil sticks

Temperature (°C)	Code	SP	Weight (kg)	Color
253	**761 066 796**	1	0.012	yellow
274	**761 066 797**	1	0.014	red



Gloves

Code	SP	Weight (kg)
761 066 799	1	0.115



Special transport crate

Code	SP	Weight (kg)
790 310 099	0	26.000

SG 160 Combined butt and socket fusion machine



SG160 for fusion jointing PP PE and PVDF
Pipes and fittingssize range for butt fusion d32-160

Note:
Mobile, very compact and universal plastic fusion machine for use in the workshop and on job sites.

* Different version for other countries.

d-d (mm)	Performance	Code	Weight (kg)
16 - 160	230 V	**790 103 031**	44.900
16 - 160	115 V	**790 103 033**	45.000

SG 160 Accessories for butt fusion



Gloves

Code	SP	Weight (kg)
761 066 799	1	0.115



Tempil sticks

Temperature (°C)	Code	SP	Weight (kg)	Color
253	**761 066 796**	1	0.012	yellow
274	**761 066 797**	1	0.014	red

Automation made easy for you

Accurate measurement
Precise control
Reliable actuation



Automation made easy

Measurement, control and actuation. Measurement encompasses a wide range of measurement technologies and parameters. Most of these products are available in plastic and are offered with dedicated fittings, which integrate our sensors perfectly into your piping system. Control comprises various control functionalities (from simple relays to PID controllers) and all major communication technologies. Actuation includes pneumatic, electric and magnetic actuators, which can be seamlessly combined with all kinds of valves and accessories.

The all-in-one solution for your automation needs

Easy to combine
Flexible combination and upgrade

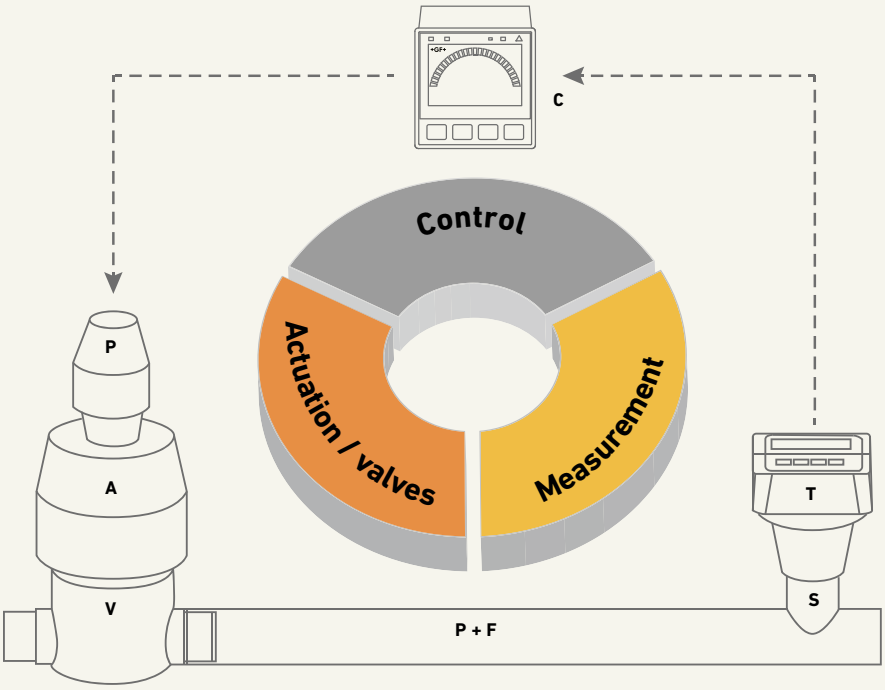
Easy to install
Seamless integration

Easy to connect
State-of-the-art communication technology

Easy to set-up
Plug-and-play design

Easy to operate
Intuitive menu structure

Easy to maintain
Wide range of accessories



S: Sensor
T: Transmitter
C: Controller

P: Positioner
A: Actuator

V: Valve
P+F: Pipe & fittings

Measurement
Accurate measurement



Control
Precise control



Actuation
Reliable actuation



Valves
Modular valves



Measurement

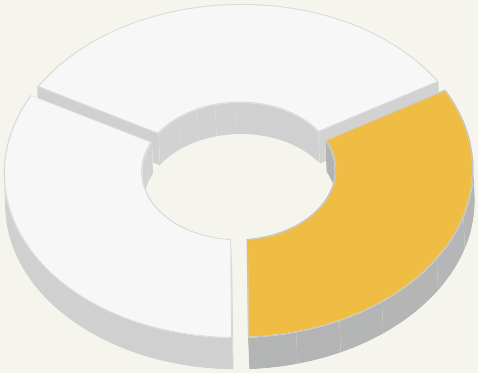
Accurate measurement is the basis for reliable process control



Our measurement offering will cover your needs: flow, pH, conductivity, level, temperature and various water quality parameters. Corresponding to our piping systems, most sensors are available in plastic and are therefore highly resistant to chemicals. Our plug-and-play measurement products are self-explanatory, easy to maintain and offered with suitable installation fittings.

Measurement products

An overview of the key products



Paddlewheel flow sensor



Rotor-X paddlewheel flow sensor type 515

- Non-powered
- 0.3 - 6 m/s (1 to 20 ft/s)
- DN15 - DN900 (½ to 36 in.)
- PP 12.5 bar @ 20 °C (180 psi @ 68 °F)
- PVDF 14 bar @ 20 °C (203 psi @ 68 °F)
- 19.7 Hz per m/s nominal (6 Hz per ft/s nominal)
- Wet tap sensors available



Rotor-X paddlewheel flow type 2536

- 0.1 - 6 m/S (0.3 to 20 ft/S)
- DN15 - DN900 (½ to 36 in.)
- DN15 - DN100 (½ to 4 in.) for PVC
- PP 12.5 bar @ 20 °C (180 psi @ 38 °F)
- PVDF 14 bar @ 20 °C (203 psi @ 68 °F)
- PVC 14 bar @ 20 °C (203 psi @ 68 °F)
- 49 Hz per m/S nominal (15 Hz per ft/S nominal)



Paddlewheel flow sensor type 2537

- 0.1 - 6 m/s (0.3 to 20 ft/s)
- DN15 - DN200 (½ to 8 in.)
- PP 12.5 bar @ 20 °C (181 psi @ 68 °F)
- PVDF 14 bar @ 20 °C (203 psi @ 68 °F)
- 4-20 mA, digital (S^3L), flow switch or pulse outputs (based on part number)



Stainless steel paddlewheel flow sensor - type 2540

- 0.1 - 6 m/s (0.3 to 20 ft/s)
- DN40 - DN900 (1½ to 36 in.)
- 316 stainless steel
- 17 bar @ 100 °C (250 psi @ 212 °F)
- 49 Hz per m/s nominal (15 Hz per ft/s nominal)
- Open collector output



Metalex paddlewheel flow sensor type 525

- 0.5 - 6 m/s (1.6-20 ft/s)
- DN15 - DN300 (½-12 in.)
- 316 stainless steel
- 103 bar (1500 psi @ safety factor 1.5) @149 °C (300 °F)
- 39 Hz per m/s nominal (12 Hz per ft/s nominal)

Magmeter



Magmeter (blind or display) type 2551

- 0.05 - 10 m/s (0.15 to 33 ft/s)
- DN15 - DN900 (½ to 36 in.)
- 10.3 bar @ 25 °C (150 psi @ 77 °F)
- 4 - 20 mA, or frequency/digital (S^3L) outputs
- Optional relay outputs



Metal magmeter type 2552

- 0.05 - 10 m/s (0.15 to 33 ft/s)
- DN50 - DN2550 (2 to 102 in.)
- 316 stainless steel & PVDF
- 20.7 bar @ 25 °C (300 psi @ 77 °F)
- 4 - 20 mA, frequency/digital (S^3L)
- Hot-tap using ball or gate valves



When the level ma

Inline flow sensors



Turbine flow sensor type 2100

- 0.38 to 38 lpm (0.10 to 10 gpm)
- DN15 (½ in.)
- PVDF
- 16 bar @ 20 °C (232 psi @ 68 °F)
- Open collector output
- Use with end fitting: 3-2100-31 to 3-2100-38



Micro-flow rotor sensor type 2000

- 0.11 - 12.11 lpm (0.03 - 3.2 gpm)
- ¼ in. NPT or ISO 7/1-R1/4 threads
- Polyphenylene sulphide and PEEK
- 5.5 bar @ 0 ° to 80 °C (80 psi @ 32 °F to 176 °F)
- Open collector output
- Standard cable 7.6 m (25 ft)



Mini-flow rotor sensor type 2507

- 400 - 12 000 mL/m (0.1 to 3.2 U.S. gpm)
- G ¼ in. ports, ¼ in. NPT pipe adapters
- PVDF
- 5.5 bar @ 24 °C (80 psi @ 75 °F)
- Open Collector output
- Standard cable 7.6 m (25 ft)

Displays / transmitters



SmartPro transmitter type 9950

- One instrument for multiple sensor types
- Two different sensor types can be combined in one instrument
- Configurable display
- Derived measurements
- Advanced boolean logic
- Optional modules can be added for additional capabilities
- USB Port for field upgrades using standard USB flash drive



Flow integral mount type 9900

- Local display for sensor mounted instruments
- Provides 4 - 20 mA output
- "At a glance" visibility
- "Dial-type" digital bar graph
- NEMA 4X/IP65



SmartPro transmitter type 9900

- Multi-parameter input selection
- Large auto-sensing backlit display
- "Dial-type" digital bar graph
- Optional fi eld upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional relay, direct conductivity / resistivity, 4 to 20 mA output, and HART modules are available



Battery powered flow totaliser type 8150

- Displays GPS, GPM, GPH, GPD, LPS, LPM, LPH, LPD
- Battery powered
- Single input
- Panel or field mount
- 3 totalisers, auto calibration
- Use with 515 or 525 flow sensors



tters

Variable area flow meters



Variable area flow meters type 335 / 350, SK50-73

- Taper tubes in PVC transparent, PA, PSU, PVDF
- Union connection with PVC (std)
- DN10 - DN65 (⅜" - 3 ½")
- PN10
- Optional switch feedback
- Special scales on request

Ultrasonic flow meters



Portaflow portable ultrasonic flow meter - type 330 / 220

- 0.1 m/s - 20 m/s
- d13 - d2000
- Battery powered, AC 110 - 240 V
- Output: 0/4 to 20 mA, RS 232, USB, pulse
- Data logger (type 330)
- Transit time measurement



Ultrasonic flow meter type U1000

- 0.1 m/s - 10 m/s
- d25 - d115
- DC 12 - 24 V
- Output: 4 - 20 mA, pulse or frequency
- Transit time measurement



Ultraflow wall mount ultrasonic flow meter - type 3000 / 4000

- 0.1 m/s - 20 m/s
- d13 - d2000
- DC 24 V or AC 86 - 240 V
- Output 0/4 to 20 mA, RS 232, USB, pulse
- Data logger (type 4000)
- Transit time measurement



Easy to install

pH/ORP sensors and instruments



SmartPro transmitter type 9950

- One instrument for multiple sensor types
- Two different sensor types can be combined in one instrument
- Configurable display
- Derived measurements
- Advanced boolean logic
- Optional modules can be added for additional capabilities
- USB Port for field upgrades using standard USB flash drive



SmartPro transmitter type 9900

- Multi-Parameter input selection
- Large auto-sensing backlit display
- "Dial-type" digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional relay, direct conductivity/ resistivity, 4 to 20 mA output, and HART modules are available



Threaded DryLoc pH/ORP electrode - type 2774 - 2777

- 0 - 14 pH, ± 2,000 mV ORP
- Ryton body, PTFE junction
- Use sensor ¾"threads for mounting
- DryLoc preamplifier connection with gold plated pins
- Suitable for submersible applications
- For use with 2750/2760 preamplifiers



DryLoc pH/ORP electrodes type 2724-2726

- 0 - 14 pH, ± 2,000 mV ORP
- Ryton body, PE junction
- Use fittings for in-line applications or ¾" NPT or ISO
- Suitable for submersible applications
- DryLoc preamplifier connection with gold plated pins



Differential DryLoc pH/ORP electrodes type 2764 - 2767

- 0 - 14 pH, ± 2,000 mV ORP
- Ryton body, PTFE junction
- Use sensor 1 inch threads for mounting
- DryLoc preamplifier connection with gold plated pins
- For use with 2750/2760 preamplifiers



pH/ORP Wet-Tap assembly - type 3719/ 2756, Wet-Tap electrodes type 2757

- Use a wet-tap style sensor for 0 - 14 pH, ± 2,000 mV ORP
- CPVC, PVC
- 1½ or larger
- 1½ or 2 NPT, ISO 7/1 - R1.5 or R2
- Electrode removal without process shutdown



DryLoc pH/ORP electrodes for harsh applications – type 2734 - 2736

- Enhanced reference and bridge gels to resist chemical poisoning
- Ryton (PPS) body and PTFE junction for broad range of chemical compatibility
- PTFE reference junction resists fouling and chemical attack
- Mounts in Signet standard fittings from DN15 to DN100 (½ to 4 in.)



DryLoc pH/ORP Smart Sensor Electronics type 2751

- -1 - 15 pH, ± 2,000 mV ORP
- PBT, CPVC (PVC-C)
- Probe health monitoring, glass impedance and broken glass detection
- Memory chip interface
- Use with 8900, 9900 and 9950
- In-line and submersible versions available



Conductivity / resistivity sensors and instruments



SmartPro transmitter type 9950

- One instrument for multiple sensor types
- Two different sensor types can be combined in one instrument
- Configurable display
- Derived measurements
- Advanced boolean logic
- Optional modules can be added for additional capabilities
- USB Port for field upgrades using standard USB flash drive



SmartPro transmitter type 9900

- Multi-parameter input selection
- Large auto-sensing backlit display
- "Dial-type" digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional relay, direct conductivity/ resistivity, 4 to 20 mA output, and HART modules are available



Dual-channel conductivity controller - type 8860

- Displays µS, mS, KΩ, MΩ, PPM
- AC or DC supply
- Up to 2 sensor inputs
- Up to 2 Open collector outputs and 4 relay outputs
- Up to 3 active current outputs
- % reject, % recovery and ratio functions



Conductivity sensor electronics with PVDF type 2850

- 0.055 - 400 000 µS (0.02 - 200 000 ppm) (18.2 MΩ - 1 KΩ)
- PBT (integral mount) /PBT/CPVC (universal J-box)
- Integral systems connect to the 2839 series electrodes or 2819 series electrode via 3-286X universal j-box assembly
- 4 - 20 mA or digital (S^3L)
- Factory NIST certified



Conductivity integral system with 9900 transmitter

- Local display for sensor mounted instruments
- Provides 4 - 20 mA output
- "At a glance" visibility
- "Dial-type" digital bar graph
- NEMA 4X/IP65



PVDF conductivity electrodes type 2839 - 1V(D) - 2842 - 1V(D)

- 0.055-200 000 µS (0.02-100 000 ppm) (18.2 MΩ - 1 KΩ)
- 316 SS and PVDF
- Dual threaded NPT or ISO
- Connection to 9900 - 1, 8900 instruments or 2850 sensor electronics
- NIST certificate



Conductivity/resistivity electrodes type 2818 - 2823

- 0.055 - 400 000 µS (0.02-200 000 ppm) (18.2 MΩ - 1 KΩ)
- 316 SS or titanium (hastelloy-C also available upon request)
- Reversible threads or sanitary flange connections
- Connect to 2850 sensor electronics

Dual-Channel ProcessPro's -3 are still available

Temperature and pressure sensors and instruments



SmartPro transmitter type 9950

- One instrument for multiple sensor types
- Two different sensor types can be combined in one instrument
- Configurable display
- Derived measurements
- Advanced boolean logic
- Optional modules can be added for additional capabilities
- USB port for field upgrades using standard USB flash drive



SmartPro transmitter type 9900

- Multi-parameter input selection
- Large auto-sensing backlit display
- "Dial-type" digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional relay, direct conductivity/ resistivity, 4 to 20 mA output, and HART modules are available



Temperature integral system with 9900 transmitter

- Local display for sensor mounted instruments
- Provides 4 - 20 mA output
- "At a glance" visibility
- "Dial-type" digital bar graph
- NEMA 4X/IP65



Temperature sensor type 2350

- In-line mounting: 10 °C to 100 °C (14 °- 212 °F)
- Submersible mounting: 10 °C to 85 °C (14 ° - 185 °F)
- PVDF
- ¾ inch dual threaded for in-line or submersible installation
- 4 - 20 mA or digital (S^3L)



Pressure integral system with 9900 transmitter

- Utilizes the 2450 sensor for pressure or hydrostatic level measurement
- Local display for sensor mounted instruments
- Provides 4 - 20 mA output
- "At a glance" visibility
- "Dial-type" digital bar graph
- NEMA 4X/IP65



Pressure sensor type 2450

- 0 - 0.7 bar (0 - 10 psig) - U
- 0 - 3.4 bar (0 - 50 psig) - L
- 0 - 17 bar (0 - 250 psig) - H
- Vacuum range available
- Wetted material: PVDF, ceramic and FKM
- ½" union, dual threaded
- 4 - 20 mA or digital (S^3L)

Level sensors and transmitters



Non-contacting radar level transmitter type 2290

- Non-contacting
- Robust against most interfering factors such as fumes, light foaming or fluctuations of pressure or temperature
- Display and comprehensive configuration menu
- PP, PTFE or steel antenna enclosures



Guided radar level transmitter type 2291

- Reliable guidance of measuring signal along probe
- Advanced resilience in case of extreme fumes, thick foam layers or agitation
- Great performance also on media of low dielectric constants
- Special coatings for probes available: PP, PFA and FEP



Ultrasonic integral level transmitter type 2260

- Non-contact principle
- Narrow 5 and 6 ° beam
- Range: 4, 6, 15 meters (13, 20, 50 ft)
- 4 - 20 mA, HART, relay ouput
- PP and PVDF bodies
- ATEX versions
- Quick-set and advanced menu
- Large multi-parameter display
- Allows for open channel measurement



Ultrasonic level sensor type 2270

- Non-contact principle
- Narrow 5 and 6° beam
- Range: 4, 6, meters (13, 20 ft)
- 4 - 20 mA, HART
- PP and PVDF bodies
- Easy to use EView programming software
- Allows for open channel measurement



Hydrostatic level sensor type 2250

- 0 - 10 psi = 0 - 7.03 m = 0 - 23.06 ft
- 0 - 50 psi = 0 - 35.15 m = 0 - 115.32 ft
- Wetted material: PVDF, PVC, ceramic and FKM
- Submersible sensor
- 4 - 20 mA or digital (S^3L)
- Uses hydrostatic pressure for level and depth control

Point level switches



Vibration forks
type 2280

- For safe operation in critical applications
- Cable, DIN connector and connection terminals
- Easy wiring in various applications
- No moving parts
- No maintenance costs



Conductive multipoint switch
type 2281

- Individual cutting of electrodes
- Most economic solution to indicate multiple point levels
- Easy adaptation of switching points on site
- Up to 4 switching points in one sensor
- 4 times faster installation
- Cost effective solution



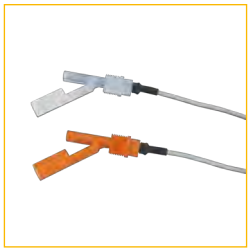
Float switch
type 2285

- Double chambered enclosure
- Easiest way to monitor point levels in open tanks and basins
- High operational safety
- Mercury free switching contact
- Safe use in drinking- and waste water applications



Ultrasonic gap switch
type 2284

- PPS Full-plastic body
- Realiable point level detection even in very corrosive or viscous liquids
- Optimized chemical compatibility
- Compact size
- Easy installation in pipes and small systems
- Robust ultrasonic principle even in highly viscous liquid



Guided float switch
type 2282

- PP or PVDF full-plastic body
- Compact and cost attractive solution for small vessels
- Optimized chemical compatibility
- Ultra compact housing
- Easy installation in compact systems

Water analysis



Chlorine analyzer system
type 4630

- Continuous free chlorine measurement without chemical reagents
- Optional pH sensor for increased accuracy
- Pre-wired panel for easy installation
- Built in pressure regulator and variable area flow meter



Process optical dissolved oxygen sensor type 2610

- Optical DO measurement with no flow requirements
- No membranes or filling solutions
- Flexible communications, 4 to 20 mA or modbus 3-2610-41
- Measurement range: 0-20 mg/L, 0-200 % saturation



Turbidimeter
type 4150

- Complies with U.S. EPA 180.1 or ISO7027
- Two adjustable alarm relays
- Built-in pressure regulator
- Easy access for wiring and maintenance
- Optional auto cleaning for reduced maintenance



Chlorine dioxide system
type 4632

- Complete turnkey system – no additional parts required to install
- Now available with a flow switch interrupt (chlorine and chlorine dioxide)
- Complies with EPA standard 334.0
- Chemical free measuring system – 0-2 ppm
- Optional pH measurement





Easy to operate

Accessories



Switching power supplies type 7310

- Universal AC input/full range
- Protections: short circuit/overload/ over-voltage
- Cooling by free air convection
- Install on DIN rail TS-35/7.5 or 15
- Built in DC OK active signal
- LED indicator for power on



8059 external relay module

- AC and DC powered versions
- External relays controlled by host instrument
- Digital pass-through (DC versions) to simplify wiring
- Relay can be tested locally, and also via the host instrument
- Only compatible with 8900



pH/ORP system tester type 2759

- Battery powered
- Simulates pH and ORP
- Compatible with 2750 and 2760 preamp
- Connects to any pH/ORP instrument



Conductivity/resistivity tools type 2850 - 101 - X

- Available in 5 different values
- Verifies electronic independent of electrode
- Compatible with all conductivity and resistivity instruments
- Temperature compensated to 25 °C



Flow wet-tap valve type 3519

- DN15 - DN900 (½ to 36 in.)
- PVC
- 7 bar @ 20 °C (100 psi max @ 68 °F)
- Use with wet-tap paddlewheel flow sensors type 515 and 2536



i-GO signal converter type 8058

- Connects third party 4 - 20 mA signals to the 8900 and 9900
- Available for single or dual 4 - 20 mA sensor inputs
- Compatible with 8900, 9900



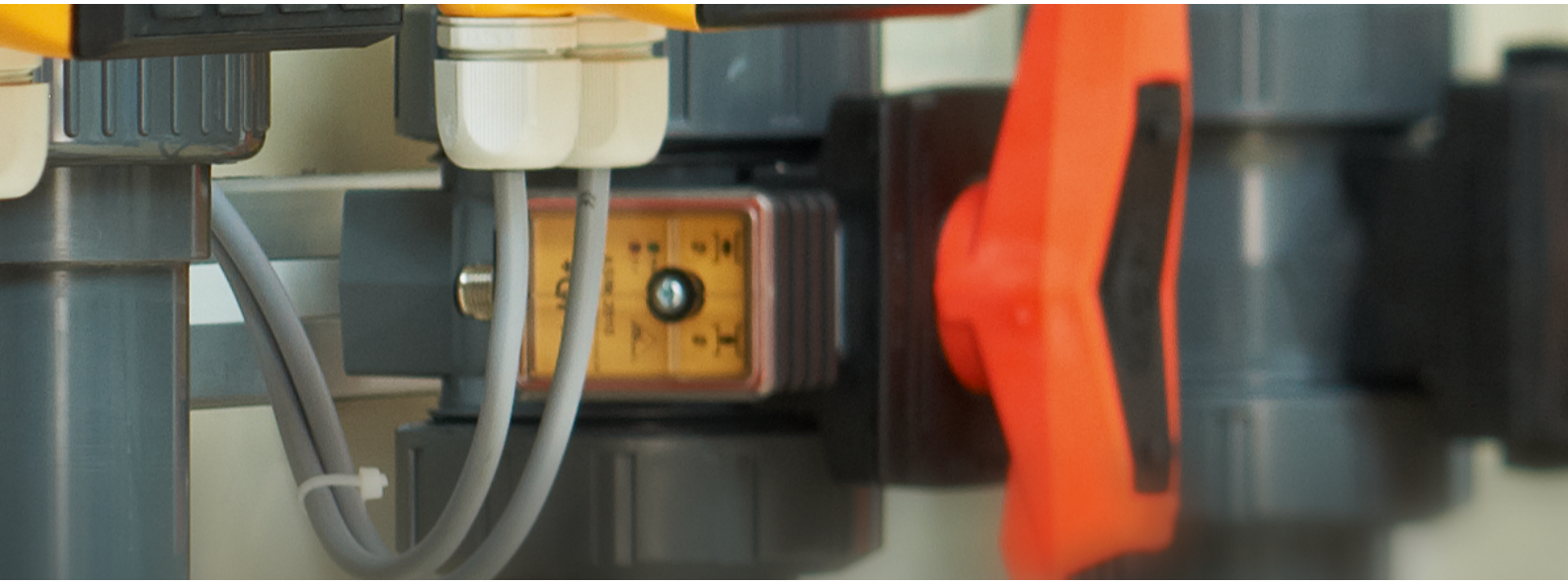
HART – USB modem

- HART to USB converter
- Portable or DIN rail version
- ATEX



Configuration tool type 0252

- Back up and restore SmartPro transmitters and blind sensors
- configurations to a computer file
- User-friendly interface
- Configure settings such as instrument type, units, scale 4 to 20 current loops and modify labels from the computer
- Use a single file to clone multiple
- SmartPro transmitters and blind sensors





Buffer solutions type pH/ORP

- NIST Traceable
- Easily identifiable colour coded buffer solutions
- Liquid or powder versions
- Temperature compensated values
- Kits for easy use



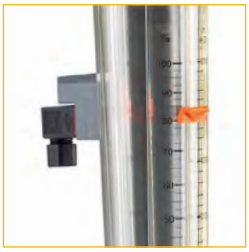
Wall mount accessory kit

- Compact enclosure that works with 9900 transmitter and other ¼ DIN size instruments
- Equiped with a ¼ DIN cutout and two ½" holes at the base
- Mounting hardware and liquid tight connectors are included



Calibration kits for turbidimeter type 4150

- Stable pre-mixed standards that are certified accurate
- Sealed calibration cuvettes
- Shelf-life 12 months
- Easy to follow instructions
- Kits for easy use



Limit contacts GK 10/GK11 for type 335/350 and short version

- Reed contact
- IP65
- 230 V



4 - 20 mA sensor GK 15 for VAFM type 335/350

- 12 - 24 V DC
- IP 65
- 4 - 20 mA (3 wire)



Rear enclosure kits for 9900

- Compatible with all existing 9900-1P transmitters
- NEMA TYPE 4X/IP66 rated for indoor or outdoor installations
- Spacious for any 9900 transmitter accessory module
- Hinged cover design for easy to access wiring
- Hinged cover suitable for wall mount or pipe mount installations



Formazin stock kit for turbidimeter type 4150

- Turbidity standard for most any value
- Three different graduated pipettes included
- Four glass cuvettes with light shield caps
- Easy to follow instructions



Easy to connect

Installation fitting tees



Plastic - metric tees

- ABS* DN20 - DN50
- PVC DN15 - DN50
- PP DN15 - DN50
- PVDF DN15 - DN50
- PE DN15 - DN50



Plastic - PVC tees

- PVC 0.50 - 2.0" / SCH 80
- PVC-C 0.50 - 2.0" / SCH 80
- PVC BSP* 0.50 - 2.0"
- Fiberglass 1.50 - 2.0" / SCH 80



Metal - tees

- 316 SS NPT 0.50 - 2.00"/SCH 40
- Brass NPT 1.00 - 2.00"/SCH 40



Plastic - fiberglass tees

- Fiberglass 1.5 - 2.0"/SCH 80
- Special order 1/2 saddles available up to 12 inch/DN 300



Metal - tees

- Carbon steel NPT 0.50 - 2.0" / SCH 40
- Copper sweat-on 0.50 - 2.0" / SCH K
- Galvanized iron NPT 1.00 - 2.0" / SCH 40

* BSP and ABS fittings are available through your local Georg Fischer sales company.

Weldolets / brazolets



Weldolet

- PVC-U DN65 - DN600
- PP DN65 - DN600
- PE DN65 - DN600
- PVDF DN65 - DN600
- SS DN50 - DN630



Weldolets / brazolets

- Carbon steel 2.5 - 12.0"/SCH 40
- Brass 2.5 - 12.0"/SCH 40
- 316 SS 2.5 - 12.0"/SCH 40

Metalex



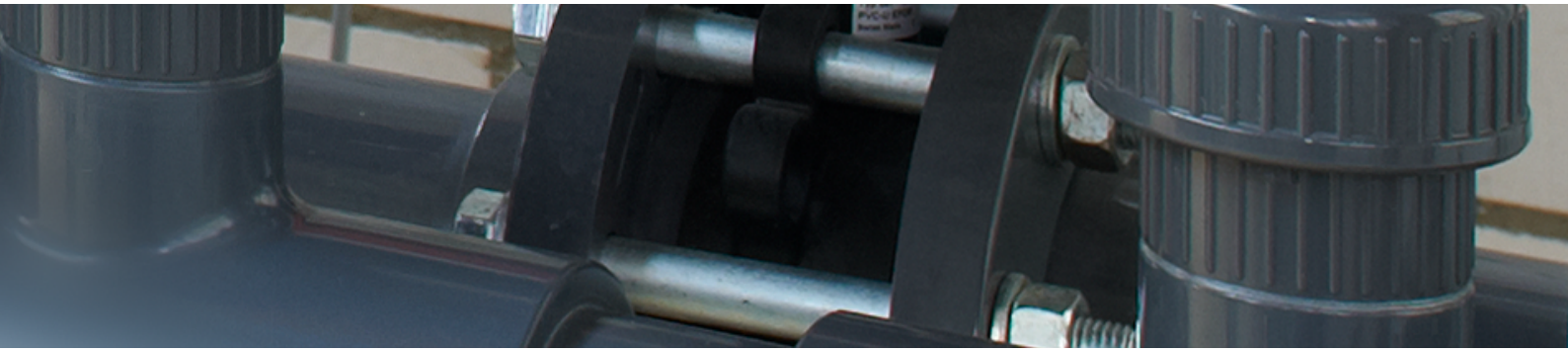
Metalex

- SS socket 0.50 - 1.00"
- SS weld-on 1.25 - 12"



Metalex weld-on mini-tap

- 1.25 - 12"



Wafer fittings



Wafer

- PP DN65 - DN300 (2.5 - 4.0")
- PVDF DN65 - DN200 (3.0")

Saddles



Electrofusion transition

- PE 2.0 - 12.0"



Electrofusion

- PE DN65 - DN400



Clamp-on

- PVC 2.0 - 8.0"/SCH 80
- PVC-U metric DN65 - DN200
- BSP 3" - 6"



PVC-U Glue-on

- PVC 10" - 12"/SCH 80
- Special order up to 20 inch



Strap-on

- Iron 2.0 - 12.0"/SCH 80
- Schedule 80 available up to 48 inches/DN 1200
- Sch 52 and K9 metric ductile iron saddle 56 to 400 mm



Glue-on

- PVC-U DN65 - DN300
- ABS DN65 - DN200

Control

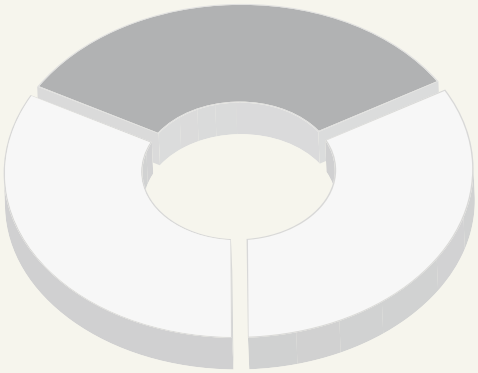
Precise control throughout your automation loop



Clever design makes life easy. All our measurement parameters can be connected with one and the same transmitter, a true multi-parameter controller. Additional functionalities like batch control or communication technologies can be added anytime because of the modular design. Our control products are simple to operate, have intuitive menu structures and can be upgraded modularly.

Control products

An overview of the key products



Multi-parameter instruments



SmartPro transmitter type 9900

- Multi-parameter input selection
- Large auto-sensing backlit display
- „Dial-type" digital bar graph
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- Optional relay, direct conductivity/ resistivity, 4 to 20 mA output, and HART modules are available



Multi-parameter/multi-channel controller type 8900

- AC or DC power option
- Up to 6 sensor inputs (2 frequency inputs max)
- Up to 4 - 20mA outputs
- Up to 8 relays
- Use with all digital (S^3L) sensors



Dual channel transmitter type 9950

- Independent dual channel multi-parameter, flow, pH, ORP, conductivity, resistivity, pressure, temperature, level, volume, salinity, dissolved oxygen, other (4 to 20 mA)
- 2 Passive 4 to 20 mA loop outputs standard
- Options for up to 4 relays – dry contact or solid state
- Derived functions: ratio, difference, sum, % rejection, % recovery

Modules



Modules type 9900

- 2 mechanical relays module
- Direct conductivity module
- HART communication module
- Batch module
- Additional 4 to 20 mA output module



Modules type 9950

- 4 mechanical relays module
- 2 mechanical relays and 2 solid state relays module
- 2 mechanical relays with 4 binary input modules

Accessories



i-GO signal converter type 8058

- Connects third party 4 - 20 mA signals to the 8900 and 9900
- Available for single or dual 4 - 20 mA sensor inputs
- Compatible with 8900, 9900
- Requires programming at the factory
- with the 8350, 8450



PID controller type 3216

- Easy set-up
- Auto-tune
- 24 V or 100 - 230 V
- External set-point
- Manual override via push button
- Compact design

Actuation

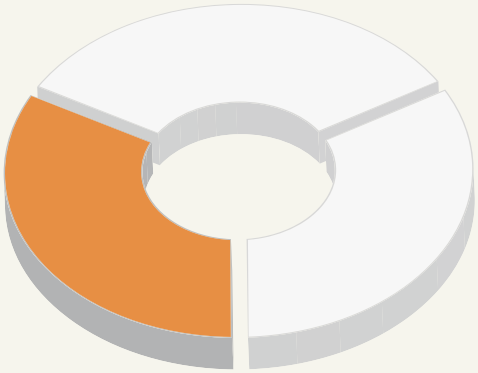
Reliable actuation with configuration flexibility



With our modular set-up, valves and actuators can be combined flexibly and additional functionalities, like positioners or monitoring devices, can be added optionally. Naturally, we offer the whole range in all-plastic designs, which are capable of withstanding harsh environments. A wide range of pressure regulating valves and accessories complete our actuation portfolio.

Actuation products

An overview of the key products



Actuators electric and pneumatic



Electric actuators
type EA15

- Replaces type E11
- 100 - 230 V AC, 24 V AC/DC
- Torques from 20 Nm
- LED enforced position feedback
- Standard: position feedback, heater
- Optional: fail-safe return unit integrated



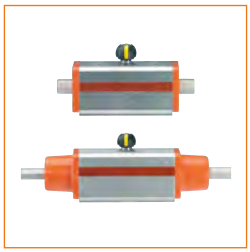
Electric actuators
type EA25, EA45, EA120, EA250

- Replaces type EA21 - 42
- 100 – 230 V AC, 24 V AC/DC
- Torques from 25 Nm – 250 Nm
- LED enforced position feedback
- Standard: position feedback, heater
- Optional: fail-safe return unit integrated, positioner, monitoring, profibus DP V0



Pneumatic actuator
type PA11/PA21

- FC, FO, DA
- Rack and pinion principle
- Accessory interface acc. ISO5211
- Visual position indication
- Full plastic solution
- PA11: 10 Nm / PA21: 20 Nm



Pneumatic actuator
type PA30 - PA90

- FC, FO, DA
- Scotch Yoke principle
- Accessory interface acc. ISO5211
- Visual position indication
- Adjustable end stops
- Various coatings on request

Actuated butterfly valves



Butterfly valve electric
type 145/146/147*

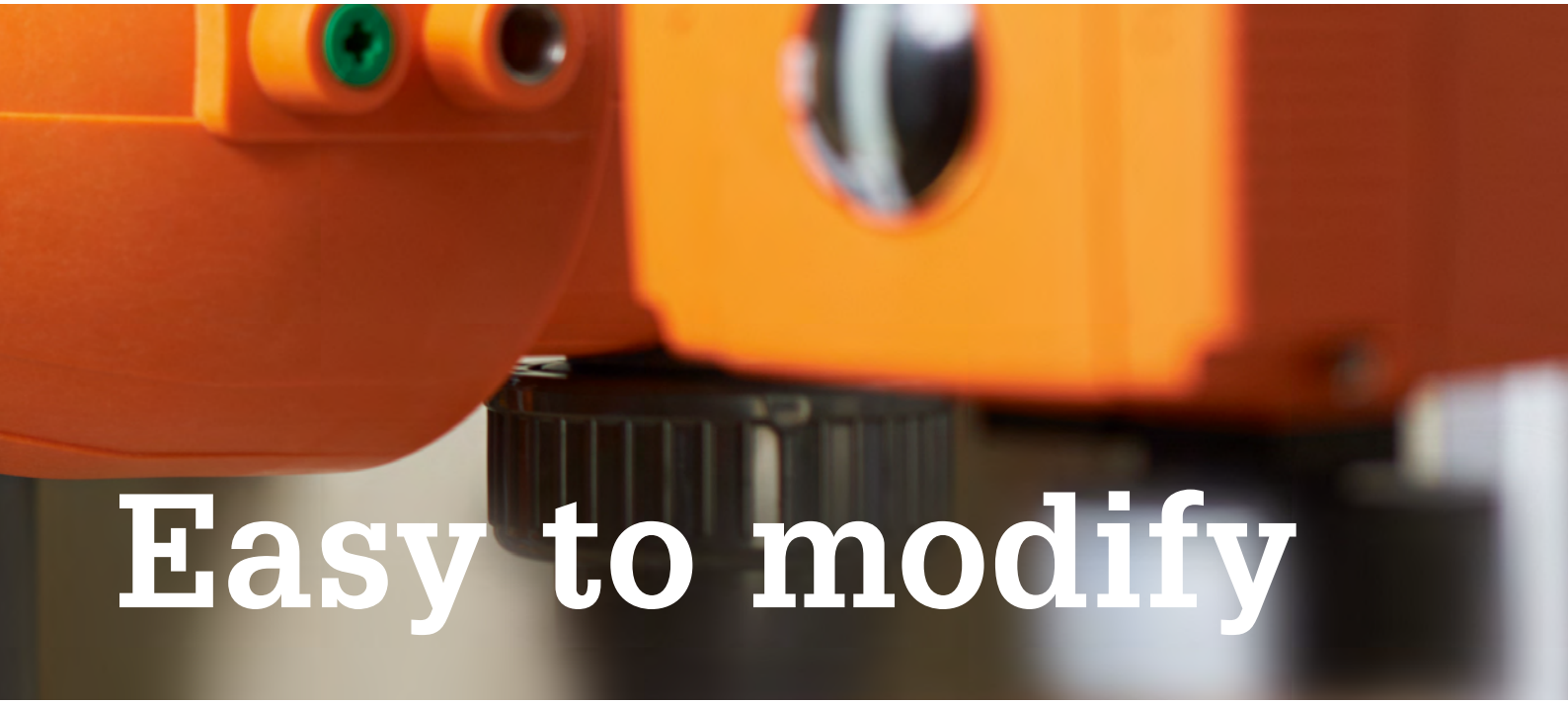
- Electric actuated butterfly valve
- Actuator type: EA45/120/250 (24 V, 110 - 230 V)
- Plastic butterfly valve wafer/lugstyle
- Butterfly valve type 567/578
- PVC-U, PVC-C, ABS, PP-H, PVDF
- 567: DN50 - DN600; 578: DN50 - DN300



Butterfly valve electric
type 038-E/039-E

- Electric actuated butterfly valve
- Actuator type: EA45/120/250 (24 V, 110 - 230 V)
- Metal butterfly valve wafer/lugstyle
- Butterfly valve type 038/039
- 038/039: Ductile iron with powder/epoxy/ rilsan coating
- 038: DN50 - DN600, 039: DN50 - DN1200

* Predecessor type 140/143/144 with electric actuators type EA31/42



Easy to modify

Actuated butterfly valves



Butterfly valve pneumatic
type 240/243/244

- Pneumatic actuated butterfly valve
- Actuator type: PA30-PA90
- Plastic butterfly valve wafer/lugstyle
- Butterfly valve type 567/578
- PVC-U, PVC-C, ABS, PP-H, PVDF
- 567: DN50 - DN600; 578: DN50 - DN300



Butterfly valve pneumatic
type 038 - P/039 - P

- Pneumatic actuated butterfly valve
- Actuator type: PA30 - PA70
- Metal butterfly valve wafer/lugstyle
- Butterfly valve type 038/039
- 038/039: ductile iron with powder/epoxy coating/rilsan coating
- 038: DN50 - DN600; 039: DN50 - DN1200

Actuated ball valves



Pneumatic ball valve
type 230 - 235

- Pneumatic actuated 2-way ball valve
- Actuator type: PA11/PA21 (<DN65)
- Actuator type: PA30-PA90 (>DN50)
- Ball valve 546
- ABS, PVC-C, PVC-U, PP-H, PVDF
- DN10 - DN100



Pneumatic ball valve
type 285 - 288

- Pneumatic actuated 3-way ball valve
- Actuator type: PA11/PA21
- Actuating angle 90 °
- Ball valve 543
- ABS, PVC-C, PVC-U, PP, PVDF
- DN10 - DN50



Electric ball valve
type 179 - 184*

- Electric actuated 2-way ball valve
- Actuator type: EA25/45/120 (24 V, 110 - 230 V)
- Actuating angle 90°
- Ball valve 546
- ABS, PVC-C, PVC-U, PP-H, PVDF
- EA25 DN10-DN50; EA45 /120 DN65-DN100



Electric ball valve
type 167 - 170**

- Electric actuated 3-way ball valve
- Actuator type: EA25 (24 V, 110-230 V)
- Actuating angle 90°; max. 180°
- Ball valve 543
- ABS, PVC-C, PVC-U, PP, PVDF
- DN10 - DN50



Electric ball valve
type 127

- Electric actuated 2-way ball valve
- Actuator type: EA15 (24 V, 110-230 V)
- Actuating angle 90°
- Ball valve 546
- ABS, PVC-C, PVC-U, PP-H, PVDF
- DN10-DN50



Electric ball valve
type 104

- Electric actuated 2-way ball valve
- Actuator type: EA04 (24V, 85-230V)
- Actuating angle 0 - 90 °
- Ball valve 546
- PVC-C, PVC-U, PP-H
- DN10 – DN50 3/8 - 2"
- Limited acces sory range
- Low cycle applications

* Predecessor type 130 - 135 with electric actuators type EA21 / 31

** Predecessor type 185 - 188 with electric actuator type EA21

Actuated diaphragm valves



Diaphragm valve
type 604 /605

- PVC-U, PVC-C, PP-H, PVDF
- EPDM, FKM, PTFE / EPDM, PTFE / FKM
- DN15
- PN6
- pneumatic actuated FC, FO, DA



Diaphragm valve
DIASTAR TenPLUS

- ABS, PVC-U, PVC-C, PP-H, PVDF, PVDF-HP
- EPDM, FKM, PTFE/EPDM, PTFE/FKM
- DN15 - DN50
- PN10 (both sides)
- pneumatic actuated FC, FO, DA
- Accessories available



Diaphragm valve DIASTAR
Six

- ABS, PVC-U, PVC-C, PP-H
- EPDM, FKM
- DN15 - DN50
- PN6
- pneumatic actuated FC



Diaphragm valve
DIASTAR Sixteen

- PVDF, PVDF-HP
- EPDM, FKM, PTFE/EPDM, PTFE/FKM
- DN15-DN50
- PN16
- pneumatic actuated FC, FO, DA
- Accessories available



Diaphragm valve
DIASTAR Ten

- ABS, PVC-U, PVC-C, PP-H, PP-N, PVDF, PVDF-HP
- EPDM, FKM, PTFE/EPDM, PTFE/FKM
- DN15 - DN50
- PN10
- pneumatic actuated FC, FO, DA
- Accessories available



Diaphragm valve
DIASTAR 025

- ABS, PVC-U, PVC-C, PP-H, PVDF, PVDF-HP
- EPDM, FKM, PTFE/EPDM, PTFE/FKM
- DN65 - DN150
- up to PN10
- pneumatic actuated FC, FO, DA
- Accessories available

Actuated process control valves



Solenoid valve
type 157

- direct acting pivoted armature valve
- 2/2-Ways
- PVC-U
- EPDM, FKM
- 230 V AC, 24 V AC, 24 V DC
- DN4-DN8
- 0 - 4 bar depending on dimension



Solenoid valve
type 160/161

- direct acting pivoted armature valve
- 2/2- or 3/2-ways
- PVC-U
- EPDM, FKM
- 230 V AC, 24 V AC, 24 V DC
- DN10-DN20
- 0 - 3 bar depending on dimension



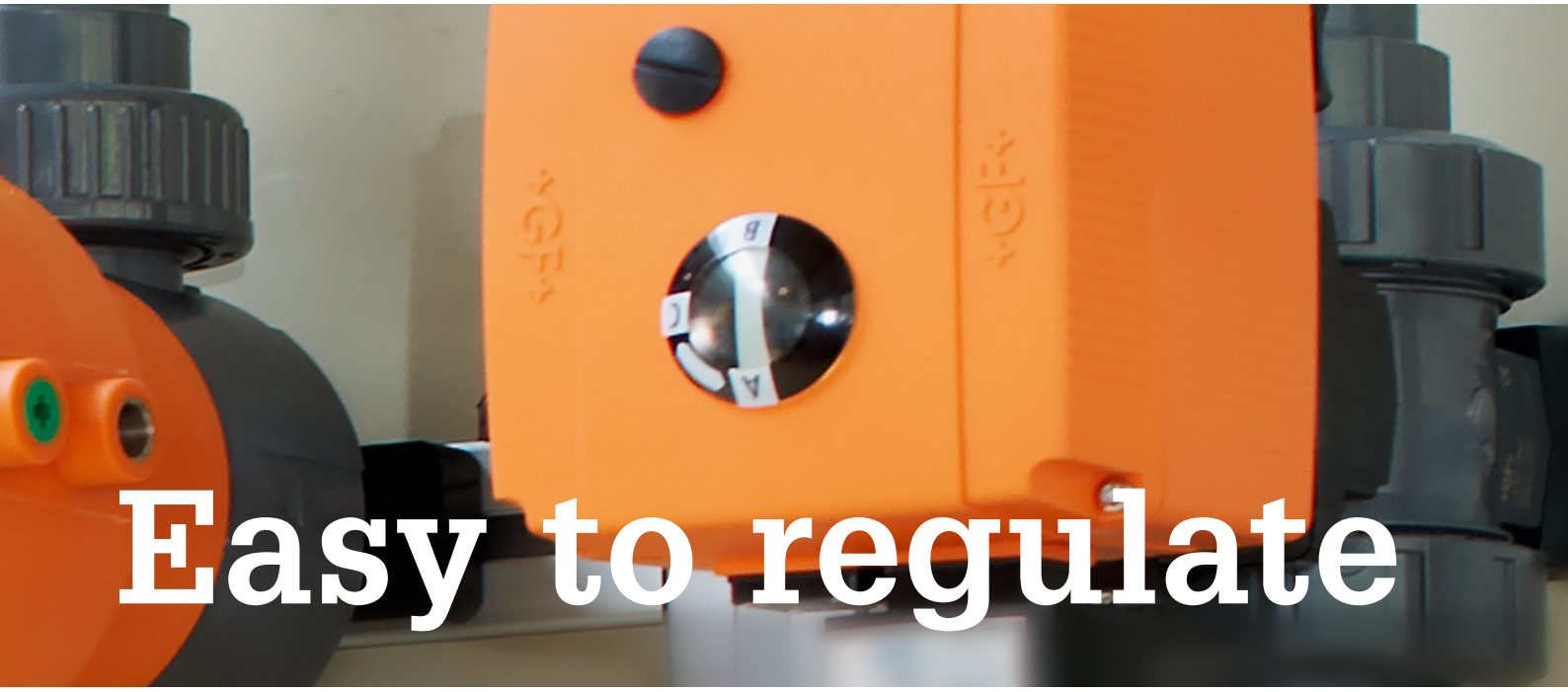
Solenoid valve
type 165

- pilot assisted solenoid valve
- 2/2-Ways
- PVC-U, PVDF
- EPDM, FKM
- 230 V AC, 110 V AC, 24 V AC, 24 V DC
- DN15 - DN50
- 0.5 - 6 bar



Solenoid valve
type 166

- direct acting pivoted armature valve
- 2/2- or 3/2-Ways
- PVC-U, PVDF
- EPDM, FKM
- 230 V AC, 110 V AC, 24 V AC, 24 V DC
- DN3 - DN5
- 0 - 10 bar depending on dimension



Easy to regulate

Pressure regulating valves



Pressure reducing valve type 582

- PVC-U, CPVC, PP-H, PVDF
- Spigot or union connection
- O-ring Material: EPDM, FKM
- DN10 - DN50
- 0.5 - 9 bar or 0.3 - 3 bar
- Manometer with or without gauge guard optional



Pressure retaining valve type 586

- PVC-U, CPVC, PP-H, PVDF
- Spigot or union connection
- O-ring Material: EPDM, FKM
- DN10 - DN50
- 0.5 - 9 bar or 0.3 - 3 bar
- Manometer with or without gauge guard optional



Pressure reducing valve type V82

- PVC-U, PP, PVDF
- EPDM, EPDM-PTFE-coated
- V82 DN65 - 80: 0.5 - 6 bar
  DN100 0.5 - 4 bar



Pressure retaining valve type V86

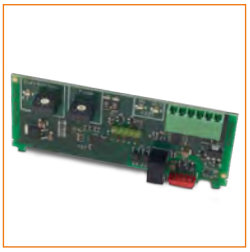
- PVC-U, PP, PVDF
- EPDM, EPDM-PTFE-coated
- V86 DN65 - 80: 1 - 6 bar
  DN100: 1 - 4 bar

Electric accessories



Monitoring board (EA25 - 250)

- Easy monitoring for on/off actuation
- "Plug & Play" installation
- Cycle time extension
- Cycle time monitoring
- Cycle counter
- Motor current monitoring



Positioner (EA25 - 250)

- Input 4 - 20mA or 0 - 10V (can be inverted)
- Output/Feedback 4.20mA (can be inverted)
- Motor current monitoring on board
- "Plug & Play" installation



Fail-safe return unit (E15 - 250)

- Integrated battery including charging management
- Error messages for low battery
- Optional fail safe open/fail safe close
- Optional without battery for external 24V DC source

Profibus (EA25 - 250)

- Version DP V0
- M12 connectors for daisy chain
- Integrated in actuator housing (no external box)
- Can be used in combination with fail-safe return unit
- Monitoring or positioner can be activated via software



Pneumatic accessories



Solenoid pilot valve 3/2-ways type PV94

- 230 V, 50 - 60 Hz
- 115 V, 50 - 60 Hz
- 24 V, 50 - 60 Hz
- 24 V DC
- G⅛, G¼, G6mm
- DN1.2



Solenoid pilot valve 3/2-ways type PV95

- 230 V, 50 - 60 Hz
- 115 V, 50 - 60 Hz
- 24 V, 50 - 60 Hz
- 24 V DC
- G⅛, G¼
- DN1.5 - DN2



Solenoid Pilot valve type 2000

- Modular version for 3/2-way and 5/2-way valves
- 24 V DC
- Connection module AS-Interface
- Connection module profibus interface



Solenoid pilot valve type MNL 532

- Version for 3/2-way and 5/2-way
- Namur connection
- Material of body: Aluminium
- 24 V AC, 24 V DC, 48 V AC, 110 V AC, 230 V AC



Electric position feedback type ER 52-1/ER53-1

- For pneumatic stroke actuators
- For DIASTAR Ten, TenPLUS, Sixteen, 025
- Mechanical switches (AgNi or Au)
- NPN/PNP, Namur connection
- With visual position indication



Electric position feedback limit switch box

- For pneumatic rotary actuators
- For PA11 - 90:
- Mechanical switches (AgNi or Au)
- NPN/PNP, Namur connection
- With visual position indication



Stroke limiter/ manual override

- For DIASTAR all type Ten, TenPLUS, Sixteen, 025



Digital electro-pneumatic positioner type DSR 500

- Mounted on pneumatic control valves
- Linear and rotary actuators
- Nominal stroke 3 - 28 mm
- Self-learning
- Control signal 4 - 20 mA
- 24 V DC

Communication Products

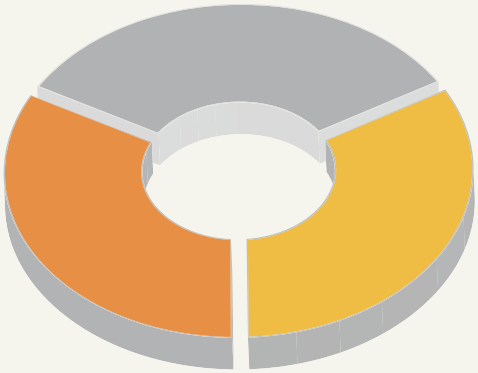
Different communication protocols for different needs

Our automation loop can be managed with various communication technologies and can therefore be seamlessly integrated into existing plant management systems.
We offer analogue and digital communication technologies which support on / off or continuous control loops. Benefits are less wiring, faster installations and more efficient diagnostic and parameterization capabilities.



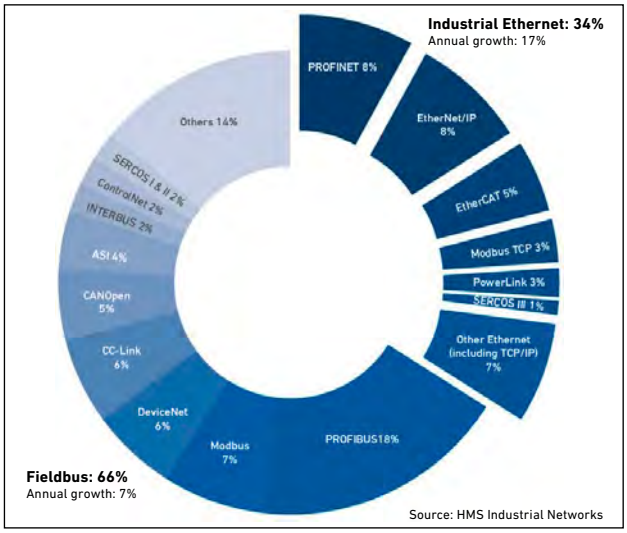
Communication products

Comunication in industry

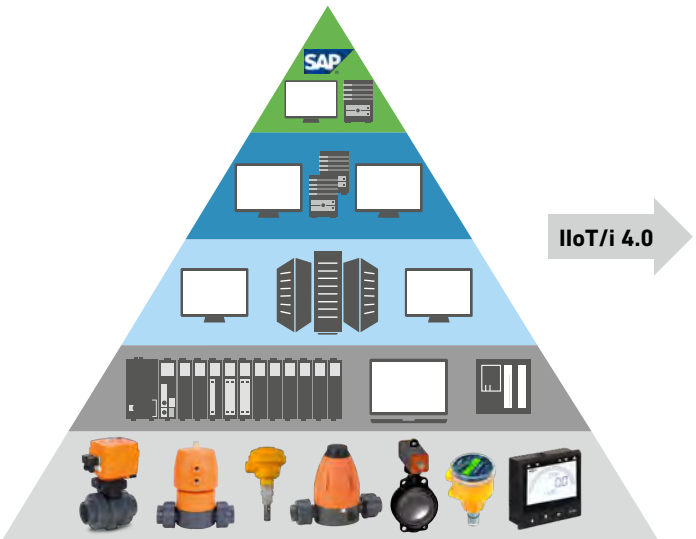


Digital communications with instruments, sensors, and valves is a growing necessity in many applications. The ability to digitally control and gather information from remote devices offers increased flexibility. Internet of Things (IoT), Industrial Internet of Things (IIoT), and Industry 4.0 (i 4.0) are movements in technology that connect individual sensors and actuators to information networks allowing automation and enterprise systems unparalleled access to real time data and information. Already today digital communication is used via different field bus protocols. GF is providing options for Profibus, HART and AS-interface. Converters can be used to transition from one protocol to the other. For the bus communication split please refer to the chart. Very often also standard analogue or digital signals are connected to PLCs to make them accessible for programming. In the future the different layers of system automation will disappear and merge into each other. GF is getting ready to support you in the best way today and in the future.

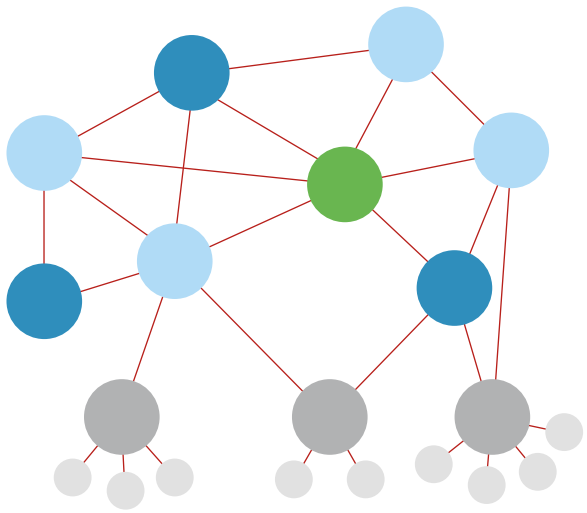
Fieldbus vs. industrial ethernet



Today (Automation pyramide/hierarchic)



Future (Cyper-Physical-Systems)





Communication

PROFIBUS



Profibus concentrator type 3 - 0486

- Connect GF actuated valves and sensors to profibus automation networks
- Supports six S³L sensors or relay modules plus a proportional controlled actuated valve
- Four of the (S³L) inputs support flow frequency devices for cost effective flow monitoring
- Two of the (S³L) inputs support 4 to 20 mA current loop inputs for connections to third party sensors



Profibus for valve cluster

- Modular version for 3/2-way and 5/2-way valves
- Connection module profibus interface
- 24 V DC
- Optional available module AS-Interface



Profibus (EA25 – 250)

- Connectable to Profibus DPVO networks
- Using all the advantages of the standard full plastic GF electric actuator

HART COMMUNICATION PROTOCOL



Transmitter type 9900

- Optional module available



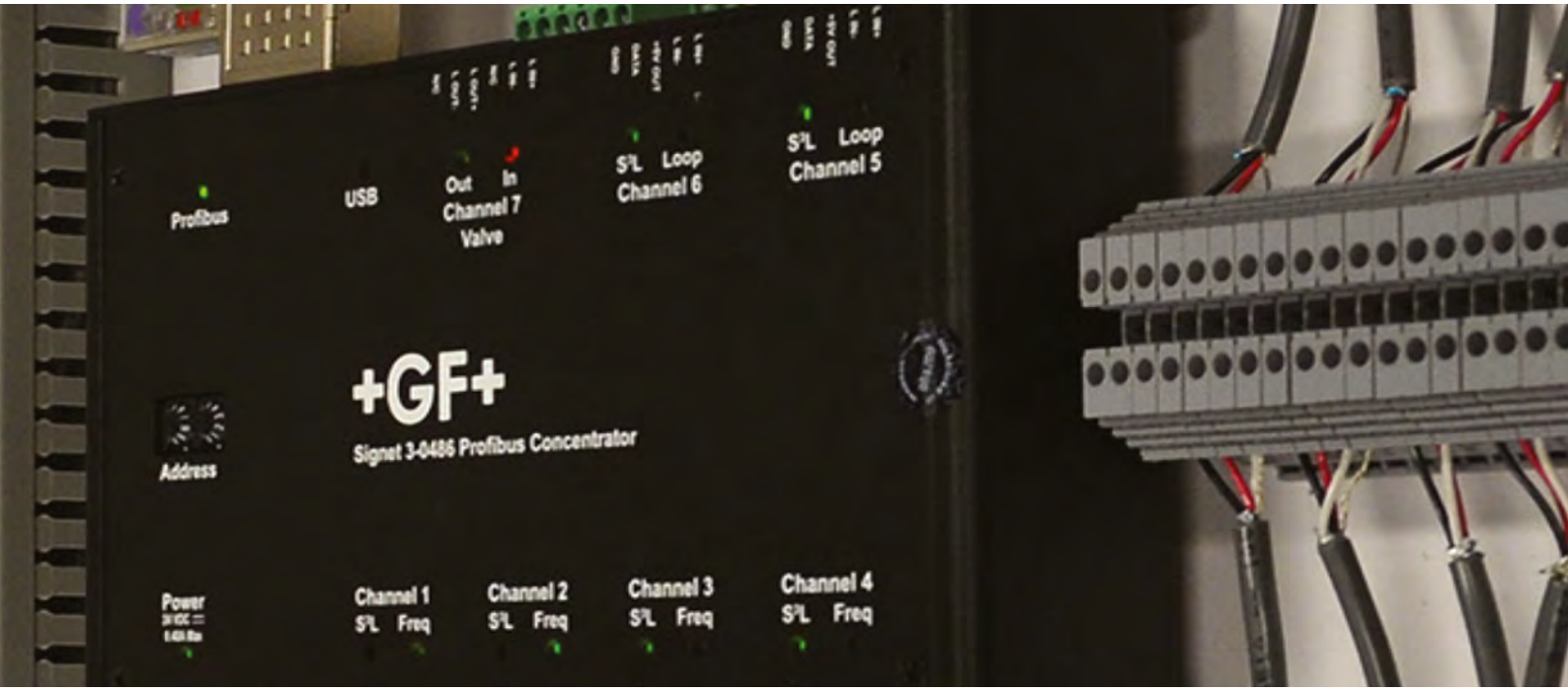
Non-contacting radar level transmitter type 2290

- Non-contacting
- Robust against most interfering factors such as fumes, light foaming or fluctuations of pressure or temperature
- Display and comprehensive configuration menu
- PP, PTFE or steel antenna enclosures



Ultrasonic level sensor type 2260/ ultrasonic level transmitter type 2270

- Non-contacting
- Robust against most interfering factors such as fumes, light foaming or fluctuations of pressure or temperature
- Display and comprehensive configuration menu
- PP, PTFE or steel antenna enclosures





AS-interface for pneumatic rotary actuators

- Pilot valve 5/2-ways
- Electric feedback integrated
- Full plastic housing
- Optical status indicator
- AS interface version 3.0



AS-interface for electric actuators

- Integrated control an electric
- Feedback
- For 24 V DC actuators
- For EA11 - EA42
- Manual override standard



AS-interface for manual valves with feedback

- With integrated feedback
- Ideal for ball valves
- Ideal for butterfly valves
- Ideal for diaphragm valves



AS-interface for pneumatic stroke actuators

- Pilot valve 3/2-Ways
- Compact design
- Full plastic housing
- Optical status indicator
- AS Interface Version 3.0



AS-interface for sensor with switch output

- With switching output
- For level switch
- For flow switch
- For pressure switch
- For temperature switch

Valves

The right valve for your application



We offer one of the most comprehensive valve product ranges, which enables you to find the right match for your application.
Our valves are available in a wide selection of dimensions, materials, chemical resistances, standards, actuation, operation principles and pipe connections and are designed for long service life. The combination of the right valve selection and our high product quality leads to a favorable total cost of ownership.

Manual ball valves



Ball valve
type 546

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FKM, ball seat: PTFE, PVDF
- DN10 - DN100
- Up to PN16 = PVC-U, PVC-C, PVDF; up to PN10 = PP-H, ABS
- Lockable lever, multifunctional module
- Linear version



Linear ball valve
type 546

- PVC-U, PVC-C, ABS, PP-H, PVDF
- DN15 - DN50
- Lockable lever
- Multifunctional module



3-Way vall valve
type 543

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FKM, ball seat: PTFE, PVDF
- DN10 - DN50
- Up to PN10
- Lockable Lever, multifunctional module



Ball valve
type 375

- PVC-U, PVC-C
- EPDM, FKM, ball seat: PTFE
- DN10-DN100
- PN16
- Not actuated



Metering ball valve
type 523

- PVC-U, PP-H, PVDF
- EPDM, FKM, Ball Seat: PTFE
- DN10 - DN15
- Up to PN16

Manual Diaphragm valves



Diaphragm Valve
type 514

- PVC-U, PVC-C, ABS, PP-H, PVDF, PVDF-HP
- EPDM, PTFE/EPDM, FKM, PTFE/FKM
- DN15 - DN50
- Up to PN16
- Lockable handwheel
- Electrical feedback module



Diaphragm valve
type 515

- PVC-U, PVC-C, ABS, PP-H, PP-N, PVDF, PVDF-HP
- EPDM, PTFE/EPDM, FKM, PTFE/FKM
- DN15 - DN50
- Up to PN16
- Lockable handwheel
- Electrical feedback module



Diaphragm valve
type 517 (317)

- PVC-U, PVC-C, PP-H, PVDF, PVDF-HP
- EPDM, PTFE/EPDM, FKM, PTFE/FKM
- DN15 - DN50 (type 317: DN65 - DN150)
- Up to PN16
- Lockable handwheel
- Electrical feedback module



Diaphragm valve
type 519

- PP-H, PP-N, PVDF-HP
- EPDM, PTFE/EPDM, PTFE/FKM
- DN20 - DN20 : d110 - d63
- Up to PN16
- Lockable handwheel
- Electrical feedback module

Manual butterfly valves



Butterfly valve manual type 567

- ABS, PVC-C, PVC-U, PP-H, PVDF
- Sealings: EPDM, FKM, PTFE/FKM
- DN50 - DN600
- PN10
- Lever, Gear, 230 V o. 24 V, FC /FO/DA
- Optional: Integrated position indicator in valve body



Metal butterfly valve type 038/039

- 038: GGG, LUG; 039: GGG Wafer
- Sealings: EPDM, FKM
- 038: DN50 - DN300;
- 039: DN50 - DN1200
- PN10/PN16
- Lever, gear, 230 V o. 24 V, FC/FO/DA



Butterfly valve manual type 578

- ABS, PVC-C, PVC-U, PP-H, PVDF
- Sealings: EPDM, FKM, PTFE/FKM
- DN50 - DN300
- PN10
- Lever, gear, 230 V o. 24 V, FC/FO/DA
- Optional: Integrated position indicator in valve body

Accessories



Multifunctional modules

- Multi functional module
- Accessory for ball valves 546/543
- Limit switch AgNi, Au, Namur, NPN, PNP
- Interface for electric pneumatic actuators



Electrical feedback module

- Electrical feedback module
- Accessory for (manual) diaphragm valves 514 - 519
- Limit switch AgNi or Au
- Self adjusting mechanism



Integrated position indicator

- Integrated position indicator
- Accessory for butterfly valves 567/578
- Limit switch AgNi, AU, Namur, NPN, PNP



Labelling ball valve

- Labelling system for ball valve 546/543/523

Process control valves



Check valve type 561/562

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FKM
- DN10 - DN100
- Up to PN16
- Type 562 with spring



Ventilating valve/ Ventilating and bleed valve type 591/595

- ABS, PVC-C, PVC-U, PP-H, PVDF
- EPDM, FKM
- DN10 - DN100
- Up to PN16
- Type 595 with spring
- Float PP-H / PVDF



Process control valves



Angle seat check valve
type 303/304

- PVC-U, ABS)
- EPDM, FKM
- DN10 - DN80
- PN10



Line strainer
type 305/306

- PVC-U, PVC-C, ABS, PP-H, PVC-U transparent
- EPDM, FKM
- DN15 - DN50, PVC-U up to DN80
- PN10
- Screen: stainless-steel and PVC-U



Water jet suction pump (eductor)
type P20

- PVC-U, PP-H, PVDF
- EPDM, FKM
- DN10 - DN80
- PN10



Gauge guard
type Z500/501

- True plastic design (no metal screws!)
- PVC-U, PP-H, PVDF
- EPDM, EPDM-PTFE-coated
- DN20 or DN 25
- PN10
- With or without pressure gauge



Wafer check valve
type 369

- PVC-U, PP-H, PVDF
- EPDM, FKM
- DN32 - DN300, 1¼ - 12"
- PN10



Throttle valve
type V251

- PVC-U, PP-H, PVDF
- EPDM, FKM
- DN10 - DN50
- PN10



Float valve
type V140

- PVC, PP
- EPDM, FKM
- DN10 - DN80
- PN6
- Vertical mounting position

Ball valves / Butterfly valves / Check valves



Table of contents		Page
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Ball valve type 546



Product description

Due to its material diversity, ball valve type 546 is the ideal valve for use in applications ranging from simple water applications right up to demanding chemical processes. Its modular construction guarantees simple operation, flexibility, universal automation options and the greatest possible process safety.

Function

The ball valve is similar in concept to the plug valve but uses a rotating ball with a hole through it that allows straight-through flow in the open position and shuts off flow when the ball is rotated 90° to block the flow passage. This fitting is primarily used for open/close functions and also for throttling services.

Applications

- Chemical process industry
- Water treatment
- Microelectronics
- Measurement and control
- Shipbuilding
- Food & beverage

Benefits/features

- Manual valve or automatic valve with/without electrical feedback
- Ergonomic hand lever with integrated tool for removing union bushing
- Lockable lever (optional)
- Labeling in lever (optional)
- Integrated fixation system with mounted threaded inserts
- Spacers keep the level of the piping system constant and simplify installation
- Individual online configuration is possible
- Oil-free and silicone-free version
- Very high flow rate
- Universal interface makes possible a combination with all actuators

Flow media

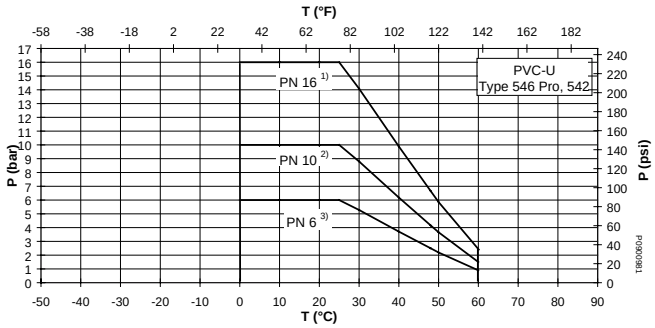
Neutral and aggressive media with a small amount of particles/solids. The chemical resistance is independent of the selected valve material (see list of chemical resistance from GF Piping Systems).

Pressure-temperature diagrams

The following pressure-temperature diagrams are based on a service life of 25 years and water or similar media.

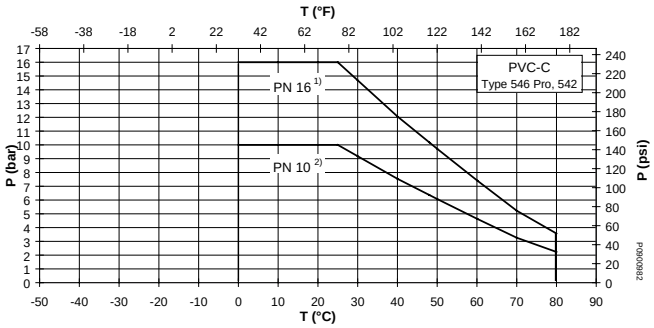
T Temperature (°C, °F)
P Permissible pressure (bar, psi)

PVC-U



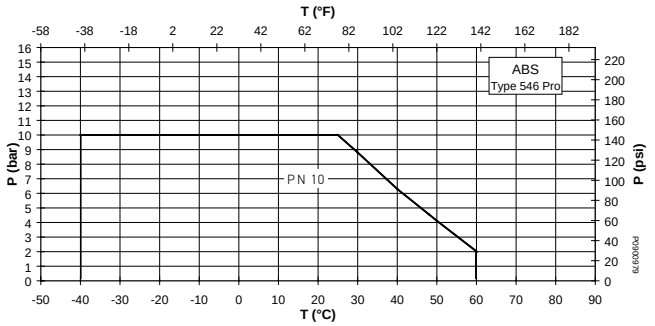
1) The central part of the ball valve is designed for the nominal pressure PN16
2) Depending on the connection, the nominal pressure is reduced to PN10
3) Depending on the connection, the nominal pressure is reduced to PN6

PVC-C

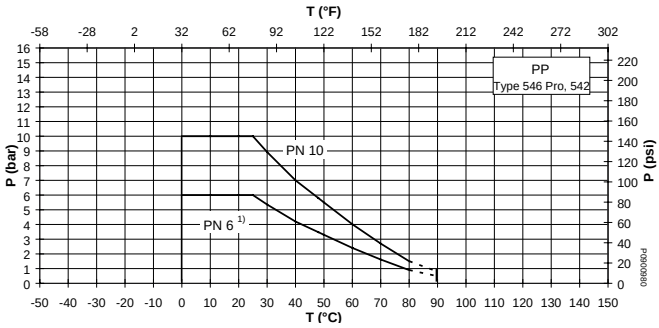


1) The central part of the ball valve is designed for the nominal pressure PN16
2) Depending on the connection, the nominal pressure is reduced to PN10

ABS

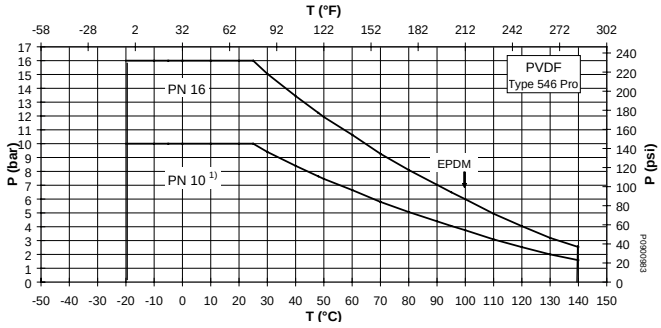


PP



1) For example, ball valve with butt fusion spigot PP or PE100, SDR 17

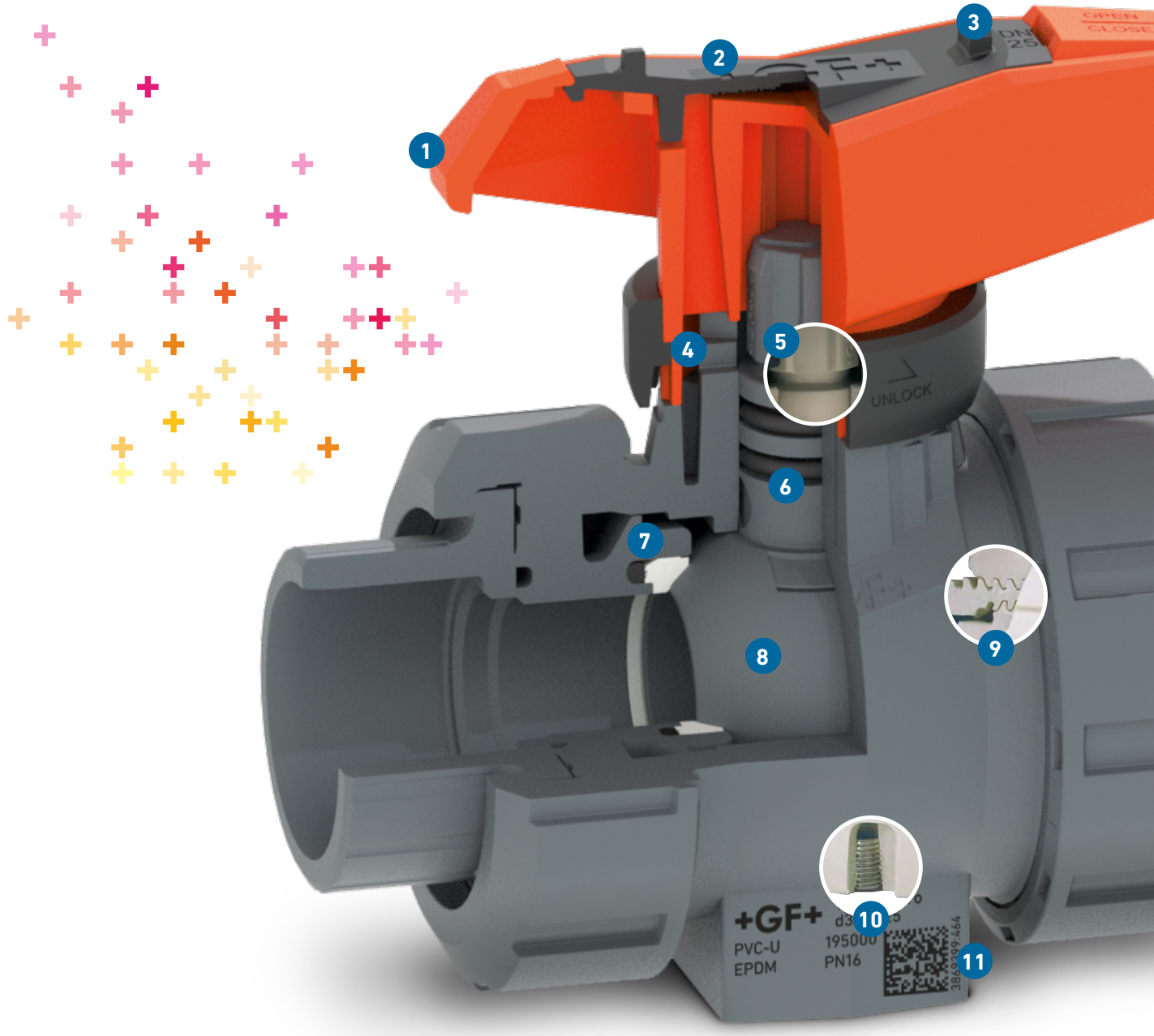
PVDF



1) For example, ball valve with threaded socket EPDM gasket up to max. 100 °C

The proven original improved once again

As the successor to the proven original, the Ball Valve 546 Pro has been improved in many ways. A reinforced security break point in the stem interface prevents leaks due to wear or excessive force. Two integrated sealing rings in the stem interface provide double safety. Therefore, the 546 Pro offers uncompromising reliability and can be flexibly expanded with optional accessories. All previous quality features of the ball valve have been migrated to the new generation.





Product features

1. Ergonomic lever, lockable as standard
2. Quick-Label on request
3. Integrated tool for the union bush
4. Interface for flexible automation and accessories
5. Reinforced security break point in the stem interface
6. Double stem seals
7. Dynamic backing seal
8. Smooth spherical surface
9. Saw tooth thread suitable for plastics
10. Fastening system with integrated threaded bushes
11. Data-Matrix-Code



Ball Valve 546 Pro

Labeling

Identify the ball valves in your piping systems clear and easy with the GF Ball Valve Labeling.
Whether to comply with standards or for more clarity – you decide how to label your ball valves.
Order the appropriate lever clip and print sheets now.

Benefits

- Increased safety for piping system and operator by labeling according to standards
- Improved e˜ ciency of operation and maintenance
- Customised system identification

Specifications

- For GF Ball Valve Types 546 Pro, 523, 543 und 547
- Lever clip material: SAN
- Print sheet DIN A4: Polymer foil

Product features

- UV-, weather- and chemical resistant
- Can be labeled with laser printers or by hand

Transparent lever clips

Delivered in packs of 10 or 5 depending on the dimension.

Dimension [DN]	Dimension [inch]	Code	Quantity
DN10/15	″⁄‟ – ½‟	198 807 221	10 pc's
DN20/25	¾‟ – 1‟	198 807 222	10 pc's
DN32/40	1 ¼‟ – 1 ½‟	198 807 223	5 pc's
DN50	2‟	198 807 224	5 pc's

Perforated print sheets for lever

Print sheets are available in two di¸ erent packaging sizes.

Dimension [DN]	Dimension [inch]	Code	Quantity
		198 807 231	25 sheets with 48 labels
DN10/15	″⁄‟ – 1/2‟	198 807 241	100 sheets with 48 labels
		198 807 232	25 sheets with 24 labels
DN20/25	¾‟ – 1‟	198 807 242	100 sheets with 24 labels
		198 807 233	25 sheets with 18 labels
DN32/40	1 ¼‟ – 1 ½‟	198 807 243	100 sheets with 18 labels
		198 807 234	25 sheets with 11 labels
DN50	2‟	198 807 244	100 sheets with 11 labels

Perforated print sheets for interface modul

Dimension [DN]	Dimension [inch]	Code	Quantity
DN 10 – 50	″⁄‟ – 2‟	198 807 230	25 Sheets with 81 labels

Get your individual label in just three steps

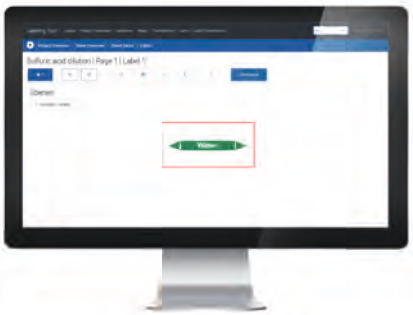
Tag your ball valve with a logo, function, medium or flow direction.

Step 1

Design your personalized label

- Visit our labeling tool online: **http://labeling.gfpstools.com**
- Customize the label according to your requirements
- In addition, flow-arrows and hazard symbols can be easily downloaded to design the labels

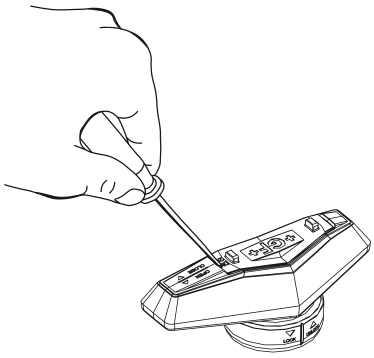
http://labeling.gfpstools.com



Step 2

Print your label

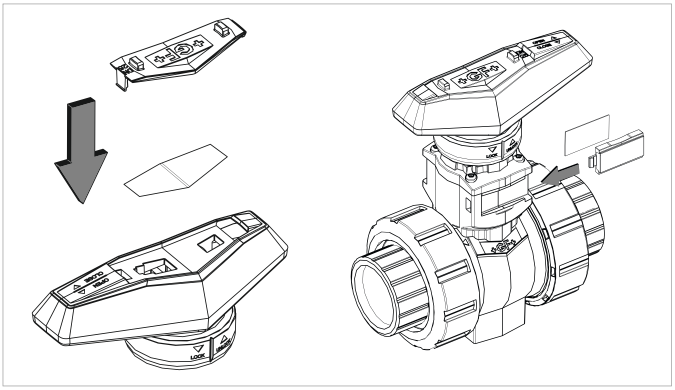
- Insert the print sheet according to the manufacturers description
- Print sheets can only be printed with laser printers
- Print sheets cannot be used a second time
- Can be labeled by hand as well

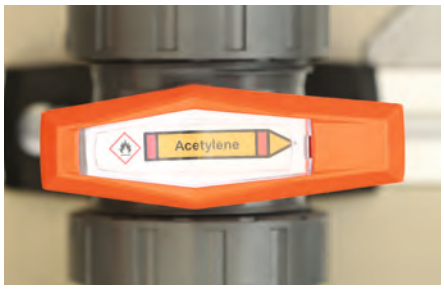


Step 3

Insert the label

- Detach labels from the print sheet
- Remove the back lever clip from the ball valve lever (see illustration)
- Insert the label in the cavity
- Install the transparent clip on the lever



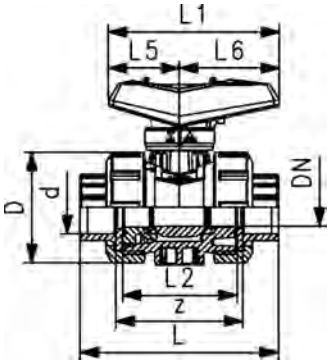


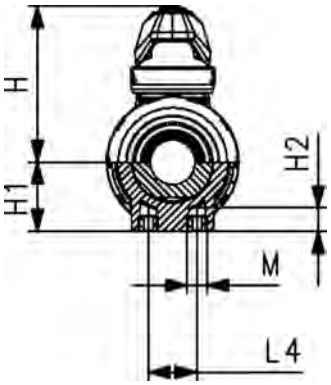


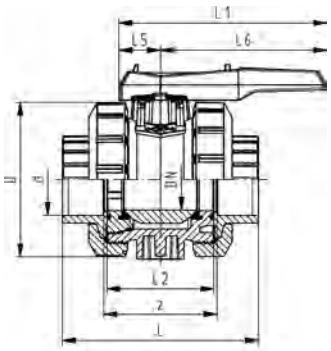


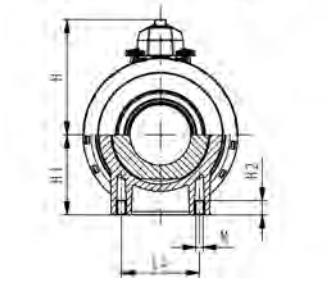












PROGEF Standard
Ball valve type 546 Pro
With fusion sockets metric

Model:

- Material: PP-H
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

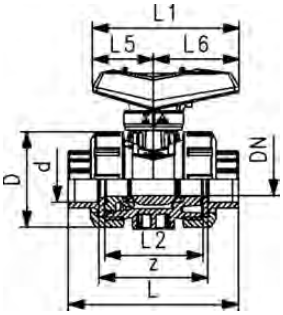
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

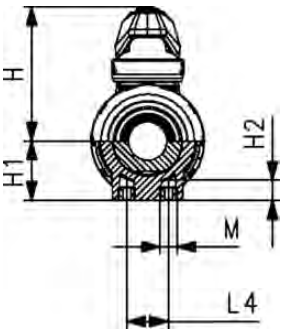
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	71	**167 546 401**	0.119	**167 546 411**	0.115
20	15	10	185	**167 546 402**	0.120	**167 546 412**	0.123
25	20	10	350	**167 546 403**	0.188	**167 546 413**	0.184
32	25	10	700	**167 546 404**	0.256	**167 546 414**	0.258
40	32	10	1000	**167 546 405**	0.444	**167 546 415**	0.451
50	40	10	1600	**167 546 406**	0.608	**167 546 416**	0.617
63	50	10	3100	**167 546 407**	1.108	**167 546 417**	1.130
75	65	10	5000	**167 546 408**	3.322	**167 546 418**	3.335
90	80	10	7000	**167 546 409**	4.701	**167 546 419**	5.500
110	100	10	11000	**167 546 410**	7.276	**167 546 420**	8.700

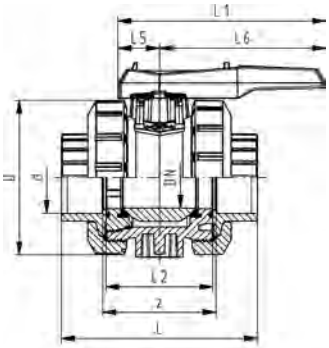
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
16	50	61	27	12	93	82	56	25	35	47	M6	67
20	50	61	27	12	95	82	56	25	35	47	M6	67
25	58	74	30	12	108	106	65	25	44	62	M6	76
32	68	80	36	12	118	106	71	25	44	62	M6	82
40	84	95	44	15	137	131	85	45	57	74	M8	97
50	97	102	51	15	147	131	89	45	57	74	M8	101
63	124	117	64	15	168	152	101	45	66	86	M8	114
75	166	150	85	15	233	270	136	70	64	206	M8	171
90	200	161	105	15	253	270	141	70	64	206	M8	183
110	238	178	123	22	293	320	164	120	64	256	M12	211

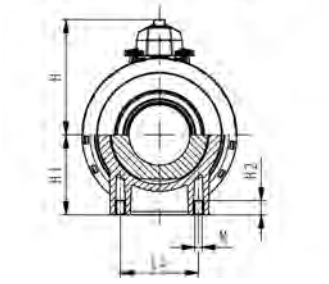












Ball valve type 546 Pro ABS
With solvent cement sockets metric

Model:

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

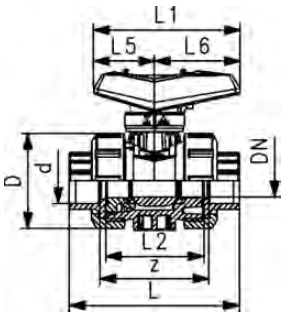
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

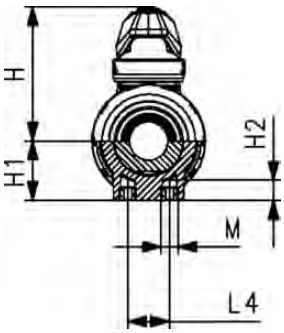
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	10	71	**169 546 061**	1	0.112
20	15	10	185	**169 546 062**	1	0.114
25	20	10	350	**169 546 063**	1	0.188
32	25	10	700	**169 546 064**	1	0.272
40	32	10	1000	**169 546 065**	1	0.481
50	40	10	1600	**169 546 066**	1	0.657
63	50	10	3100	**169 546 067**	1	1.200
75	65	10	5000	**169 546 068**	1	3.463
90	80	10	7000	**169 546 069**	1	5.700
110	100	10	11000	**169 546 070**	1	6.985

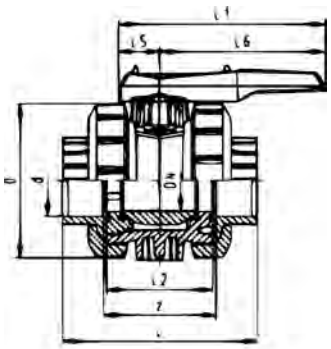
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	closest inch (inch)
16	50	61	27	12	92	82	56	25	35	47	M6	68	⅜
20	50	61	27	12	95	82	56	25	35	47	M6	67	½
25	58	74	30	12	110	106	65	25	44	62	M6	76	¾
32	68	80	36	12	123	106	71	25	44	62	M6	82	1
40	84	95	44	15	146	131	85	45	57	74	M8	98	1 ¼
50	97	102	51	15	157	131	89	45	57	74	M8	99	1 ½
63	124	117	64	15	183	152	101	45	66	86	M8	111	2
75	166	150	85	15	233	270	136	70	64	206	M8	148	2 ½
90	200	161	105	15	255	270	141	70	64	206	M8	156	3
110	238	178	123	22	301	320	164	120	64	256	M12	178	4

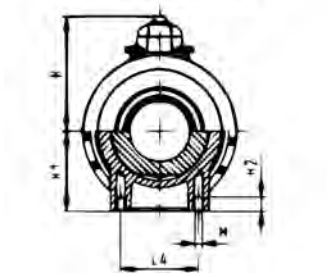












Ball valve type 546 Pro PVC-U
With solvent cement sockets metric

Model:

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

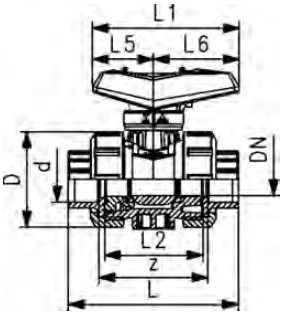
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

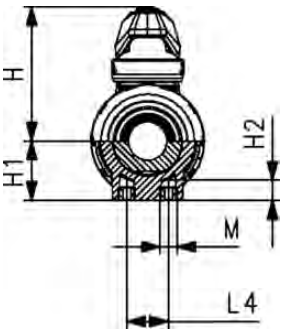
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	⅜	10	16	71	**161 546 061**	1	0.153	**161 546 071**	1	0.156
20	½	15	16	185	**161 546 062**	1	0.156	**161 546 072**	1	0.158
25	¾	20	16	350	**161 546 063**	1	0.240	**161 546 073**	1	0.242
32	1	25	16	700	**161 546 064**	1	0.343	**161 546 074**	1	0.345
40	1 ¼	32	16	1000	**161 546 065**	1	0.610	**161 546 075**	1	0.615
50	1 ½	40	16	1600	**161 546 066**	1	0.838	**161 546 076**	1	0.844
63	2	50	16	3100	**161 546 067**	1	1.537	**161 546 077**	1	1.552
75	2 ½	65	16	5000	**161 546 068**	1	4.343	**161 546 078**	1	3.563
90	3	80	16	7000	**161 546 069**	1	6.184	**161 546 079**	1	5.376
110	4	100	16	11000	**161 546 070**	1	8.642	**161 546 080**	1	11.600

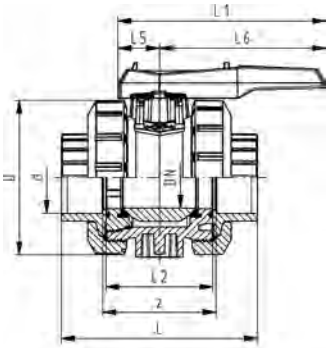
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
16	50	61	27	12	92	82	56	25	35	47	M6	68
20	50	61	27	12	95	82	56	25	35	47	M6	67
25	58	74	30	12	110	106	65	25	44	62	M6	76
32	68	80	36	12	123	106	71	25	44	62	M6	82
40	84	95	44	15	146	131	85	45	57	74	M8	98
50	97	102	51	15	157	131	89	45	57	74	M8	99
63	124	117	64	15	183	152	101	45	66	86	M8	111
75	166	150	85	15	233	270	136	70	64	206	M8	148
90	200	161	105	15	255	270	141	70	64	206	M8	156
110	238	178	123	22	301	320	164	120	64	256	M12	178

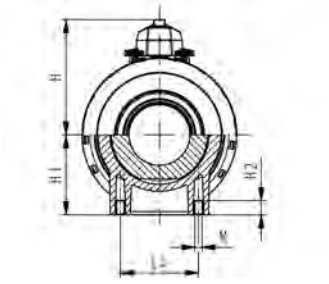












Ball valve type 546 Pro PVC-C
With solvent cement sockets metric

Model:

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible
- Multifunctional module with integrated limit switches (DN65-100)

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	16	71	**163 546 061**	1	0.160	**163 546 071**	1	0.160
20	15	16	185	**163 546 062**	1	0.169	**163 546 072**	1	0.160
25	20	16	350	**163 546 063**	1	0.255	**163 546 073**	1	0.245
32	25	16	700	**163 546 064**	1	0.370	**163 546 074**	1	0.373
40	32	16	1000	**163 546 065**	1	0.648	**163 546 075**	1	0.658
50	40	16	1600	**163 546 066**	1	0.894	**163 546 076**	1	0.890
63	50	16	3100	**163 546 067**	1	1.653	**163 546 077**	1	1.662
75	65	16	5000	**163 546 068**	1	3.552	**163 546 078**	1	4.122
90	80	16	7000	**163 546 069**	1	6.646	**163 546 079**	1	6.698
110	100	16	11000	**163 546 070**	1	9.697	**163 546 080**	1	12.700

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	closest inch (inch)
16	50	61	27	12	92	82	56	25	35	47	M6	68	⅜
20	50	61	27	12	95	82	56	25	35	47	M6	67	½
25	58	74	30	12	110	106	65	25	44	62	M6	76	¾
32	68	80	36	12	123	106	71	25	44	62	M6	82	1
40	84	95	44	15	146	131	85	45	57	74	M8	98	1 ¼
50	97	102	51	15	157	131	89	45	57	74	M8	99	1 ½
63	124	117	64	15	183	152	101	45	66	86	M8	111	2
75	166	150	85	15	233	270	136	70	64	206	M8	148	2 ½
90	200	161	105	15	255	270	141	70	64	206	M8	156	3
110	238	178	123	22	301	320	164	120	64	256	M12	178	4



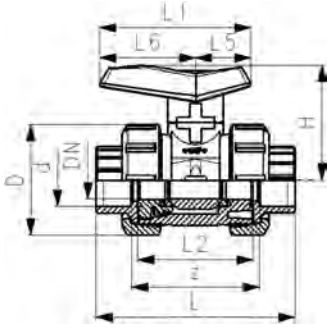
Ball valve type 542 PVC-U
With cemented socket (metric)

Model:

- For easy installation and removal
- Ball seals PTFE/ red lever

Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible



Size (inch)	d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
⅜	16	10	16	71	**161 542 001**	1	0.148	**161 542 011**	1	0.148
½	20	15	16	185	**161 542 002**	1	0.150	**161 542 012**	1	0.150
¾	25	20	16	350	**161 542 003**	1	0.233	**161 542 013**	1	0.233
1	32	25	16	700	**161 542 004**	1	0.336	**161 542 014**	1	0.336
1 ¼	40	32	16	1000	**161 542 005**	1	0.600	**161 542 015**	1	0.600
1 ½	50	40	16	1600	**161 542 006**	1	0.830	**161 542 016**	1	0.830
2	63	50	16	3100	**161 542 007**	1	1.523	**161 542 017**	1	1.523

D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
50	54	92	72	56	26	46	64
50	54	95	72	56	26	46	63
58	66	110	93	65	34	59	73
68	71	124	93	71	34	59	79
84	85	147	110	85	41	69	94
97	92	157	110	89	41	69	95
124	108	184	128	101	49	79	108



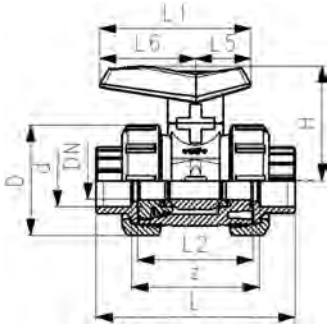
Ball valve type 542 PVC-C
With cemented socket (metric)

Model:

- For easy installation and removal
- Ball seals PTFE/ red lever

Option:

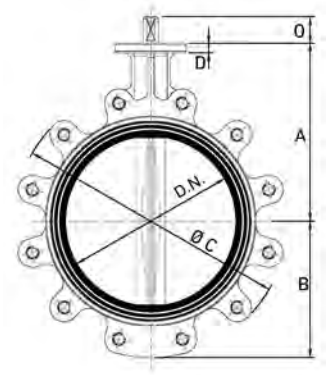
- Individual configuration of the valve possible
- Assembling of a valve tag possible



Size (inch)	d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
⅜	16	10	16	71	**163 542 001**	1	0.160	**163 542 011**	1	0.160
½	20	15	16	185	**163 542 002**	1	0.163	**163 542 012**	1	0.163
¾	25	20	16	350	**163 542 003**	1	0.252	**163 542 013**	1	0.252
1	32	25	16	700	**163 542 004**	1	0.362	**163 542 014**	1	0.362
1 ¼	40	32	16	1000	**163 542 005**	1	0.638	**163 542 015**	1	0.638
1 ½	50	40	16	1600	**163 542 006**	1	0.891	**163 542 016**	1	0.891
2	63	50	16	3100	**163 542 007**	1	1.644	**163 542 017**	1	1.644

D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
50	54	92	72	56	26	46	64
50	54	95	72	56	26	46	63
58	66	110	93	65	34	59	73
68	71	124	93	71	34	59	79
84	85	147	110	85	41	69	94
97	92	157	110	89	41	69	95
124	108	184	128	101	49	79	108





Metal - butterfly valve type 038 ANSI
Bare shaft Disc: stainless steel

Model:

- Lug Style
- Body GGG40 (A 395 / A395 M-99, EN-JIS 1020 EN1563) Rilsan® coating
- Body from DN350 Epoxy® coating
- Installation length: EN 558 row 20
- Interface according to DIN EN ISO 5211
- Pressure range: 16 bar (DN 50-300); 10 bar (DN 350-600)
- Single-piece axis with square profile, up to DN 600 mm 2-pieces axis
- Multiple flange connection: DIN PN 6/10/16; other standard e.g. ANSI/ASME B16.5 Class 150 on request

Option:

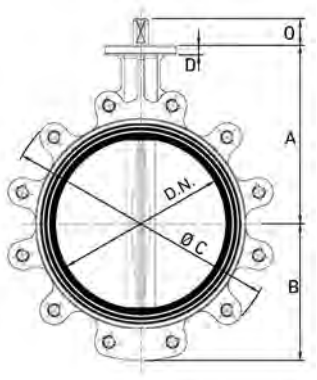
- Other liner material on request
- Electric and pneumatic actuator on request

d (mm)	DN (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	PN (bar)	Liner: EPDM Code	SP	Weight (kg)	Liner: FKM Code
63	50	2	3140	10	**199 038 943**	1	3.20	**199 038 966**
75	65	2 ½	4570	10	**199 038 944**	1	4.30	**199 038 967**
90	80	3	7140	10	**199 038 945**	1	6.00	**199 038 968**
110	100	4	11710	10	**199 038 946**	1	8.00	**199 038 969**
140	125	5	18570	10	**199 038 947**	1	9.80	**199 038 970**
160	150	6	27130	10	**199 038 948**	1	11.50	**199 038 971**
225	200	8	47130	10	**199 038 949**	1	18.30	**199 038 972**
280	250	10	77110	10	**199 038 950**	1	31.50	**199 038 973**
315	300	12	114240	10	**199 038 951**	1	48.30	**199 038 974**
355	350	14	143360	10	**199 038 952**	1	57.60	
400	400	16	186700	10	**199 038 953**	1	93.10	
450	450	18	258390	10	**199 038 954**	1	114.40	
500	500	20	316730	10	**199 038 955**	1	158.30	
630	630	24	431750	10	**199 038 956**	1	278.00	

d (mm)	DN (mm)	Size (inch)	D3 (mm)	D4 (mm)	D5 (mm)	D6 (mm)	H (mm)	H1 (mm)	H2 (mm)	SW (mm)	AL		Cv value (Δp=1 psi) (l/min)	L (mm)
63	50	2	9	14	90	70	229	13	26	11	4	F-07	220	43
75	65	2 ½	9	14	90	70	251	13	26	11	4	F-07	320	46
90	80	3	9	14	90	70	266	13	26	11	4	F-07	500	46
110	100	4	9	18	90	70	305	16	30	14	4	F-07	820	52
140	125	5	9	18	90	70	333	16	30	14	4	F-07	1300	56
160	150	6	9	22	90	70	358	17	33	17	4	F-07	1900	56
225	200	8	9	22	90	70	427	17	33	17	4	F-07	3330	60
280	250	10	11	28	125	102	525	17	47	22	4	F-10	5400	68
315	300	12	11	28	125	102	603	17	47	22	4	F-10	8000	78
355	350	14	17		150	125	576	22	55				10000	
400	400	16	17		175	140	643	24	65				13000	
450	450	18	17		175	140	738	24	65				18100	
500	500	20	17		175	140	782	24	65				22200	
630	630	24	17		300	254	980	40	110				30200	

d (mm)	DN (mm)	Size (inch)	Q (mm)
63	50	2	32
75	65	2 ½	51
90	80	3	69
110	100	4	89
140	125	5	115
160	150	6	143
225	200	8	194
280	250	10	243
315	300	12	293
355	350	14	

table continued on the next page



d (mm)	DN (mm)	Size (inch)	Q (mm)
400	400	16	
450	450	18	
500	500	20	
630	630	24	



Transparent lever clip for ball valve labelling

Option:

- Component for ball valve Type 546, 543, 523, 547
- Material: SAN
- UV-, weather- and chemical resistant
- Allows valve marking in conjunction with perforated printing sheets
- Perforated printing sheets are not included (depending on dimension see 198 807 231 - 198 807 234)

Inch (inch)	d-d (mm)	DN-DN (mm)	Code	Quantity
⅜ - ½	16 - 20	10 - 15	**198 807 221**	10 pc's
¾ - 1	25 - 32	20 - 25	**198 807 222**	10 pc's
1 ¼ - 1 ½	40 - 50	32 - 40	**198 807 223**	5 pc's
2	63	50	**198 807 224**	5 pc's



Printing sheets for ball valve labelling

Option:

- Component for ball valve Type 546, 543, 523, 547
- Material: DIN A4 Polymer-sheet
- UV-, weather- and chemical resistant
- Allows valve marking in conjunction with transparent lever clip
- Can be labelled with laser printers or by hand
- Transparent lever clip is not included (depending on dimension see 198 807 221 - 198 807 224)

Inch (inch)	d-d (mm)	DN-DN (mm)	Code	Quantity
⅜ - ½	16 - 20	10 - 15	**198 807 231**	25 Sheets with each 48 Labels
¾ - 1	25 - 32	20 - 25	**198 807 232**	25 Sheets with each 24 Labels
1 ¼ - 1 ½	40 - 50	32 - 40	**198 807 233**	25 Sheets with each 18 Labels
2	63	50	**198 807 234**	25 Sheets with each 11 Labels
⅜ - ½	16 - 20	10 - 15	**198 807 241**	100 Sheets with each 48 Labels
¾ - 1	25 - 32	20 - 25	**198 807 242**	100 Sheets with each 24 Labels
1 ¼ - 1 ½	40 - 50	32 - 40	**198 807 243**	100 Sheets with each 18 Labels
2	63	50	**198 807 244**	100 Sheets with each 11 Labels

Butterfly valve, hand-operated

Butterfly valve type 567/578

			
Type 567 Standard for wafer style installation	**Type 567** For fine adjustment	**Type 567** Manual reduction gear	**Type 578** For lug style and wafer style installation

Product description

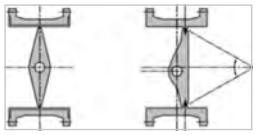
Butterfly valves of types 567 and 578 are corrosion -resistant and reliable control and shut-off valves that can be used in most applications in industrial water treatment, the chemical process industry, chemical trade, galvanization and in power plants. The valves are intended for wafer style and lug style applications. They are compact, varied and reliable. The valve is modular in design, allowing individual system parts to be exchanged at any time.

Function

Butterfly valves of types 567 and 578 have a double-eccentric mode of action and are of modular construction.

Double eccentric operating principle

The disc does not touch the seal in the open position. The disc can be quickly unscrewed from the gasket, ensuring low wear and tear. Pressure surges in the direction of flow can be absorbed more readily.



Use as a process and control valve

The butterfly valves can be equipped with corresponding pneumatic or electrical actuators and used as process and regulating valves. With extensive accessories, such as the integrated electrical position indicator. This enables direct feedback of the axis position in the valve head flange by means of limit switches and thereby an exact determination of the position of the valve disc.

Benefits/features

Type 567

- High corrosion resistance: all components that come into contact with media are made of plastic
- Low wear and tear: up to 50 % lower operation torque than centric valves
- Leak-tightness within and without: double, internal axis gasket on both sides
- On standard versions, the lever is in increments of 5 degrees

Type 578

- Use as lugged valve with threaded bushes integrated into the housing
- Lower weight than metallic butterfly valves due to use of fiberglass-reinforced plastic as housing material
- High corrosion resistance: all components that come into contact with media are made of plastic
- Low wear and tear: up to 50 % lower actuating torque than centric valves
- Leak-tightness within and without: double, internal axis gasket on both sides

Flow media

- Very well suited for liquid media
- Suited for gaseous media
- Conditionally suited for media containing solids
- Conditionally suited for viscous media

Applications

- Industrial water treatment
- Seawater desalinization
- Swimming pools
- Aquariums/oceanariums
- Chemical process industry
- Surface engineering
- Power plant construction

Valve handling

Installation notes

Differentiation between and use of the types concerned

- Use butterfly valve type 567 only as a wafer style valve.
- Use butterfly valve type 578 as either a wafer style or a lug style valve.

As a connecting piece, GF Piping Systems recommends valve ends or flange adapters with smooth jointing faces, together with flanges made of PVC-U, PP-V, PP/steel or UP-GF. In the case of BB/VSB with a fluted jointing face, a flat gasket may also be used in individual cases.

Requirements for installation

Ensure that the following conditions are satisfied prior to installation:

- Make sure that the butterfly valves to be installed correspond specifically to the pressure rating, type of connection, dimension and materials of the particular application.
- Perform a function test. To do this, close and re-open the butterfly valve.
- Only install butterfly valves that function without problems.

Maintenance notes

In normal operation, butterfly valves do not require maintenance. It is nonetheless recommended to perform maintenance on butterfly valves after 5,000 actuation cycles at most. The following steps must be taken when doing so:

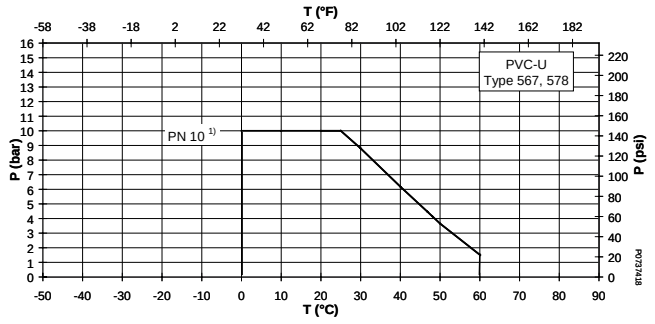
- Regularly check that no medium escapes to the outside. If medium exits from the flange connections, tighten them.
- We recommend operating the butterfly valves that are kept permanently in the same position 1 or 2 x a year to check their functionality.
- Depending on the operating conditions, the collars should be lubricated periodically with (silicon-based) grease.
- It is recommended that you check and, if necessary, replace the O-rings when removing the bearing bushings.

Pressure-temperature diagrams

The following pressure-temperature diagrams are based on a lifetime of 25 years and water or similar media.

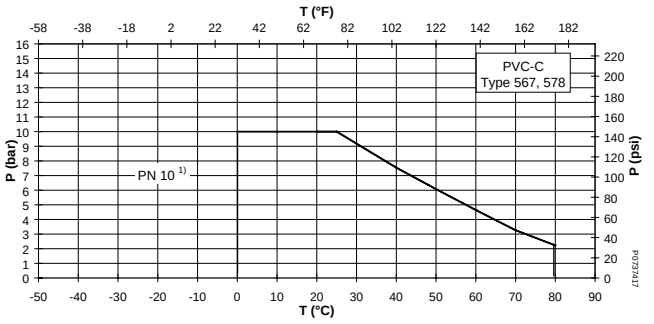
T Temperature (°C, °F)
P Permissible pressure (bar, psi)

PVC-U (DN50 – DN300)



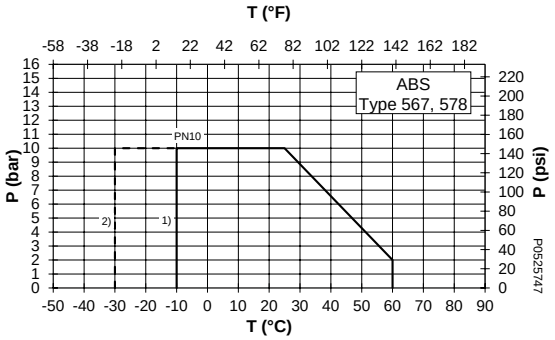
1) DN50 – DN300

PVC-C (DN50 – DN300)



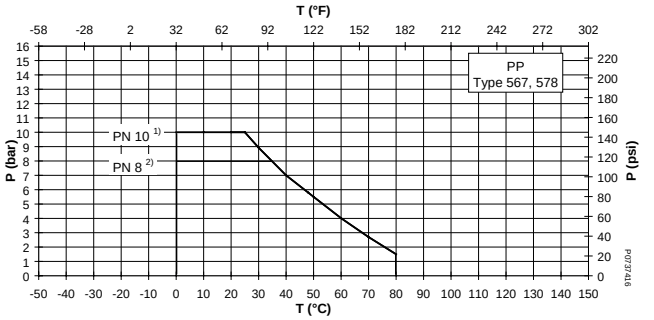
1) DN50 – DN300

ABS (DN50 – DN300)



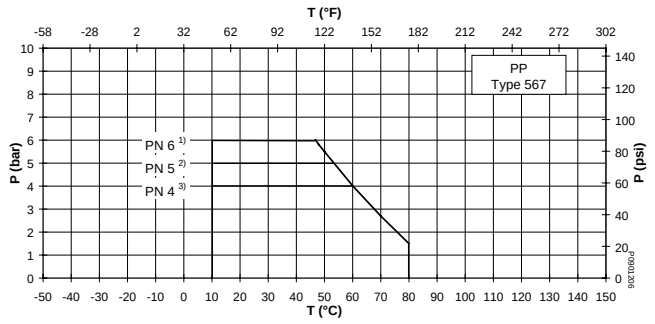
1) with standard type 567/578
2) - with PE flange adapter: only with COOL-FIT version of type 567
- with ABS flange adapter: with standard type 567/578 in installation direction A-B, or with COOL-FIT version of type 567

PP (DN50 – DN300)



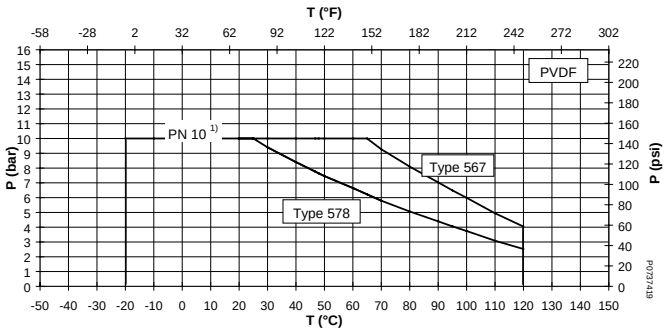
1) DN50 – DN200
2) DN250 – DN300

PP (DN350 – DN600)



1) DN350 – DN400
2) DN450
3) DN500 – DN600

PVDF (DN50 – DN300)



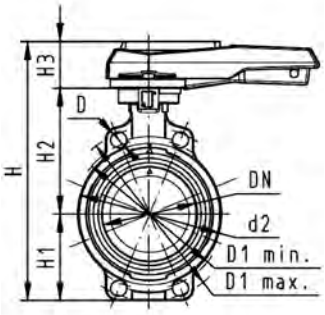
1) DN50 – DN300



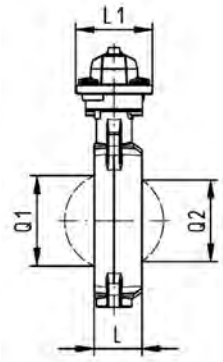
PROGEF Standard
Butterfly valve type 567
Hand lever with ratchet settings

Model:

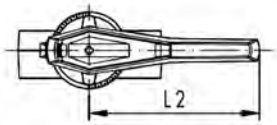
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	1470	**167 567 002**	1.170	**167 567 022**	1.627
75	2 ½	65	10	2200	**167 567 003**	1.254	**167 567 023**	1.061
90	3	80	10	3000	**167 567 004**	1.384	**167 567 024**	1.404
110	4	100	10	6500	**167 567 005**	1.961	**167 567 025**	1.998
140	5	125	10	11500	**167 567 006**	2.367	**167 567 026**	2.429
160	6	150	10	16600	**167 567 007**	3.741	**167 567 027**	3.246
225	8	200	10	39600	**167 567 008**	5.545	**167 567 028**	5.609
280	10	250	8	55200	**167 567 009**	11.061	**167 567 029**	11.841
315	12	300	8	80000	**167 567 010**	16.548	**167 567 030**	13.245



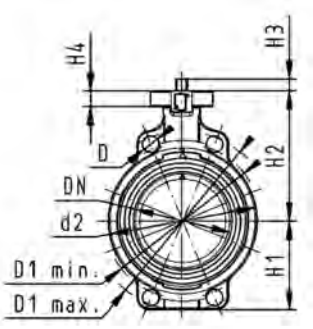
d (mm)	PTFE Code	Weight (kg)
63	**167 567 202**	1.170
75	**167 567 203**	1.254
90	**167 567 204**	1.384
110	**167 567 205**	1.961
140	**167 567 206**	2.367
160	**167 567 207**	3.741
225	**167 567 208**	5.545
280	**167 567 209**	11.061
315	**167 567 210**	16.548

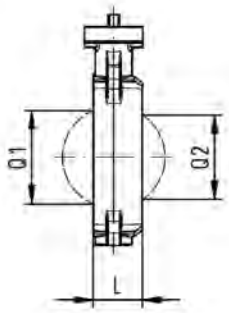


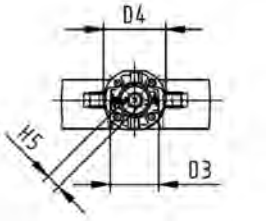
d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	Q1 (mm)	Q2 (mm)
63	104	19	120	125	264	77	134	54	45	106	205	40	
75	115	19	140	145	277	83	140	54	46	106	205	54	35
90	131	19	150	160	289	89	146	54	49	106	205	67	50
110	161	19	175	191	325	104	167	55	56	106	255	88	74
140	187	23	210	216	352	117	181	55	64	106	255	113	97
160	215	24	241	241	373	130	189	55	72	106	255	139	123
225	267	23	290	295	435	158	210	67	73	140	408	178	169
280	329	25	353	362	554	205	264	85	113	149	408	210	207
315	379	25	400	432	598	228	285	85	113	149	408	256	253













PROGEF Standard
Butterfly valve type 567
Bare shaft

Model:

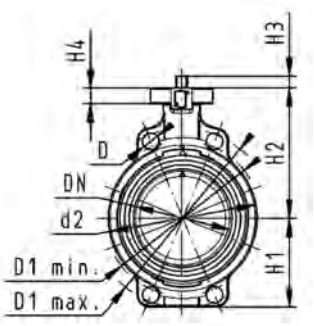
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211
- Interface F12 for the dimensions DN350-400 according to DIN/ISO 5211
- Interface F14 for the dimensions DN450-600 according to DIN/ISO 5211

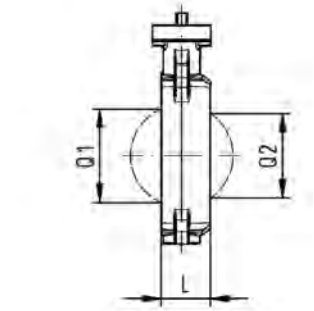
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	1470	**167 567 802**	1	0.699	**167 567 822**	1	0.721
75	2 ½	65	10	2200	**167 567 803**	1	0.793	**167 567 823**	1	0.804
90	3	80	10	3000	**167 567 804**	1	0.913	**167 567 824**	1	0.939
110	4	100	10	6500	**167 567 805**	1	1.409	**167 567 825**	1	1.450
140	5	125	10	11500	**167 567 806**	1	1.831	**167 567 826**	1	1.929
160	6	150	10	16600	**167 567 807**	1	2.641	**167 567 827**	1	2.713
225	8	200	10	39600	**167 567 808**	1	4.110	**167 567 828**	1	4.186
280	10	250	8	51000	**167 567 809**	1	9.412	**167 567 829**	1	10.251
315	12	300	8	73000	**167 567 810**	1	13.054	**167 567 830**	1	13.251
355	14	350	6	90000	**167 567 811**	1	35.000	**167 567 831**	1	35.000
400	16	400	6	115000	**167 567 812**	1	45.000	**167 567 832**	1	45.000
450	18	450	5	155000	**167 567 813**	1	60.000	**167 567 833**	1	60.000
500	20	500	4	204000	**167 567 814**	1	75.000	**167 567 834**	1	75.000
630	24	600	4	265000	**167 567 815**	1	110.000	**167 567 835**	1	110.000

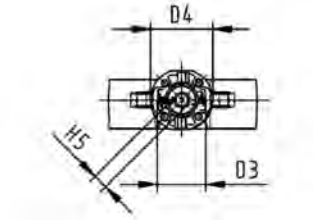
d (mm)	PTFE Code	Weight (kg)
63	**167 567 840**	0.699
75	**167 567 841**	0.793
90	**167 567 842**	0.913
110	**167 567 843**	1.409
140	**167 567 844**	1.831
160	**167 567 845**	2.641
225	**167 567 846**	4.110
280	**167 567 847**	9.412
315	**167 567 848**	13.054
355	**167 567 849**	35.000
400	**167 567 850**	45.000
450	**167 567 851**	60.000
500	**167 567 852**	75.000
630	**167 567 853**	110.000

d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	D3 (mm)	D4 (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	Q1 (mm)	Q2 (mm)
63	104	19	120	125	70	90	77	134	27	23	11	45	40	
75	115	19	140	145	70	90	83	140	27	23	11	46	54	35
90	131	19	150	160	70	90	89	146	27	23	11	49	67	50
110	161	19	175	191	70	90	104	167	16	23	14	56	88	74
140	187	23	210	216	70	90	117	181	16	23	14	64	113	97
160	215	24	241	241	70	90	130	189	19	23	17	72	139	123
225	267	23	290	295	70	90	158	210	19	23	17	73	178	169
280	329	25	353	362	102	125	205	264	40	23	22	113	210	207
315	379	25	400	432	102	125	228	285	40	23	22	113	256	253
355	535	29	445	477	125	180	268	410	31	100	22	129	325	305

table continued on the next page



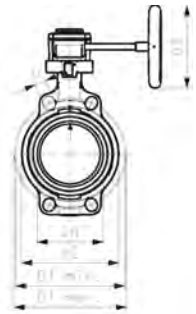


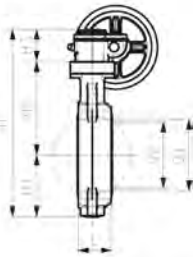


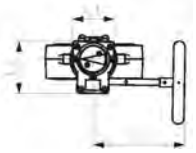


d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	D3 (mm)	D4 (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	Q1 (mm)	Q2 (mm)
400	595	29	510	540	125	180	300	435	31	100	27	169	353	350
450	635	32	565	578	140	220	320	520	35	120	27	179	393	390
500	700	32	620	635	140	220	350	550	35	120	36	190	444	440
630	813	35	725	750	140	220	420	610	35	120	36	209	530	527









PROGEF Standard
Butterfly valve type 567
Reduction gear with handwheel

Model:

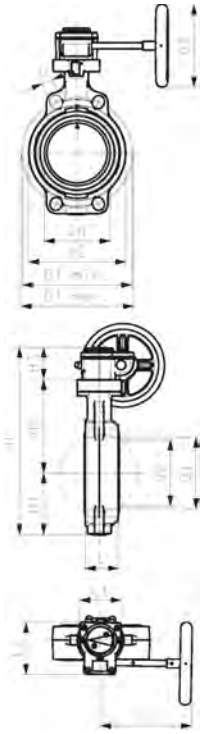
- Material: PP-H, DN350-DN600 material PP-R
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	1470	**167 567 042**	1	3.003	**167 567 062**	1	3.007
75	2 ½	65	10	2200	**167 567 043**	1	2.781	**167 567 063**	1	3.099
90	3	80	10	3000	**167 567 044**	1	3.301	**167 567 064**	1	3.229
110	4	100	10	6500	**167 567 045**	1	3.736	**167 567 065**	1	3.741
140	5	125	10	11500	**167 567 046**	1	2.770	**167 567 066**	1	4.243
160	6	150	10	16600	**167 567 047**	1	4.969	**167 567 067**	1	5.038
225	8	200	10	39600	**167 567 048**	1	8.538	**167 567 068**	1	6.539
280	10	250	8	51000	**167 567 049**	1	12.884	**167 567 069**	1	13.074
315	12	300	8	73000	**167 567 050**	1	16.442	**167 567 070**	1	16.066
355	14	350	6	90000	**167 567 051**	1	40.000	**167 567 071**	1	40.000
400	16	400	6	115000	**167 567 052**	1	50.000	**167 567 072**	1	50.000
450	18	450	5	155000	**167 567 053**	1	70.000	**167 567 073**	1	70.000
500	20	500	4	204000	**167 567 054**	1	90.000	**167 567 074**	1	90.000
630	24	600	4	265000	**167 567 055**	1	125.000	**167 567 075**	1	125.000

d (mm)	PTFE Code	Weight (kg)
63	**167 567 242**	3.003
75	**167 567 243**	2.781
90	**167 567 244**	3.301
110	**167 567 245**	3.736
140	**167 567 246**	2.770
160	**167 567 247**	4.969
225	**167 567 248**	8.538
280	**167 567 249**	12.884
315	**167 567 250**	16.442
355	**167 567 251**	40.000
400	**167 567 252**	50.000
450	**167 567 253**	70.000
500	**167 567 254**	90.000
630	**167 567 255**	125.000

d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Q1 (mm)
63	104	19	120	125	160	273	77	134	62	45	78	112	179	40
75	115	19	140	145	160	285	83	140	62	46	78	112	179	54
90	131	19	150	160	160	297	89	146	62	49	78	112	179	67
110	160	19	175	191	160	333	104	167	62	56	78	112	179	88
140	187	23	210	216	160	360	117	181	62	64	78	112	179	113
160	215	24	241	241	160	381	130	189	62	72	78	112	179	139
225	267	23	290	295	160	430	158	210	62	73	78	112	179	178
280	329	25	353	362	200	555	205	264	69	113	97	130	198	210
315	379	25	400	432	200	599	228	285	69	113	97	130	198	256
355	535	29	445	477	200		268	410	69	129	180	168	218	325
400	595	29	510	540	200		300	435	69	169	180	195	218	353
450	635	32	565	578	250		320	520	81	179	220	195	240	393
500	700	32	620	635	350		350	550	94	190	220	226	260	444
630	813	35	725	750	350		420	610	94	209	220	260	260	530

table continued on the next page



d (mm)	Q2 (mm)
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253
355	305
400	350
450	390
500	440
630	527



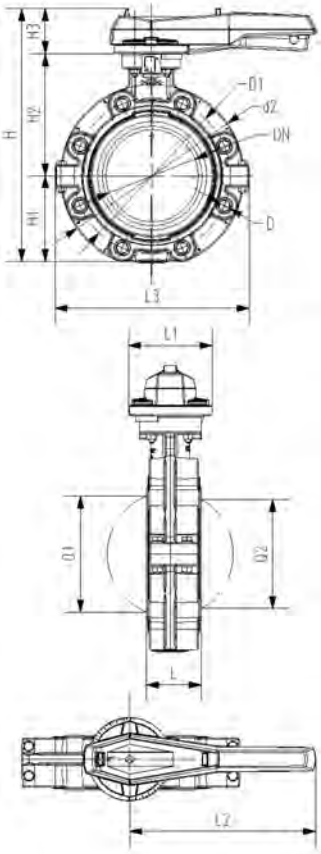
PROGEF Standard
Lugstyle butterfly valve type 578
Hand lever with ratchet settings

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

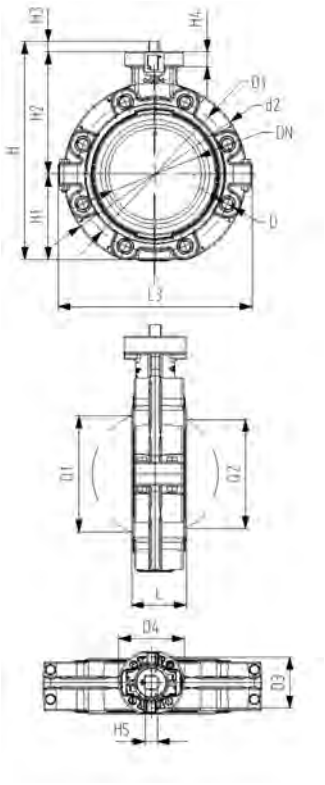
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	1470	**167 578 002**	1.800	**167 578 022**	1.800
75	2 ½	65	10	2200	**167 578 003**	1.895	**167 578 023**	1.895
90	3	80	10	3000	**167 578 004**	2.251	**167 578 024**	2.251
110	4	100	10	6500	**167 578 005**	3.146	**167 578 025**	3.146
140	5	125	10	11500	**167 578 006**	4.660	**167 578 026**	4.660
160	6	150	10	16600	**167 578 007**	6.430	**167 578 027**	6.430
225	8	200	10	39600	**167 578 008**	8.625	**167 578 028**	8.625
280	10	250	8	55200	**167 578 009**	19.528	**167 578 029**	19.528
315	12	300	8	80000	**167 578 010**	26.106	**167 578 030**	26.106

d (mm)	d2 (mm)	D	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Q1 (mm)	Q2 (mm)
63	160	M16	125	265	77	134	54	45	106	205	150	40	
75	180	M16	145	277	83	140	54	46	106	205	182	54	35
90	195	M16	160	289	89	146	54	49	106	205	210	67	50
110	226	M16	180	328	106	167	55	56	106	255	240	88	74
140	258	M16	210	357	121	181	55	64	106	255	272	113	97
160	284	M20	240	377	133	189	55	72	106	255	297	139	123
225	341	M20	295	436	159	210	67	73	140	408	360	178	169
280	412	M20	350	536	205	264	67	113	140	408	440	210	207
315	482	M20	400	586	234	285	67	113	140	408	510	256	253





PROGEF Standard
Lugstyle butterfly valve type 578
Bare shaft

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

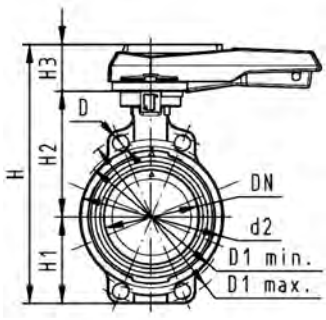
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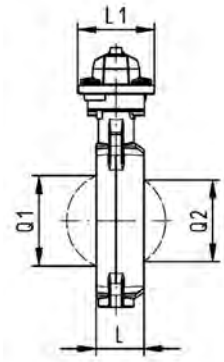
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

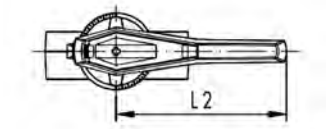
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	1470	**167 578 802**	1	1.299	**167 578 822**	1	1.299
75	2 ½	65	10	2200	**167 578 803**	1	1.456	**167 578 823**	1	1.456
90	3	80	10	3000	**167 578 804**	1	1.701	**167 578 824**	1	1.701
110	4	100	10	6500	**167 578 805**	1	2.606	**167 578 825**	1	2.606
140	5	125	10	11500	**167 578 806**	1	4.120	**167 578 826**	1	4.120
160	6	150	10	16600	**167 578 807**	1	5.881	**167 578 827**	1	5.881
225	8	200	10	39600	**167 578 808**	1	7.125	**167 578 828**	1	7.125
280	10	250	8	55200	**167 578 809**	1	17.880	**167 578 829**	1	17.880
315	12	300	8	80000	**167 578 810**	1	24.416	**167 578 830**	1	24.416

d (mm)	d2 (mm)	D	D1 (mm)	D3 (mm)	D4 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	Q1 (mm)	Q2 (mm)
63	160	M16	125	70	90	238	77	134	27	23	11	45	40	
75	180	M16	145	70	90	250	83	140	27	23	11	46	54	35
90	195	M16	160	70	90	262	89	146	27	23	11	49	67	50
110	226	M16	180	70	90	289	106	167	16	23	14	56	88	74
140	258	M16	210	70	90	318	121	181	16	23	14	64	113	97
160	284	M20	240	70	90	341	133	189	19	23	17	72	139	123
225	341	M20	295	70	90	388	159	210	19	23	17	73	178	169
280	412	M20	350	102	125	509	205	264	40	23	22	113	210	207
315	482	M20	400	102	125	559	234	285	40	23	22	113	256	253









Butterfly valve type 567 ABS
Hand lever with ratchet settings

Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)
63	50	10	1470	**169 567 002**	1	1.187
75	65	10	2200	**169 567 003**	1	1.282
90	80	10	3000	**169 567 004**	1	1.420
110	100	10	6500	**169 567 005**	1	2.020
140	125	10	11500	**169 567 006**	1	2.536
160	150	10	16600	**169 567 007**	1	3.337
225	200	10	39600	**169 567 008**	1	5.808
280	250	10	55200	**169 567 009**	1	14.328
315	300	10	80000	**169 567 010**	1	18.899

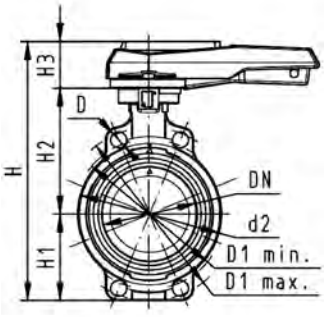
d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	Q1 (mm)	Q2 (mm)	closest inch (inch)
63	104	19	120.0	125.0	265	77	134	54	45	106	205	40		2
75	115	19	139.7	145.0	277	83	140	54	46	106	205	54	35	2 ½
90	131	19	150.0	160.0	289	89	146	54	49	106	205	67	50	3
110	161	19	175.0	190.5	326	104	167	55	56	106	255	88	74	4
140	187	23	210.0	215.9	353	117	181	55	64	106	255	113	97	5
160	215	24	241.3	241.3	374	130	189	55	72	106	255	139	123	6
225	267	23	290.0	295.0	435	158	210	67	73	140	408	178	169	8
280	329	25	353.0	362.0	554	205	264	85	113	149	408	210	207	10
315	379	25	400.0	432.0	598	228	285	85	113	149	408	256	253	12



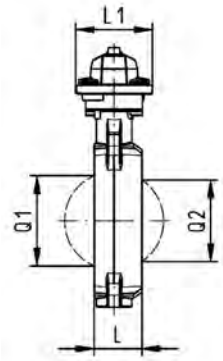
Butterfly valve type 567 PVC-U
Hand lever with ratchet settings

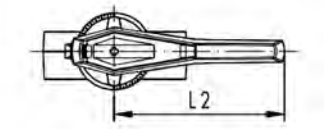
Model:

- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version



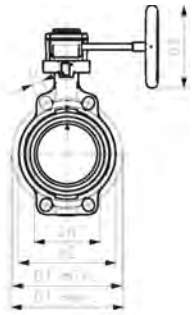
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code	Weight (kg)
63	2	50	10	1470	**161 567 002**	**161 567 022**	1.259
75	2 ½	65	10	2200	**161 567 003**	**161 567 023**	1.799
90	3	80	10	3000	**161 567 004**	**161 567 024**	1.534
110	4	100	10	6500	**161 567 005**	**161 567 025**	2.235
140	5	125	10	11500	**161 567 006**	**161 567 026**	2.799
160	6	150	10	16600	**161 567 007**	**161 567 027**	3.791
225	8	200	10	39600	**161 567 008**	**161 567 028**	6.570
280	10	250	10	55200	**161 567 009**	**161 567 029**	12.998
315	12	300	10	80000	**161 567 010**	**161 567 030**	19.139

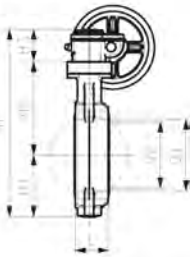


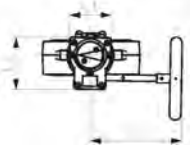


d (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	d2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	Q1 (mm)	Q2 (mm)
63	19	120.0	125.0	104	265	77	134	54	45	106	205	40	35
75	19	139.7	145.0	115	268	83	140	45	46	106	205	54	
90	19	150.0	160.0	131	289	89	146	54	49	106	205	67	50
110	19	175.0	190.5	161	326	104	167	55	56	106	255	88	74
140	23	210.0	215.9	187	353	117	181	55	64	106	255	113	97
160	24	241.3	241.3	215	374	130	189	55	72	106	255	139	123
225	23	290.0	295.0	267	435	158	210	67	73	140	408	178	169
280	25	353.0	362.0	329	554	205	264	85	113	149	408	210	207
315	25	400.0	432.0	379	598	228	285	85	113	149	408	256	253









Butterfly valve type 567 PVC-U
Reduction gear with handwheel

Model:

- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

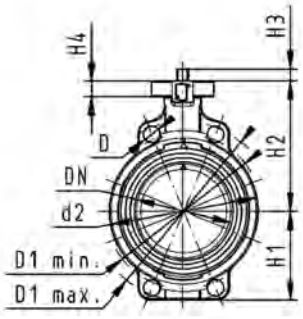
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	1470	**161 567 042**	1	3.078	**161 567 062**	1	3.082
75	2 ½	65	10	2200	**161 567 043**	1	3.181	**161 567 063**	1	3.186
90	3	80	10	3000	**161 567 044**	1	3.346	**161 567 064**	1	3.353
110	4	100	10	6500	**161 567 045**	1	4.022	**161 567 065**	1	3.973
140	5	125	10	11500	**161 567 046**	1	4.185	**161 567 066**	1	4.544
160	6	150	10	16600	**161 567 047**	1	5.174	**161 567 067**	1	5.181
225	8	200	10	39600	**161 567 048**	1	7.072	**161 567 068**	1	8.339
280	10	250	10	51000	**161 567 049**	1	14.741	**161 567 069**	1	15.115
315	12	300	10	73000	**161 567 050**	1	19.254	**161 567 070**	1	35.000

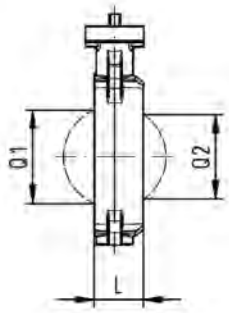
d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Q1 (mm)
63	104	19	120	125	160	273	77	134	62	45	78	112	179	40
75	115	19	140	145	160	285	83	140	62	46	78	112	179	54
90	131	19	150	160	160	297	89	146	62	49	78	112	179	67
110	160	19	175	191	160	333	104	167	62	56	78	112	179	88
140	187	23	210	216	160	360	117	181	62	64	78	112	179	113
160	215	24	241	241	160	381	130	189	62	72	78	112	179	139
225	267	23	290	295	160	430	158	210	62	73	78	112	179	178
280	329	25	353	362	200	538	205	264	69	113	97	130	198	210
315	379	25	400	432	200	582	228	285	69	113	97	130	198	256

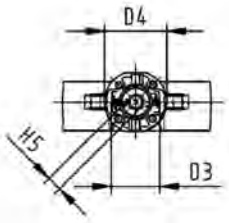
d (mm)	Q2 (mm)
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253













Butterfly valve type 567 PVC-U
Bare shaft

Model:

- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211
- Interface F12 for the dimensions DN350-400 according to DIN/ISO 5211

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	1470	**161 567 802**	1	0.778	**161 567 822**	1	0.787
75	2 ½	65	10	2200	**161 567 803**	1	0.921	**161 567 823**	1	0.895
90	3	80	10	3000	**161 567 804**	1	1.052	**161 567 824**	1	1.068
110	4	100	10	6500	**161 567 805**	1	1.641	**161 567 825**	1	2.092
140	5	125	10	11500	**161 567 806**	1	2.266	**161 567 826**	1	2.236
160	6	150	10	16600	**161 567 807**	1	3.179	**161 567 827**	1	3.238
225	8	200	10	39600	**161 567 808**	1	5.063	**161 567 828**	1	5.127
280	10	250	10	51000	**161 567 809**	1	11.588	**161 567 829**	1	11.735
315	12	300	10	73000	**161 567 810**	1	16.050	**161 567 830**	1	15.936

d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	D3 (mm)	D4 (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	Q1 (mm)	Q2 (mm)
63	104	19	120	125	70	90	77	134	27	23	11	45	40	
75	115	19	140	145	70	90	83	140	27	23	11	46	54	35
90	131	19	150	160	70	90	89	146	27	23	11	49	67	50
110	161	19	175	191	70	90	104	167	16	23	14	56	88	74
140	187	23	210	216	70	90	117	181	16	23	14	64	113	97
160	215	24	241	241	70	90	130	189	19	23	17	72	139	123
225	267	23	290	295	70	90	158	210	19	23	17	73	178	169
280	329	25	353	362	102	125	205	264	40	23	22	113	210	207
315	379	25	400	432	102	125	228	285	40	23	22	113	256	253



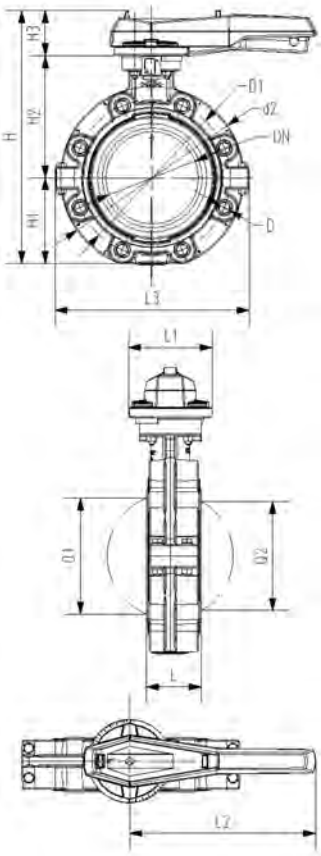
Lugstyle butterfly valve type 578 PVC-U
Hand lever with ratchet settings

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

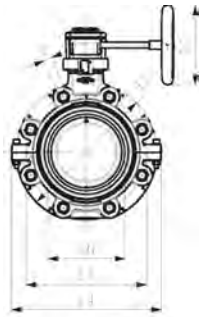
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

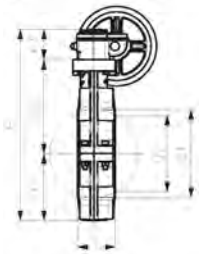


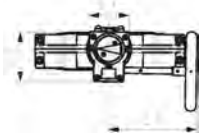
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	1470	**161 578 002**	1.800	**161 578 022**	1.800
75	2 ½	65	10	2200	**161 578 003**	1.895	**161 578 023**	1.895
90	3	80	10	3000	**161 578 004**	2.251	**161 578 024**	2.251
110	4	100	10	6500	**161 578 005**	3.146	**161 578 025**	3.146
140	5	125	10	11500	**161 578 006**	4.660	**161 578 026**	4.660
160	6	150	10	16600	**161 578 007**	6.430	**161 578 027**	6.430
225	8	200	10	39600	**161 578 008**	8.625	**161 578 028**	8.625
280	10	250	10	55200	**161 578 009**	19.528	**161 578 029**	19.528
315	12	300	10	80000	**161 578 010**	26.106	**161 578 030**	26.106

d (mm)	d2 (mm)	D	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Q1 (mm)	Q2 (mm)
63	160	M16	125	27	265	77	134	62	45	78	112	179	40	
75	180	M16	145	27	277	83	140	62	46	78	112	179	54	35
90	195	M16	160	27	289	89	146	62	49	78	112	179	67	50
110	226	M16	180	27	328	106	167	62	56	78	112	179	88	74
140	258	M16	210	27	357	121	181	62	64	78	112	179	113	97
160	284	M20	240	27	377	133	189	62	72	78	112	179	139	123
225	341	M20	295	27	436	159	210	62	73	78	112	179	178	169
280	412	M20	350	200	536	205	264	69	113	97	130	198	210	207
315	482	M20	400	200	586	234	285	69	113	97	130	198	256	253









Lugstyle butterfly valve type 578 PVC-U
Reduction gear with handwheel

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	1470	**161 578 042**	1	3.522	**161 578 062**	1	3.522
75	2 ½	65	10	2200	**161 578 043**	1	3.672	**161 578 063**	1	3.672
90	3	80	10	3000	**161 578 044**	1	3.929	**161 578 064**	1	3.929
110	4	100	10	6500	**161 578 045**	1	4.834	**161 578 065**	1	4.834
140	5	125	10	11500	**161 578 046**	1	6.348	**161 578 066**	1	6.348
160	6	150	10	16600	**161 578 047**	1	8.109	**161 578 067**	1	8.109
225	8	200	10	39600	**161 578 048**	1	9.353	**161 578 068**	1	9.353
280	10	250	10	55200	**161 578 049**	1	21.210	**161 578 069**	1	21.210
315	12	300	10	80000	**161 578 050**	1	27.746	**161 578 070**	1	27.746

d (mm)	d2 (mm)	D	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	Q1 (mm)	Q2 (mm)
63	160	M16	125	160	273	77	134	62	45	78	112	179	165	40	
75	180	M16	145	160	285	83	140	62	46	78	112	179	182	54	35
90	195	M16	160	160	297	89	146	62	49	78	112	179	210	67	50
110	226	M16	180	160	335	106	167	62	56	78	112	179	240	88	74
140	258	M16	210	160	364	121	181	62	64	78	112	179	272	113	97
160	284	M20	240	160	384	133	189	62	72	78	112	179	300	139	123
225	341	M20	295	160	431	159	210	62	73	78	112	179	360	178	169
280	412	M20	350	200	538	205	264	69	113	97	130	198	440	210	207
315	482	M20	400	200	588	234	285	69	113	97	130	198	510	256	253



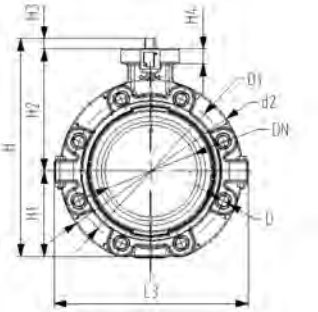
Lugstyle butterfly valve type 578 PVC-U
Bare shaft

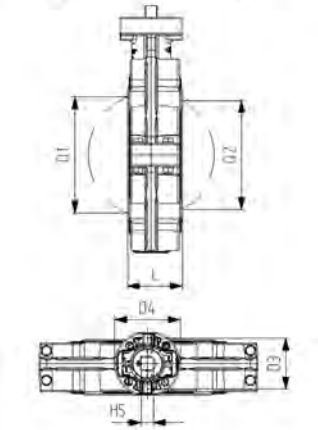
Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)





d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	1470	**161 578 802**	1	1.299	**161 578 822**	1	1.299
75	2 ½	65	10	2200	**161 578 803**	1	1.456	**161 578 823**	1	1.456
90	3	80	10	3000	**161 578 804**	1	1.701	**161 578 824**	1	1.701
110	4	100	10	6500	**161 578 805**	1	2.606	**161 578 825**	1	2.606
140	5	125	10	11500	**161 578 806**	1	4.120	**161 578 826**	1	4.120
160	6	150	10	16600	**161 578 807**	1	5.881	**161 578 827**	1	5.881
225	8	200	10	39600	**161 578 808**	1	7.125	**161 578 828**	1	7.125
280	10	250	10	55200	**161 578 809**	1	17.880	**161 578 829**	1	17.880
315	12	300	10	80000	**161 578 810**	1	24.416	**161 578 830**	1	24.416

d (mm)	d2 (mm)	D	D1 (mm)	D3 (mm)	D4 (mm)	H5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	L (mm)	Q1 (mm)	Q2 (mm)
63	160	M16	125	70	90	11	273	77	134	27	23	45	40	
75	180	M16	145	70	90	11	285	83	140	27	23	46	54	35
90	195	M16	160	70	90	11	297	89	146	27	23	49	67	50
110	226	M16	180	70	90	14	335	106	167	16	23	56	88	74
140	258	M16	210	70	90	14	364	121	181	16	23	64	113	97
160	284	M20	240	70	90	17	384	133	189	19	23	72	139	123
225	341	M20	295	70	90	17	431	159	210	19	23	73	178	169
280	412	M20	350	200	125	22	555	205	264	86	23	113	210	207
315	482	M20	400	200	125	22	605	234	285	86	23	113	256	253



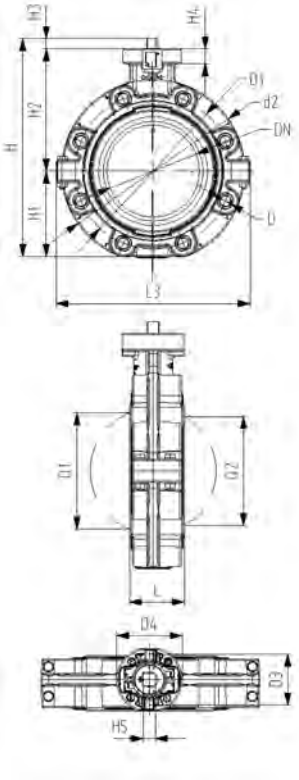
Lugstyle butterfly valve type 578 PVC-C
Bare shaft

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	1470	**163 578 802**	1	1.299	**163 578 822**	1	1.299
75	2 ½	65	10	2200	**163 578 803**	1	1.456	**163 578 823**	1	1.456
90	3	80	10	3000	**163 578 804**	1	1.701	**163 578 824**	1	1.701
110	4	100	10	6500	**163 578 805**	1	2.606	**163 578 825**	1	2.606
140	5	125	10	11500	**163 578 806**	1	4.120	**163 578 826**	1	4.120
160	6	150	10	16600	**163 578 807**	1	5.881	**163 578 827**	1	5.881
225	8	200	10	39600	**163 578 808**	1	7.125	**163 578 828**	1	7.125
280	10	250	10	55200	**163 578 809**	1	17.880	**163 578 829**	1	17.880
315	12	300	10	80000	**163 578 810**	1	24.416	**163 578 830**	1	24.416

d (mm)	d2 (mm)	D	D1 (mm)	D3 (mm)	D4 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	Q1 (mm)	Q2 (mm)
63	160	M16	125	70	90	238	77	134	27	23	11	45	40	
75	180	M16	145	70	90	250	83	140	27	23	11	46	54	35
90	195	M16	160	70	90	262	89	146	27	23	11	49	67	50
110	226	M16	180	70	90	289	106	167	16	23	14	56	88	74
140	258	M16	210	70	90	318	121	181	16	23	14	64	113	97
160	284	M20	240	70	90	341	133	189	19	23	17	72	139	123
225	341	M20	295	70	90	388	159	210	19	23	17	73	178	169
280	412	M20	350	102	125	509	205	264	40	23	22	113	210	207
315	482	M20	400	102	125	559	234	285	40	23	22	113	256	253

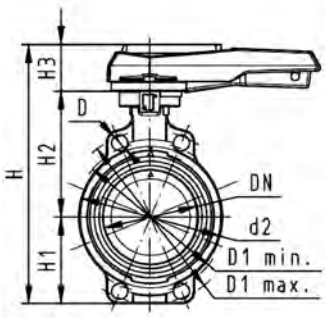


Butterfly valve type 567 PVC-C
Hand lever with ratchet settings

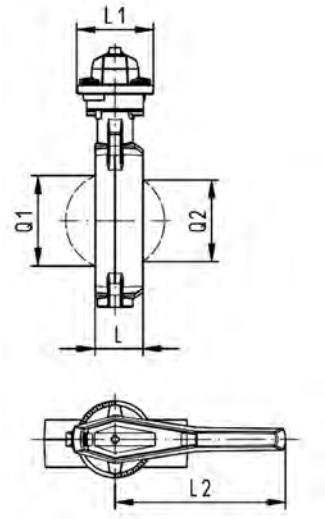
Model:

- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	1470	**163 567 002**	1	1.257	**163 567 022**	1	1.268
75	2 ½	65	10	2200	**163 567 003**	1	1.366	**163 567 023**	1	1.174
90	3	80	10	3000	**163 567 004**	1	1.542	**163 567 024**	1	1.997
110	4	100	10	6500	**163 567 005**	1	2.231	**163 567 025**	1	2.715
140	5	125	10	11500	**163 567 006**	1	2.820	**163 567 026**	1	2.536
160	6	150	10	16600	**163 567 007**	1	4.000	**163 567 027**	1	3.361
225	8	200	10	39600	**163 567 008**	1	5.873	**163 567 028**	1	6.803
280	10	250	10	55200	**163 567 009**	1	14.328	**163 567 029**	1	12.998
315	12	300	10	80000	**163 567 010**	1	18.899	**163 567 030**	1	19.139



d (mm)	PTFE Code	Weight (kg)
63	**163 567 202**	1.257
75	**163 567 203**	1.366
90	**163 567 204**	1.542
110	**163 567 205**	2.231
140	**163 567 206**	2.820
160	**163 567 207**	6.719
225	**163 567 208**	5.873
280		
315		



d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	Q1 (mm)	Q2 (mm)
63	104	19	120	125	264	77	134	54	45	106	205	40	
75	115	19	140	145	277	83	140	54	46	106	205	54	35
90	131	19	150	160	289	89	146	54	49	106	205	67	50
110	161	19	175	191	325	104	167	55	56	106	255	88	74
140	187	23	210	216	352	117	181	55	64	106	255	113	97
160	215	24	241	241	373	130	189	55	72	106	255	139	123
225	267	23	290	295	435	158	210	67	73	140	408	178	169
280	329	25	353	362	555	205	264	85	113	149	408	210	207
315	379	25	400	432	599	228	285	85	113	149	408	256	253



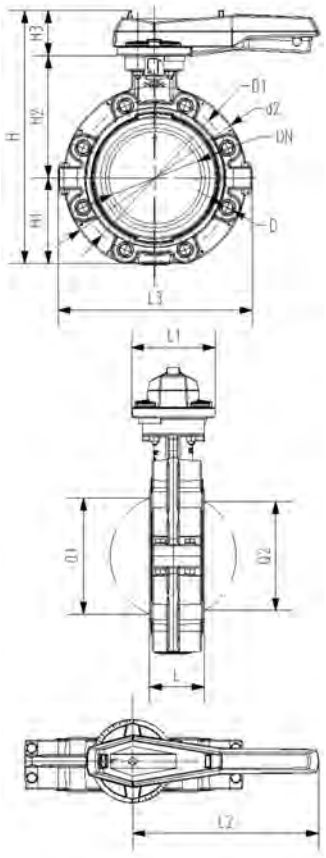
Lugstyle butterfly valve type 578 PVC-C
Hand lever with ratchet settings

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

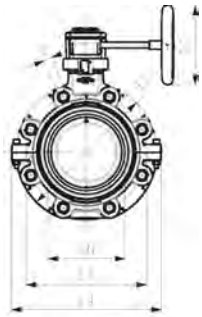
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

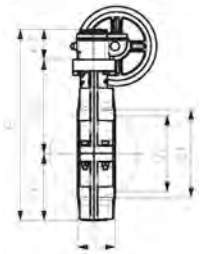


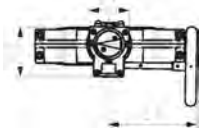
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	1470	**163 578 102**	1	1.800	**163 578 122**	1	1.800
75	2 ½	65	10	2200	**163 578 103**	1	1.895	**163 578 123**	1	1.895
90	3	80	10	3000	**163 578 104**	1	2.251	**163 578 124**	1	2.251
110	4	100	10	6500	**163 578 105**	1	3.146	**163 578 125**	1	3.146
140	5	125	10	11500	**163 578 106**	1	4.660	**163 578 126**	1	4.660
160	6	150	10	16600	**163 578 107**	1	6.430	**163 578 127**	1	6.430
225	8	200	10	39600	**163 578 108**	1	8.625	**163 578 128**	1	8.625
280	10	250	10	55200	**163 578 109**	1	19.528	**163 578 129**	1	19.528
315	12	300	10	80000	**163 578 110**	1	26.106	**163 578 130**	1	26.106

d2 (mm)	D	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Q1 (mm)	Q2 (mm)
160	UNC 5/8	120.6	265	77	134	54	45	106	205	165	40	
180	UNC 5/8	139.7	277	83	140	54	46	106	205	182	54	35
195	UNC 5/8	152.4	289	89	146	54	49	106	205	210	67	50
226	UNC 5/8	190.5	328	106	167	55	56	106	255	240	88	74
258	UNC 3/4	215.9	357	121	181	55	64	106	255	272	113	97
284	UNC 3/4	241.3	377	133	189	55	72	106	255	300	139	123
341	UNC 3/4	298.4	436	159	210	67	73	140	408	360	178	169
412	UNC 7/8	362.0	536	205	264	67	113	140	408	440	210	207
482	UNC 7/8	431.8	586	234	285	67	113	140	408	510	256	253









Lugstyle butterfly valve type 578 PVC-C
Reduction gear with handwheel

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

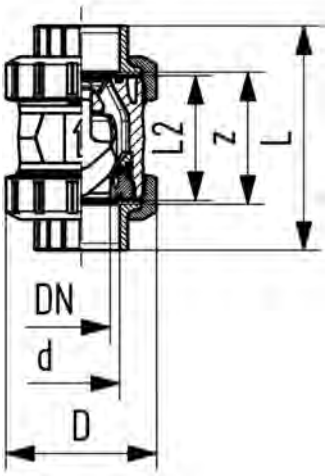
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	2	50	10	1470	**163 578 042**	1	3.535	**163 578 062**	1	3.535
75	2 ½	65	10	2200	**163 578 043**	1	3.698	**163 578 063**	1	3.698
90	3	80	10	3000	**163 578 044**	1	3.929	**163 578 064**	1	3.929
110	4	100	10	6500	**163 578 045**	1	4.834	**163 578 065**	1	4.834
140	5	125	10	11500	**163 578 046**	1	6.348	**163 578 066**	1	6.348
160	6	150	10	16600	**163 578 047**	1	8.109	**163 578 067**	1	8.109
225	8	200	10	39600	**163 578 048**	1	9.353	**163 578 068**	1	9.353
280	10	250	10	55200	**163 578 049**	1	21.210	**163 578 069**	1	21.210
315	12	300	10	80000	**163 578 050**	1	27.746	**163 578 070**	1	27.746

d (mm)	d2 (mm)	D	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	Q1 (mm)	Q2 (mm)
63	160	M16	125	160	273	77	134	62	45	78	112	179	165	40	
75	180	M16	145	150	285	83	140	62	46	78	112	179	182	54	35
90	195	M16	160	150	297	89	146	62	49	78	112	179	210	67	50
110	226	M16	180	150	335	106	167	62	56	78	112	179	240	88	74
140	258	M16	210	150	364	121	181	62	64	78	112	179	272	113	97
160	284	M20	240	160	384	133	189	62	72	78	112	179	300	139	123
225	341	M20	295	160	431	159	210	62	73	78	112	179	360	178	169
280	412	M20	350	200	555	205	264	69	113	97	130	198	440	210	207
315	482	M20	400	200	605	234	285	69	113	97	130	198	510	256	253

Cone check valves





PROGEF Standard
Check valve type 561
With fusion sockets metric

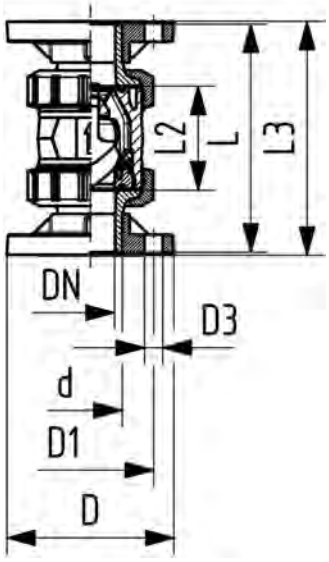
Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	10	190	**167 561 001**	1	0.080	**167 561 011**	1	0.080
20	15	10	180	**167 561 002**	1	0.083	**167 561 012**	1	0.080
25	20	10	380	**167 561 003**	1	0.128	**167 561 013**	1	0.180
32	25	10	460	**167 561 004**	1	0.200	**167 561 014**	1	0.190
40	32	10	850	**167 561 005**	1	0.332	**167 561 015**	1	0.340
50	40	10	1080	**167 561 006**	1	0.498	**167 561 016**	1	0.480
63	50	10	1670	**167 561 007**	1	0.941	**167 561 017**	1	0.974
75	65	10	2950	**167 561 008**	1	2.300	**167 561 018**	1	2.310
90	80	10	3600	**167 561 009**	1	3.560	**167 561 019**	1	3.580
110	100	10	4150	**167 561 010**	1	5.900	**167 561 020**	1	5.930

d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	93	56	67	⅜
20	50	95	56	66	½
25	58	109	65	77	¾
32	68	119	71	83	1
40	84	135	85	99	1 ¼
50	97	147	89	105	1 ½
63	124	168	101	117	2
75	166	233	136	167	2 ½
90	200	254	141	180	3
110	238	301	164	215	4





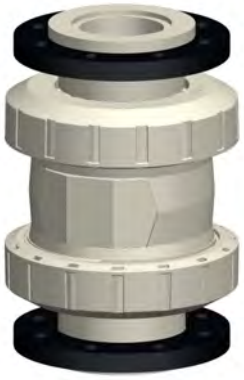
PROGEF Standard
Check valve type 561
With fixed flanges metric

Model:

- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	10	180	**167 561 182**	1	0.220	**167 561 192**	1	0.220
25	20	10	380	**167 561 183**	1	0.340	**167 561 193**	1	0.350
32	25	10	460	**167 561 184**	1	0.440	**167 561 194**	1	0.440
40	32	10	850	**167 561 185**	1	0.730	**167 561 195**	1	0.730
50	40	10	1080	**167 561 186**	1	0.970	**167 561 196**	1	0.970
63	50	10	1670	**167 561 187**	1	1.600	**167 561 197**	1	1.600

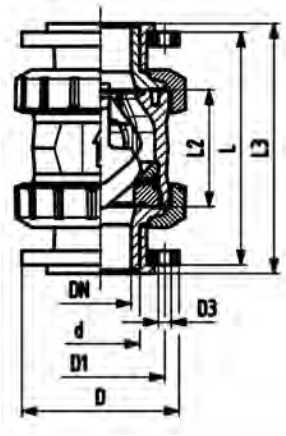
d (mm)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
20	95	65	14	120	56	130	½
25	105	75	14	140	65	150	¾
32	115	85	14	150	71	160	1
40	140	100	18	170	85	180	1 ¼
50	150	110	18	190	89	200	1 ½
63	165	125	18	220	101	230	2



PROGEF Standard
Check valve type 561
With backing flanges PP-st metric

Model:

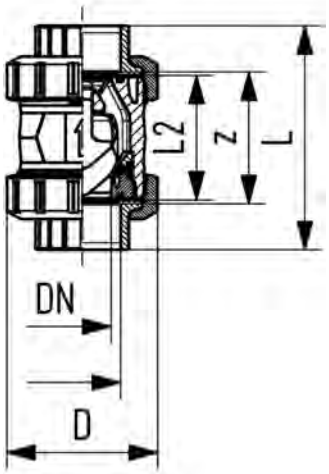
- Material: PP-H
- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	10	2950	**167 561 428**	1	4.710	**167 561 438**	1	4.720
90	80	10	3600	**167 561 429**	1	6.850	**167 561 439**	1	6.860
110	100	10	4150	**167 561 430**	1	9.280	**167 561 440**	1	9.300

d (mm)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	closest inch (inch)
75	166	145	18	149	85	280	270	136	290	70	64	206	M8	1 ¼
90	200	160	18	161	105	296	270	141	310	70	64	206	M8	1 ½
110	238	180	18	178	123	336	320	164	350	120	64	256	M12	2





PROGEF Standard
Check valve type 562
With threaded sockets reinforced Rp

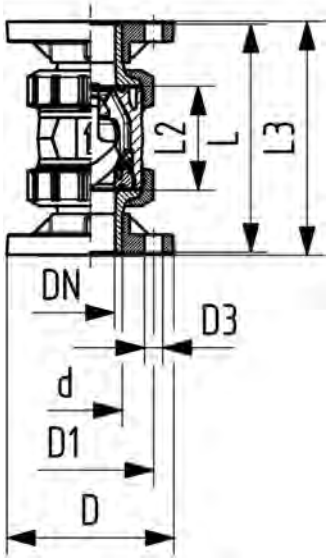
Model:

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Rp (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
⅜	10	10	190	**167 562 021**	1	0.080	**167 562 031**	1	0.080
½	15	10	180	**167 562 022**	1	0.090	**167 562 032**	1	0.090
¾	20	10	380	**167 562 023**	1	0.170	**167 562 033**	1	0.180
1	25	10	460	**167 562 024**	1	0.200	**167 562 034**	1	0.210
1 ¼	32	10	850	**167 562 025**	1	0.350	**167 562 035**	1	0.360
1 ½	40	10	1080	**167 562 026**	1	0.500	**167 562 036**	1	0.510
2	50	10	1670	**167 562 027**	1	0.920	**167 562 037**	1	0.920

Rp (inch)	D (mm)	L (mm)	L2 (mm)	z (mm)
⅜	50	96	56	69
½	50	99	56	67
¾	58	111	65	78
1	68	127	71	85
1 ¼	84	146	85	100
1 ½	97	157	89	106
2	124	183	101	121





PROGEF Standard
Check valve type 562
With fixed flanges metric

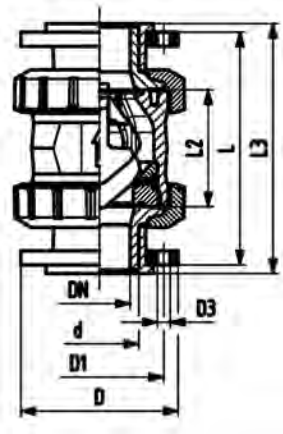
Model:

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
20	15	10	180	**167 562 182**	1	0.220	**167 562 192**	1	0.220
25	20	10	380	**167 562 183**	1	0.340	**167 562 193**	1	0.350
32	25	10	460	**167 562 184**	1	0.440	**167 562 194**	1	0.440
40	32	10	850	**167 562 185**	1	0.730	**167 562 195**	1	0.730
50	40	10	1080	**167 562 186**	1	0.970	**167 562 196**	1	0.970
63	50	10	1670	**167 562 187**	1	1.600	**167 562 197**	1	1.600

d (mm)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
20	95	65	14	120	56	130	½
25	105	75	14	140	65	150	¾
32	115	85	14	150	71	160	1
40	140	100	18	170	85	180	1 ¼
50	150	110	18	190	89	200	1 ½
63	165	125	18	220	101	230	2





PROGEF Standard
Check valve type 562
With backing flanges PP-st metric

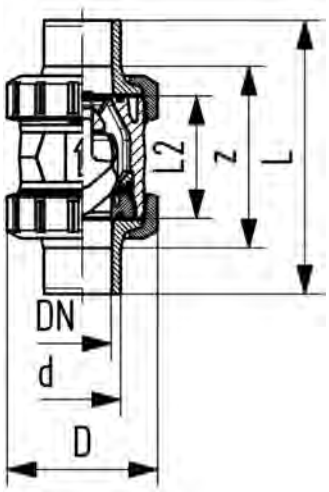
Model:

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	10	2950	**167 562 428**	1	4.710	**167 562 438**	1	4.720
90	80	10	3600	**167 562 429**	1	6.850	**167 562 439**	1	6.860
110	100	10	4150	**167 562 430**	1	9.280	**167 562 440**	1	9.300

d (mm)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	closest inch (inch)
75	166	145	18	149	85	280	270	136	290	70	64	206	M8	1 ¼
90	200	160	18	161	105	296	270	141	310	70	64	206	M8	1 ½
110	238	180	18	178	123	336	320	164	350	120	64	256	M12	2





PROGEF Standard
Check valve type 562
With butt fusion spigots
SDR17,6 metric

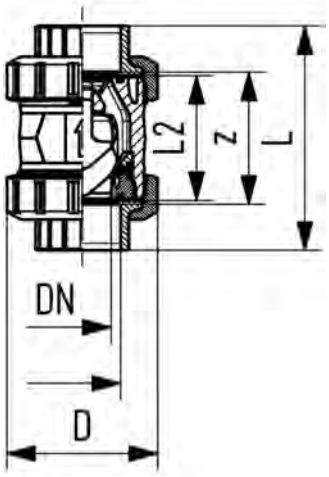
Model:

- Material: PP-H
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
50	40	10	1080	**167 562 066**	1	0.510	**167 562 076**	1	0.510
63	50	10	1670	**167 562 067**	1	0.940	**167 562 077**	1	0.940
75	65	10	2950	**167 562 068**	1	2.340	**167 562 078**	1	2.360
90	80	10	3600	**167 562 069**	1	3.650	**167 562 079**	1	3.670
110	100	10	4150	**167 562 070**	1	5.790	**167 562 080**	1	5.820

d (mm)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
50	97	191	89	2.9	1 ½
63	124	220	101	3.6	2
75	166	266	136	4.7	2 ½
90	200	264	141	5.5	3
110	238	301	164	6.8	4





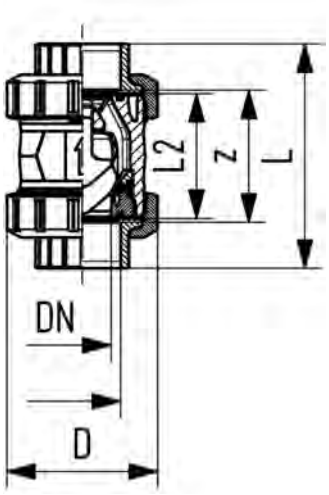
Check valve type 561 PVC-U
With threaded sockets Rp

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

Rp (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
⅜	10	10	190	**161 561 021**	1	0.130	**161 561 031**	1	0.130
½	15	10	180	**161 561 022**	1	0.130	**161 561 032**	1	0.130
¾	20	10	380	**161 561 023**	1	0.260	**161 561 033**	1	0.280
1	25	10	460	**161 561 024**	1	0.300	**161 561 034**	1	0.300
1 ¼	32	10	850	**161 561 025**	1	0.510	**161 561 035**	1	0.520
1 ½	40	10	1080	**161 561 026**	1	0.780	**161 561 036**	1	0.790
2	50	10	1670	**161 561 027**	1	1.390	**161 561 037**	1	1.400
2 ½	65	10	2950	**161 561 028**	1	3.800	**161 561 038**	1	3.820
3	80	10	3600	**161 561 029**	1	5.160	**161 561 039**	1	5.180
4	100	10	4150	**161 561 030**	1	8.140	**161 561 040**	1	8.180

table continued on the next page



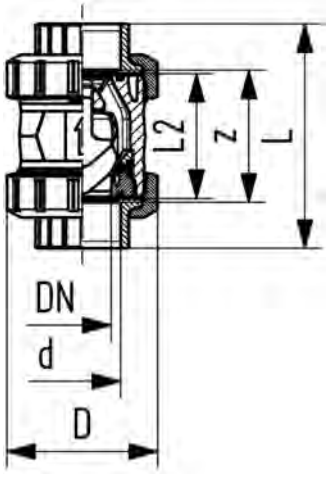
Rp (inch)	D (mm)	L (mm)	L2 (mm)	z (mm)
⅜	50	95	56	69
½	50	100	56	67
¾	58	114	65	78
1	68	127	71	85
1 ¼	84	146	85	100
1 ½	97	152	89	106
2	124	177	101	121
2 ½	166	233	136	144
3	200	254	141	151
4	238	301	164	174



Check valve type 562 PVC-U
With solvent cement sockets metric

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	16	190	**161 562 001**	1	0.120	**161 562 011**	1	0.120
20	15	16	180	**161 562 002**	1	0.130	**161 562 012**	1	0.130
25	20	16	380	**161 562 003**	1	0.250	**161 562 013**	1	0.270
32	25	16	460	**161 562 004**	1	0.290	**161 562 014**	1	0.290
40	32	16	850	**161 562 005**	1	0.510	**161 562 015**	1	0.510
50	40	16	1080	**161 562 006**	1	0.750	**161 562 016**	1	0.750
63	50	16	1670	**161 562 007**	1	1.330	**161 562 017**	1	1.340
75	65	16	2950	**161 562 008**	1	3.160	**161 562 018**	1	3.170
90	80	16	3600	**161 562 009**	1	5.040	**161 562 019**	1	5.060
110	100	16	4150	**161 562 010**	1	8.130	**161 562 020**	1	8.170

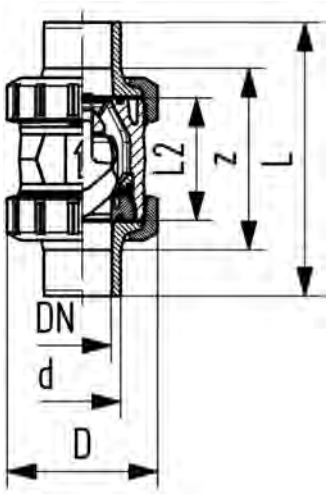
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	92	56	64	⅜
20	50	95	56	64	½
25	58	110	65	72	¾
32	68	123	71	79	1
40	84	146	85	94	1 ¼
50	97	157	89	95	1 ½
63	124	183	101	107	2
75	166	233	136	144	2 ½
90	200	254	141	151	3
110	238	301	164	174	4



Check valve type 562 PVC-U
With solvent cement spigots metric

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

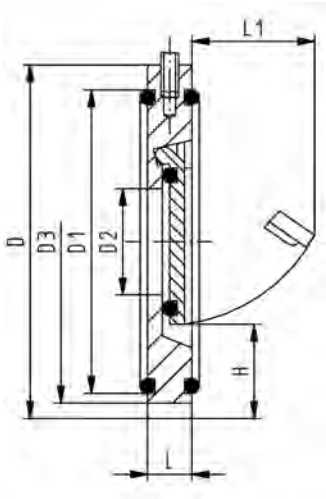


d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	16	190	**161 562 041**	1	0.130	**161 562 051**	1	0.130
20	15	16	180	**161 562 042**	1	0.130	**161 562 052**	1	0.130
25	20	16	380	**161 562 043**	1	0.270	**161 562 053**	1	0.290
32	25	16	460	**161 562 044**	1	0.320	**161 562 054**	1	0.320
40	32	16	850	**161 562 045**	1	0.530	**161 562 055**	1	0.530
50	40	16	1080	**161 562 046**	1	0.810	**161 562 056**	1	0.810
63	50	16	1670	**161 562 047**	1	1.450	**161 562 057**	1	1.450
75	65	16	2950	**161 562 048**	1	3.370	**161 562 058**	1	3.380
90	80	16	3600	**161 562 049**	1	5.320	**161 562 059**	1	5.340
110	100	16	4150	**161 562 050**	1	8.500	**161 562 060**	1	8.540

d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	114	56	⅜
20	50	124	56	½
25	58	144	65	¾
32	68	154	71	1
40	84	174	85	1 ¼
50	97	194	89	1 ½
63	124	224	101	2
75	166	284	136	2 ½
90	200	300	141	3
110	238	340	164	4

Wafer check valves





PROGEF Standard
Wafer check valve type 369
With V4A spring (stainless steel 316)

Model:

- Material: PP-H
- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

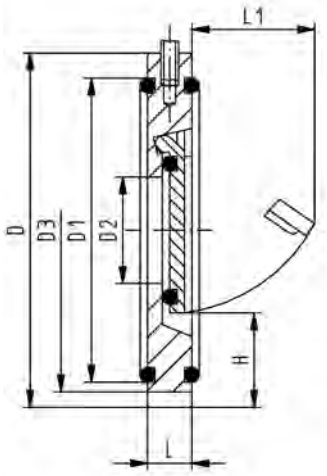
Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI flange adaptors (all except DN32 and DN125)
- Installation with ANSI flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI by D)
- It is necessary to use a special outlet flange adaptor PP or PE on the outgoing side of the wafer check valve
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed

d (mm)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
40	32	10	**167 369 042**	1	0.090	**167 369 062**	1	0.071
50	40	10	**167 369 043**	1	0.095	**167 369 063**	1	0.100
63	50	10	**167 369 044**	1	0.141	**167 369 064**	1	0.170
75	65	10	**167 369 045**	1	0.218	**167 369 065**	1	0.245
90	80	10	**167 369 046**	1	0.260	**167 369 066**	1	0.260
110	100	10	**167 369 047**	1	0.375	**167 369 067**	1	0.370
140	125	10	**167 369 049**	1	0.535	**167 369 069**	1	0.500
160	150	6	**167 369 050**	1	0.740	**167 369 070**	1	0.740
225	200	6	**167 369 051**	1	1.376	**167 369 071**	1	1.400
280	250	6	**167 369 052**	1	2.345	**167 369 072**	1	2.400
315	300	6	**167 369 053**	1	3.520	**167 369 073**	1	3.520

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	L (mm)	L1 (mm)	Opening pressure vertical (mbar)	Opening pressure horizontal (mbar)	closest inch (inch)	Minimum water column for sealing (m)
40	85	59	18	85	25	15	22	30	20	1 ¼	3
50	105	72	22	95	28	16	27	30	20	1 ½	3
63	124	86	32	109	29	18	40	30	20	2	3
75	137	105	40	129	31	20	55	30	20	2 ½	3
90	175	119	54	144	32	20	67	30	20	3	3
110	175	146	70	164	31	23	67	30	20	4	3
140	195	173	92	195	35	23	94	30	20	5	3
160	222	197	105	220	42	26	100	30	20	6	3
225	279	255	154	275	38	35	152	38	20	8	3
280	340	312	192	330	41	40	180	38	20	10	3
315	410	363	227	380	41	45	215	38	20	12	3





Wafer check valve type 369 PVC-U
With V4A spring (stainless steel 316)

Model:

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

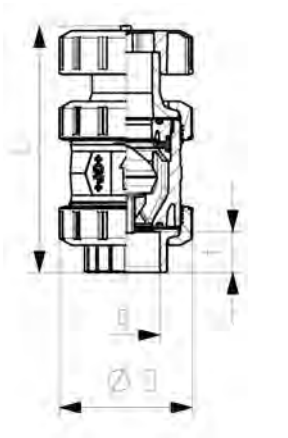
- Installation between ISO/DIN (all dimensions) and ANSI flange adaptors (all except DN32 and DN125)
- Installation with ANSI flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63

d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
40	1 ¼	32	10	**161 369 042**	1	0.130	**161 369 062**	1	0.107
50	1 ½	40	10	**161 369 043**	1	0.160	**161 369 063**	1	0.206
63	2	50	10	**161 369 044**	1	0.273	**161 369 064**	1	0.250
75	2 ½	65	10	**161 369 045**	1	0.357	**161 369 065**	1	0.320
90	3	80	10	**161 369 046**	1	0.561	**161 369 066**	1	0.390
110	4	100	10	**161 369 047**	1	0.651	**161 369 067**	1	0.684
140	5	125	10	**161 369 049**	1	0.791	**161 369 069**	1	0.750
160	6	150	6	**161 369 050**	1	1.171	**161 369 070**	1	1.100
225	8	200	6	**161 369 051**	1	2.252	**161 369 071**	1	2.100
280	10	250	6	**161 369 052**	1	3.790	**161 369 072**	1	3.500
315	12	300	6	**161 369 053**	1	6.274	**161 369 073**	1	5.300

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	L (mm)	L1 (mm)	Opening pressure vertical (mbar)	Opening pressure horizontal (mbar)	Minimum water column for sealing (m)
40	85	59	18	85	25	15	22	30	20	2
50	105	74	22	95	27	16	27	30	20	2
63	124	90	32	109	29	18	40	30	20	2
75	137	110	40	129	31	20	55	30	20	2
90	175	125	54	144	32	20	67	30	20	2
110	175	150	70	164	31	23	67	30	20	2
140	195	178	92	195	35	23	94	30	20	2
160	222	192	105	220	41	26	100	30	20	2
225	279	256	154	275	38	35	152	38	20	2
280	340	306	192	330	41	40	180	38	20	2
315	410	342	227	380	41	45	215	38	20	2

Process control valves





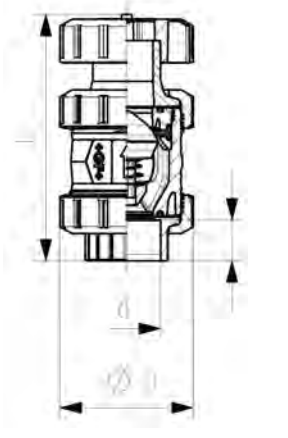
Ventilating and bleed valve
Type 591 PVC-C
With solvent cement sockets metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**163 591 001**	**163 591 011**	50	118	14	⅜
20	15	16	**163 591 002**	**163 591 012**	50	124	16	½
25	20	16	**163 591 003**	**163 591 013**	58	142	19	¾
32	25	16	**163 591 004**	**163 591 014**	68	157	22	1
40	32	16	**163 591 005**	**163 591 015**	84	179	26	1 ¼
50	40	16	**163 591 006**	**163 591 016**	97	197	31	1 ½
63	50	16	**163 591 007**	**163 591 017**	124	229	38	2
75	65	16	**163 591 008**	**163 591 018**	166	258	45	2 ½
90	80	16	**163 591 009**	**163 591 019**	200	277	52	3
110	100	16	**163 591 010**	**163 591 020**	238	320	64	4





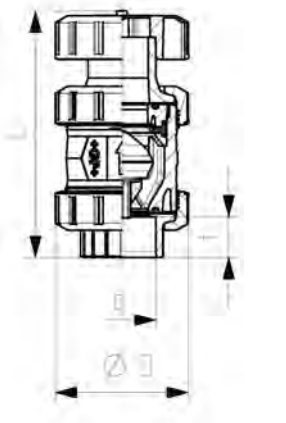
Ventilating valve type 595 PVC-C
With solvent cement sockets metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**163 595 001**	**163 595 011**	50	118	14	⅜
20	15	16	**163 595 002**	**163 595 012**	50	124	16	½
25	20	16	**163 595 003**	**163 595 013**	58	142	19	¾
32	25	16	**163 595 004**	**163 595 014**	68	157	22	1
40	32	16	**163 595 005**	**163 595 015**	84	179	26	1 ¼
50	40	16	**163 595 006**	**163 595 016**	97	197	31	1 ½
63	50	16	**163 595 007**	**163 595 017**	124	229	38	2
75	65	16	**163 595 008**	**163 595 018**	166	258	45	2 ½
90	80	16	**163 595 009**	**163 595 019**	200	277	52	3
110	100	16	**163 595 010**	**163 595 020**	238	320	64	4





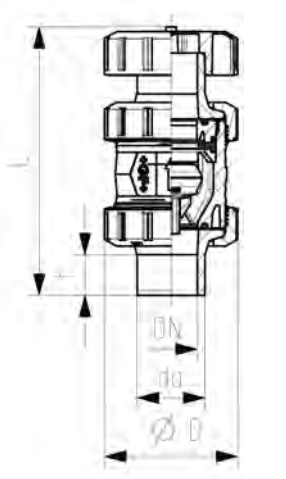
Ventilating and bleed valve
Type 591 PVC-U
With solvent cement sockets metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**161 591 001**	**161 591 011**	50	118	14	⅜
20	15	16	**161 591 002**	**161 591 012**	50	124	16	½
25	20	16	**161 591 003**	**161 591 013**	58	142	19	¾
32	25	16	**161 591 004**	**161 591 014**	68	157	22	1
40	32	16	**161 591 005**	**161 591 015**	84	179	26	1 ¼
50	40	16	**161 591 006**	**161 591 016**	97	197	31	1 ½
63	50	16	**161 591 007**	**161 591 017**	124	229	38	2
75	65	16	**161 591 008**	**161 591 018**	166	258	45	2 ½
90	80	16	**161 591 009**	**161 591 019**	200	277	52	3
110	100	16	**161 591 010**	**161 591 020**	238	320	64	4





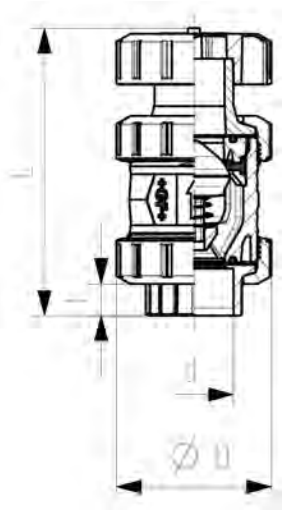
Ventilating and bleed valve
Type 591 PVC-U
With solvent cement spigots metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**161 591 041**	**161 591 051**	50	129	14	⅜
20	15	16	**161 591 042**	**161 591 052**	50	139	16	½
25	20	16	**161 591 043**	**161 591 053**	58	160	19	¾
32	25	16	**161 591 044**	**161 591 054**	68	172	22	1
40	32	16	**161 591 045**	**161 591 055**	84	193	26	1 ¼
50	40	16	**161 591 046**	**161 591 056**	97	215	31	1 ½
63	50	16	**161 591 047**	**161 591 057**	124	249	38	2
75	65	16	**161 591 048**	**161 591 058**	166	284	44	2 ½
90	80	16	**161 591 049**	**161 591 059**	200	300	52	3
110	100	16	**161 591 050**	**161 591 060**	238	340	61	4





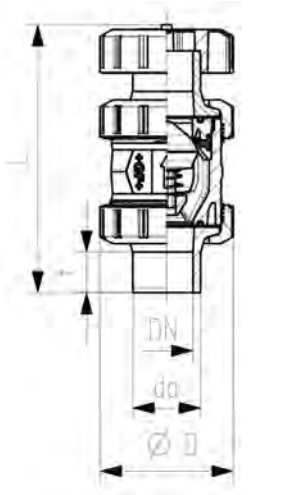
Ventilating valve type 595 PVC-U
With solvent cement sockets metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**161 595 001**	**161 595 011**	50	118	14	⅜
20	15	16	**161 595 002**	**161 595 012**	50	124	16	½
25	20	16	**161 595 003**	**161 595 013**	58	142	19	¾
32	25	16	**161 595 004**	**161 595 014**	68	157	22	1
40	32	16	**161 595 005**	**161 595 015**	84	179	26	1 ¼
50	40	16	**161 595 006**	**161 595 016**	97	197	31	1 ½
63	50	16	**161 595 007**	**161 595 017**	124	229	38	2
75	65	16	**161 595 008**	**161 595 018**	166	258	45	2 ½
90	80	16	**161 595 009**	**161 595 019**	200	277	52	3
110	100	16	**161 595 010**	**161 595 020**	238	320	64	4





Ventilating valve type 595 PVC-U
With solvent cement spigots metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**161 595 041**	**161 595 051**	50	129	14	⅜
20	15	16	**161 595 042**	**161 595 052**	50	139	16	½
25	20	16	**161 595 043**	**161 595 053**	58	160	19	¾
32	25	16	**161 595 044**	**161 595 054**	68	172	22	1
40	32	16	**161 595 045**	**161 595 055**	84	193	26	1 ¼
50	40	16	**161 595 046**	**161 595 056**	97	215	31	1 ½
63	50	16	**161 595 047**	**161 595 057**	124	249	38	2
75	65	16	**161 595 048**	**161 595 058**	166	284	44	2 ½
90	80	16	**161 595 049**	**161 595 059**	200	300	52	3
110	100	16	**161 595 050**	**161 595 060**	238	340	61	4

AQUASYSTEM



Technical data

Materials
PP-R, brass

Dimensions range
d20 mm – d110 mm

Jointing technology
Socket fusion

Operating pressure
Up to 20 bar

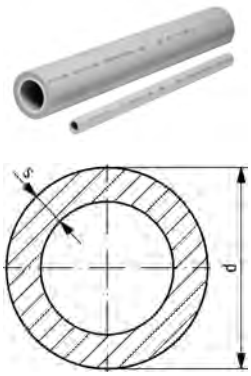
Operating temperature
5°C to 60°C

Your benefits

+ **Noise reduction**
+ **Corrosion free**
+ **Easy jointing technology**
+ **Less maintenance cost**

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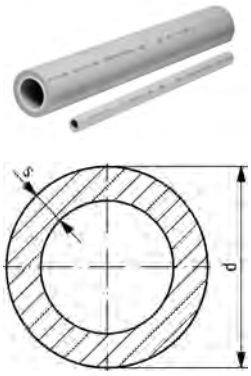
Pipes



Pipe PN20

- * not certified for shipbuilding

d (mm)	s (mm)	Code	SP	Weight (kg)	L (mm)
20	3.4	**760 840 002**	90	0.176	3000
25	4.2	**760 840 003**	60	0.270	3000
32	5.4	**760 840 004**	45	0.444	3000
40	6.7	**760 840 005**	30	0.690	3000
50	8.4	**760 840 006**	15	1.037	3000
63	10.5	**760 840 007**	9	1.688	3000
75	12.5	**760 840 008**	9	2.409	3000
90	15.0	**760 840 009**	6	3.450	3000
110	18.4	**760 840 010**	6	4.910	3000



Pipe PN10
For cold water only

- * not certified for shipbuilding

d (mm)	s (mm)	Code	SP	Weight (kg)	L (mm)
20	1.9	**760 840 012**	90	0.107	3000
25	2.3	**760 840 013**	60	0.164	3000
32	3.0	**760 840 014**	45	0.267	3000
40	3.7	**760 840 015**	30	0.412	3000
50	4.6	**760 840 016**	15	0.636	3000
63	5.8	**760 840 017**	9	1.005	3000
75	6.9	**760 840 018**	9	1.418	3000
90	8.2	**760 840 019**	6	2.030	3000
110	10.0	**760 840 020**	6	3.000	3000

Socket fusion fittings



Socket

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
20	**760 840 022**	20	0.013	30	36	4
25	**760 840 023**	15	0.017	34	40	4
32	**760 840 024**	10	0.026	42	43	3
40	**760 840 025**	10	0.051	55	47	3
50	**760 840 026**	6	0.091	69	53	3
63	**760 840 027**	2	0.168	86	62	4
75	**760 840 028**	2	0.280	107	67	5
90	**760 840 029**	1	0.425	127	74	6
110	**760 840 030**	1	0.380	148	80	6



90° elbow

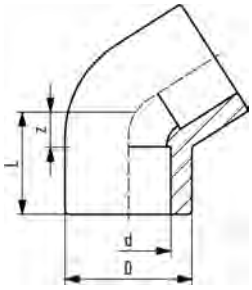
d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
20	**760 840 032**	20	0.018	30	42	11
25	**760 840 033**	10	0.030	34	48	13
32	**760 840 034**	10	0.046	42	59	18
40	**760 840 035**	5	0.090	55	71	21
50	**760 840 036**	4	0.167	69	87	27
63	**760 840 037**	2	0.315	86	106	34
75	**760 840 038**	1	0.535	107	124	39
90	**760 840 039**	1	0.860	129	145	46
110	**760 840 040**	1	1.090	148	173	62



90° elbow, male-female

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
20	**760 840 042**	20	0.019	29	45	14
25	**760 840 047**	10	0.030	34	51	16
32	**760 840 048**	10	0.047	42	60	19

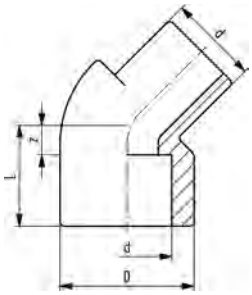




45° elbow

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
20	**760 840 052**	20	0.016	30	20	5
25	**760 840 053**	20	0.020	34	22	6
32	**760 840 054**	10	0.031	42	27	8
40	**760 840 055**	10	0.068	55	31	10
50	**760 840 056**	5	0.124	69	36	12
63	**760 840 057**	2	0.237	86	44	14
75	**760 840 058**	1	0.397	107	48	16
90	**760 840 059**	1	0.530	122	55	19
110	**760 840 060**	1	0.700	148	69	32

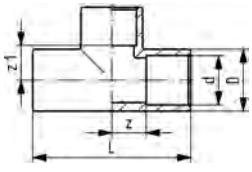




45° elbow, male-female

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
20	**760 840 172**	20	0.013	30	20	5

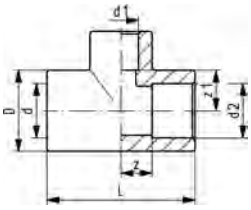




Tee equal

d (mm)	Code	SP	Weight (kg)	z1 (mm)	D (mm)	L (mm)	z (mm)
20	**760 840 062**	20	0.023	12	30	55	12
25	**760 840 063**	10	0.036	14	34	64	14
32	**760 840 064**	10	0.070	19	42	77	19
40	**760 840 065**	5	0.126	22	55	87	22
50	**760 840 066**	2	0.236	28	69	105	28
63	**760 840 067**	1	0.445	34	86	126	34
75	**760 840 068**	1	0.705	40	107	141	40
90	**760 840 069**	1	0.920	46	122	162	46
110	**760 840 070**	1	1.280	62	148	198	62

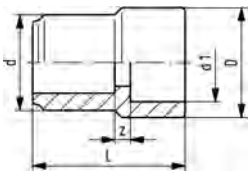




Reducing Tee

d1 (mm)	d (mm)	d2 (mm)	Code	SP	Weight (kg)	z1 (mm)	D (mm)	L (mm)	z (mm)
20	25	25	**760 840 071**	10	0.038	14	34	64	14
20	25	20	**760 840 072**	10	0.041	14	34	64	15
25	25	20	**760 840 073**	10	0.038	14	34	64	15
20	32	32	**760 840 076**	10	0.064	19	42	77	19
25	32	32	**760 840 077**	10	0.064	19	42	77	19
32	32	25	**760 840 078**	10	0.073	19	42	77	20
25	32	25	**760 840 079**	10	0.068	19	42	77	20
20	40	40	**760 840 082**	5	0.080	24	52	88	24
25	40	40	**760 840 083**	5	0.190	24	52	88	24
32	40	40	**760 840 084**	5	0.135	26	55	88	25
20	50	50	**760 840 087**	2	0.190	31	65	104	28
25	50	50	**760 840 088**	2	0.190	30	65	104	28
32	50	50	**760 840 089**	2	0.190	28	65	104	27
40	50	50	**760 840 090**	2	0.254	32	69	106	35
25	63	63	**760 840 092**	1	0.390	46	85	124	35
32	63	63	**760 840 093**	1	0.400	44	85	124	35
40	63	63	**760 840 094**	1	0.390	35	85	124	34
50	63	63	**760 840 095**	1	0.472	34	86	128	41
25	75	75	**760 840 086**	4	0.550	55	100	142	41
32	75	75	**760 840 096**	1	0.560	53	100	142	41
40	75	75	**760 840 097**	1	0.520	51	100	142	41
50	75	75	**760 840 098**	1	0.550	48	100	142	42
63	75	75	**760 840 099**	1	0.647	35	107	141	40
75	90	90	**760 840 100**	1	0.880	53	120	166	50
90	110	110	**760 840 101**	1	1.280	84	165	248	84

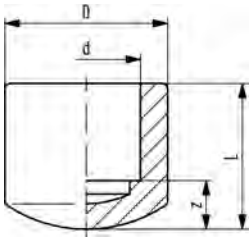




Reducing bush, male-female

d1 (mm)	d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
20	25	**760 840 102**	20	0.010	28	39	5
20	32	**760 840 105**	15	0.016	28	44	8
25	32	**760 840 106**	15	0.018	33	46	8
20	40	**760 840 107**	10	0.027	29	47	10
25	40	**760 840 109**	10	0.029	35	50	11
32	40	**760 840 110**	10	0.034	44	52	11
20	50	**760 840 111**	10	0.047	27	53	12
25	50	**760 840 112**	10	0.047	34	55	12
32	50	**760 840 114**	10	0.052	44	58	13
40	50	**760 840 115**	10	0.060	55	60	13
20	63	**760 840 117**	5	0.085	27	60	15
25	63	**760 840 118**	5	0.085	32	62	15
32	63	**760 840 119**	5	0.085	42	64	15
40	63	**760 840 120**	5	0.096	55	70	19
50	63	**760 840 121**	5	0.110	59	70	17
25	75	**760 840 129**	2	0.135	32	66	12
32	75	**760 840 130**	2	0.135	42	63	12
40	75	**760 840 122**	2	0.135	55	63	14
50	75	**760 840 123**	2	0.150	70	70	14
63	75	**760 840 124**	2	0.183	87	75	15
50	90	**760 840 125**	2	0.192	71	72	17
63	90	**760 840 126**	2	0.205	86	82	19
75	90	**760 840 127**	2	0.241	100	84	19
63	110	**760 840 139**	1	0.300	130	87	27
75	110	**760 840 116**	1	0.350	130	90	29
90	110	**760 840 128**	1	0.340	130	93	31
110	125	**760 840 131**	1	1.245	130	45	35

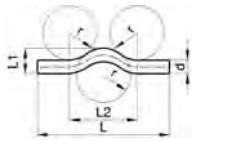




Cap

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
20	**760 840 132**	20	0.010	30	27	11
25	**760 840 133**	20	0.013	34	29	11
32	**760 840 134**	10	0.021	42	33	13
40	**760 840 135**	10	0.039	55	35	15
50	**760 840 136**	10	0.073	69	42	20
63	**760 840 137**	5	0.137	86	50	25
75	**760 840 138**	2	0.251	107	58	27

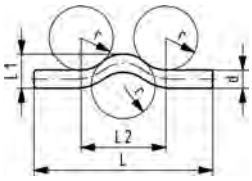




Swan neck

d (mm)	Code	SP	Weight (kg)	r (mm)	L (mm)	L1 (mm)	L2 (mm)
20	**760 840 142**	10	0.065	80	350	45	200
25	**760 840 143**	10	0.099	80	350	55	200
32	**760 840 144**	8	0.156	80	350	67	200

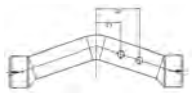




Narrow swan neck

d (mm)	Code	SP	Weight (kg)	r (mm)	L (mm)	L1 (mm)	L2 (mm)
20	**760 840 146**	10	0.065	70	365	55	180



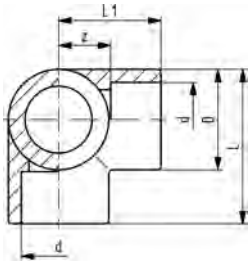


Narrow swan neck F-F

d (mm)	Code	SP	Weight (kg)	h (mm)	l (mm)
20	**760 840 148**	1	0.042	48	160
25	**760 840 149**	1	0.068	60	200

Three-ways welding 90° elbow

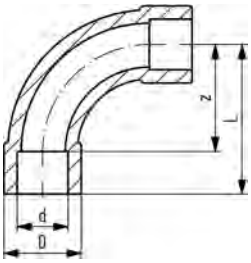




d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	z (mm)
20	**760 840 152**	20	0.022	30	42	28	10

90° bend

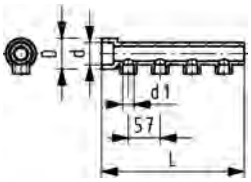




d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
20	**760 840 162**	10	0.031	29	70	40
25	**760 840 163**	10	0.038	34	85	50

Manifold

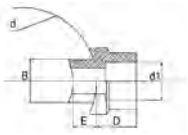




d (mm)	Rp (inch)	d1 (mm)	Code	SP	Weight (kg)	z (mm)	L (mm)	D (mm)
40		20	**760 840 182**	1	0.241	57	255	55
40	½		**760 840 186**	1	0.490	57	255	55

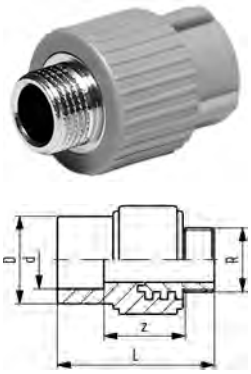
Saddle with spigot





d - d1 (mm)	Code	SP	Weight (kg)	B (mm)	E (mm)	D (mm)
40 - 20	**760 840 190**	10	0.016	22	7	20
40 - 25	**760 840 191**	10	0.018	22	7	27
50 - 20	**760 840 192**	10	0.016	22	8	20
50 - 25	**760 840 193**	10	0.018	22	8	27
63 - 20	**760 840 194**	10	0.016	22	10	20
63 - 25	**760 840 195**	10	0.018	22	10	27
63 - 32	**760 840 196**	10	0.028	32	10	30
75 - 20	**760 840 197**	10	0.016	22	10	20
75 - 25	**760 840 198**	10	0.018	22	10	27
75 - 32	**760 840 199**	10	0.028	32	10	30
75 - 40	**760 840 200**	10	0.042	32	15	30
90 - 20	**760 840 220**	10	0.016	22	15	20
90 - 25	**760 840 221**	10	0.029	22	15	27
90 - 32	**760 840 222**	10	0.029	32	15	30
90 - 40	**760 840 231**	10	0.040	32	15	30
110 - 20	**760 840 223**	10	0.016	22	15	20
110 - 25	**760 840 224**	10	0.018	22	15	27
110 - 32	**760 840 225**	10	0.028	32	15	30
110 - 40	**760 840 226**	10	0.040	32	15	30

Transition fittings



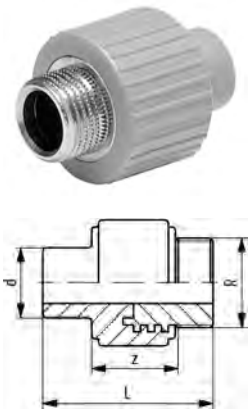
Threaded male coupling

d (mm)	R (inch)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
20	½	**760 840 241**	10	0.086	30	54	23
20	¾	**760 840 242**	10	0.137	34	56	24
25	½	**760 840 243**	10	0.088	34	56	25
25	¾	**760 840 244**	10	0.133	34	56	22
32	¾	**760 840 245**	6	0.137	42	67	31
32	1	**760 840 246**	6	0.328	42	80	43
40	1	**760 840 239**	2	0.338	54	86	28
40	1 ¼	**760 840 247**	2	0.463	54	85	43
50	1 ½	**760 840 248**	2	0.529	68	89	44
63	2	**760 840 249**	2	0.776	85	100	46
75	2 ½	**760 840 250**	1	1.170	101	108	50
90	3	**760 840 238**	1	1.450	121	113	50



Threaded female saddle with spigot

Rp (inch)	d (mm)	Code	SP	Weight (kg)	B (mm)	D (mm)	C (mm)
½	40	**760 840 764**	10	0.062	22	27	13
½	50	**760 840 766**	10	0.061	22	27	13
¾	50	**760 840 767**	10	0.090	32	30	21
½	63	**760 840 768**	10	0.062	22	27	13
¾	63	**760 840 769**	10	0.090	32	30	21
½	75	**760 840 770**	10	0.062	22	27	13
¾	75	**760 840 771**	10	0.090	32	30	21
1	75	**760 840 772**	10	0.221	32	34	22
½	90	**760 840 773**	10	0.062	22	27	13
¾	90	**760 840 774**	10	0.090	32	30	21
1	90	**760 840 775**	10	0.221	32	34	22
½	110	**760 840 776**	10	0.062	22	27	13
¾	110	**760 840 777**	10	0.091	32	30	21
1	110	**760 840 778**	10	0.221	32	34	22

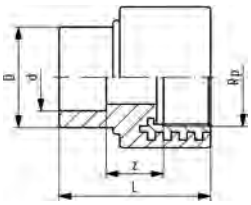


Threaded male coupling for connection

d (mm)	R (inch)	Code	SP	Weight (kg)	z (mm)	L (mm)
20	½	**760 840 251**	10	0.083	21	52
25	½	**760 840 253**	10	0.088	21	52
25	¾	**760 840 254**	10	0.130	21	55
32	¾	**760 840 255**	6	0.168	29	65
32	1	**760 840 256**	6	0.323	40	77
40	1	**760 840 257**	2	0.235	33	78

Threaded female coupling

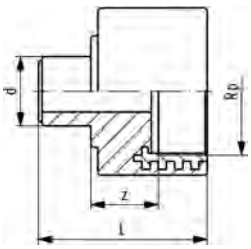




Rp (inch)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
½	20	**760 840 271**	10	0.076	13	30	42
¾	20	**760 840 272**	10	0.084	12	34	42
½	25	**760 840 273**	10	0.078	11	34	42
¾	25	**760 840 274**	10	0.083	10	34	42
¾	32	**760 840 275**	6	0.089	19	42	53
1	32	**760 840 276**	6	0.240	25	42	62
1	40	**760 840 269**	2	0.249	28	54	71
1 ¼	40	**760 840 277**	2	0.381	26	54	68
1 ½	50	**760 840 278**	2	0.441	26	68	71
2	63	**760 840 279**	2	0.610	26	85	80
2 ½	75	**760 840 280**	1	0.804	25	101	83

Threaded female coupling for connection

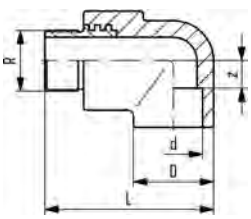




d (mm)	Rp (inch)	Code	SP	Weight (kg)	z (mm)	L (mm)
20	½	**760 840 281**	10	0.066	13	40
25	½	**760 840 283**	10	0.075	11	40
25	¾	**760 840 284**	10	0.080	10	40
32	¾	**760 840 285**	6	0.117	19	51
32	1	**760 840 286**	6	0.233	26	61
40	1	**760 840 287**	2	0.235	24	62

Threaded male 90° elbow

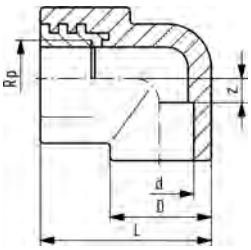




d (mm)	R (inch)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
20	½	**760 840 291**	10	0.093	12	29	61
20	¾	**760 840 292**	10	0.141	12	29	65
25	½	**760 840 293**	10	0.109	15	34	69
25	¾	**760 840 294**	10	0.153	15	34	71
32	¾	**760 840 295**	6	0.163	17	42	83
32	1	**760 840 296**	6	0.345	19	43	91

Threaded female 90° elbow

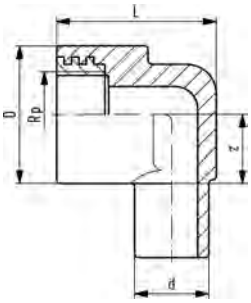




Rp (inch)	d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)
½	20	**760 840 301**	10	0.086	12	29	49
¾	20	**760 840 302**	10	0.091	12	29	49
½	25	**760 840 303**	10	0.098	15	34	57
¾	25	**760 840 304**	10	0.103	15	34	57
¾	32	**760 840 305**	5	0.113	17	43	69
1	32	**760 840 306**	6	0.256	19	44	75

Threaded female 90° elbow with spigot

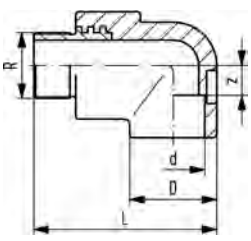




Rp (inch)	d (mm)	Code	SP	Weight (kg)	D (mm)	z (mm)	L (mm)
½	20	**760 840 315**	10	0.079	37	14	43

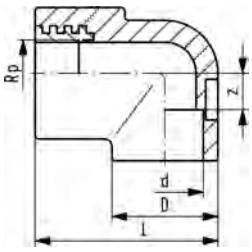
Threaded male 90° elbow with bracket





d (mm)	R (inch)	Code	SP	Weight (kg)	L (mm)	z (mm)	D (mm)
20	½	**760 840 321**	10	0.096	62	12	29

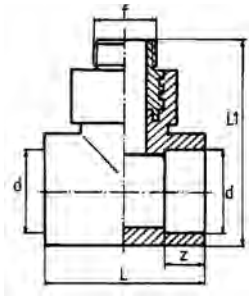




Threaded female 90° elbow with bracket

Rp (inch)	d (mm)	Code	SP	Weight (kg)	z (mm)	L (mm)	D (mm)
½	20	**760 840 331**	10	0.088	12	50	29

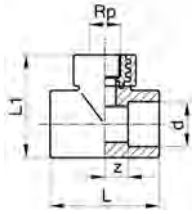




Threaded male tee

d (mm)	R (inch)	Code	SP	Weight (kg)	z (mm)	L (mm)	L1 (mm)
20	½	**760 840 341**	10	0.098	11	55	64
20	¾	**760 840 342**	10	0.144	11	55	65
25	½	**760 840 343**	10	0.111	14	64	69
25	¾	**760 840 344**	10	0.160	14	64	72
32	¾	**760 840 345**	6	0.186	18	77	79
32	1	**760 840 346**	6	0.353	18	77	91



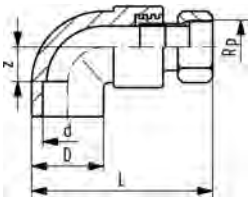


Threaded female tee

Rp (inch)	d (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	z (mm)
½	20	**760 840 351**	10	0.087	55	50	11
¾	20	**760 840 352**	10	0.095	55	50	11
½	25	**760 840 353**	10	0.103	64	57	14
¾	25	**760 840 354**	10	0.109	64	57	14
½	32	**760 840 360**	6	0.126	77	64	18
¾	32	**760 840 355**	6	0.133	77	64	18
1	32	**760 840 356**	6	0.267	77	75	18

90° elbow for metal taper threaded

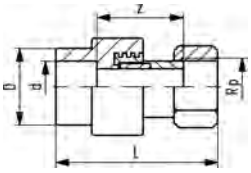




d (mm)	Rp (inch)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
20	¾	**760 840 362**	10	0.145	29	69	12
25	1	**760 840 365**	10	0.209	34	91	15
32	1 ¼	**760 840 367**	6	0.414	43	101	19

Adaptor union for metal taper threaded

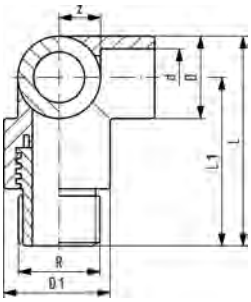




Rp (inch)	d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
¾	20	**760 840 372**	10	0.130	30	63	23
1	25	**760 840 375**	10	0.189	34	68	27
1 ¼	32	**760 840 377**	6	0.315	43	90	30
1 ½	40	**760 840 379**	1	0.647	54	102	68
2	50	**760 840 380**	1	0.810	68	110	72

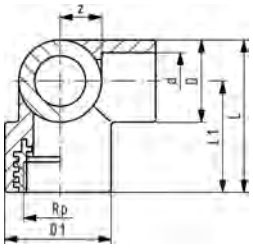
Three-ways threaded male 90° elbow





R (inch)	d (mm)	Code	SP	Weight (kg)	D1 (mm)	L (mm)	L1 (mm)	D (mm)	z (mm)
½	20	**760 840 382**	10	0.096	37	63	35	29	12

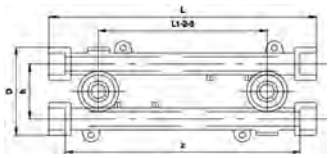




Three-ways threaded female 90° elbow

Rp (inch)	d (mm)	Code	SP	Weight (kg)	D1 (mm)	z (mm)	L (mm)	L1 (mm)	D (mm)
½	20	**760 840 392**	10	0.087	37	12	50	35	29





Modular distribution element

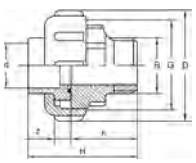
Rp (inch)	d (mm)	Code	SP	Weight (kg)	L (mm)	L2 (mm)	z (mm)	L3 (mm)	L1 (mm)	D (mm)
½	20	**760 840 335**	1	0.255	248	135	220	153	100	80



Distribution element

d-d (mm)	Rp (inch)	Code	SP	Weight (kg)
20 - 25	½	**760 840 336**	1	0.422
20 - 25	¾	**760 840 337**	1	0.462

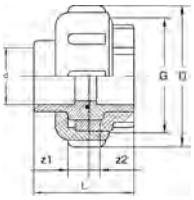




Adaptor union socket male threaded

R (inch)	d (mm)	Code	SP	Weight (kg)	G (inch)	h (mm)	D (mm)	z (mm)	H (mm)
¾	25	**760 840 702**	5	0.325	1 ½	41	56	8	67
1	32	**760 840 703**	5	0.471	2 ½	45	69	8	73
1 ¼	40	**760 840 704**	1	0.758	2 ½	48	83	10	80
1 ½	50	**760 840 705**	1	0.800	2 ¾	48	90	10	83
2	63	**760 840 706**	1	1.175	3 ½	54	104	10	92

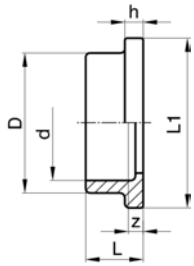




Adaptor union socket-socket

d (mm)	Code	SP	Weight (kg)	G (inch)	L (mm)	z1 (mm)	z2 (mm)	D (mm)
25	**760 840 732**	5	0.215	1 ½	49	8	5	56
32	**760 840 733**	5	0.297	2 ½	53	8	5	69
40	**760 840 734**	1	0.474	2 ½	59	10	5	83
50	**760 840 735**	1	0.510	2 ¾	65	10	5	90
63	**760 840 736**	1	0.753	3 ½	71	10	5	110





Flange adaptor

d (mm)	Code	SP	Weight (kg)	L1 (mm)	z (mm)	D (mm)	L (mm)
25	**760 840 414**	10	0.012	41	5	33	23
32	**760 840 415**	5	0.018	50	5	41	25
40	**760 840 416**	5	0.024	61	5	50	27
50	**760 840 417**	2	0.046	74	8	61	33
63	**760 840 418**	2	0.084	91	8	76	37
75	**760 840 419**	2	0.163	107	8	90	39
90	**760 840 420**	2	0.233	126	10	106	46
110	**760 840 421**	1	0.240	150	7	131	49



Transition coupler PPR-iFIT

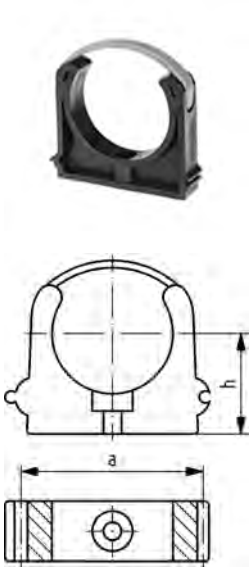
d1 (mm)	d (mm)	Code	SP	Weight (kg)
16 - 20	20	**760 840 741**	10	0.086
16 - 20	25	**760 840 742**	10	0.088
25 - 32	25	**760 840 743**	10	0.134
25 - 32	32	**760 840 744**	6	0.137



Transition saddle PPR-iFIT

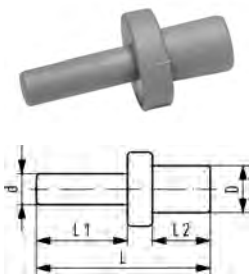
d1 (mm)	d (mm)	Code	SP	Weight (kg)
16 - 20	40	**760 840 751**	10	0.110
16 - 20	50	**760 840 753**	10	0.110
25 - 32	50	**760 840 754**	10	0.130
16 - 20	63	**760 840 755**	10	0.110
25 - 32	63	**760 840 756**	10	0.130
16 - 20	75	**760 840 757**	10	0.110
25 - 32	75	**760 840 758**	10	0.130
16 - 20	90	**760 840 759**	10	0.110
25 - 32	90	**760 840 760**	10	0.130
16 - 20	110	**760 840 761**	10	0.110
25 - 32	110	**760 840 762**	10	0.130

Accessories



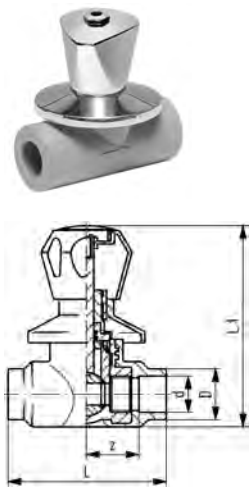
Pipe clamp

	Code	Weight (kg)	HoH +/- 2mm (mm)
	167 061 036	0.007	21
	167 061 037	0.009	27
*	**167 061 038**	0.012	37
	167 061 039	0.027	44
	167 061 040	0.031	52
	167 061 041	0.052	67
	167 061 012	0.057	
	167 061 013	0.092	
	167 061 014	0.117	
	167 061 015	0.180	



Repairing hole plug

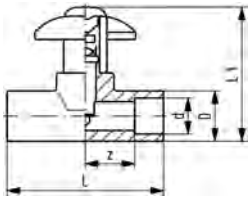
di (mm)	Code	SP	Weight (kg)	L2 (mm)	D (mm)	L1 (mm)	L (mm)
8	**760 840 425**	20	0.001	14	11	22	42



Stop cock with handle

d (mm)	Code	SP	Weight (kg)	L1 (mm)	L (mm)	D (mm)	z (mm)
20	**760 840 462**	4	0.359	114	77	28	22
25	**760 840 463**	4	0.384	118	87	36	25
32	**760 840 464**	4	0.494	119	90	43	25





Stop cock tap

d (mm)	Code	SP	Weight (kg)	D (mm)	L1 (mm)	L (mm)	z (mm)
20	**760 840 432**	16	0.234	28	91	77	22
25	**760 840 433**	16	0.292	36	91	87	25
32	**760 840 434**	4	0.309	43	98	90	25



Handle for cock

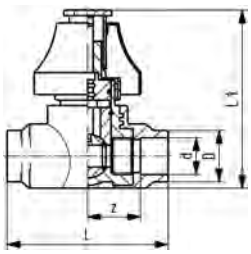
d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)	L1 (mm)
20 - 25 - 32	**760 840 436**	20	0.266	16 - 18	36	87	121



Extension for cock

d (mm)	Code	SP	Weight (kg)	z (mm)	D (mm)	L (mm)	L1 (mm)
20 - 25 - 32	**760 840 438**	100	0.096	16 - 18	36	87	130

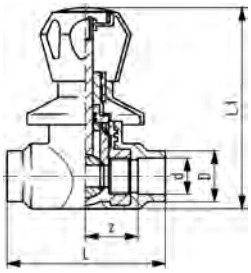




Ball valve

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	z (mm)
20	**760 840 444**	4	0.393	28	86	100	27
25	**760 840 445**	4	0.404	33	98	100	31

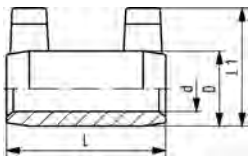




Ball valve with handle

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	z (mm)
20	**760 840 447**	4	0.511	28	86	105	27
25	**760 840 448**	16	0.522	33	98	105	31





Electric socket

d (mm)	Code	SP	Weight (kg)	L1 (mm)	D (mm)	L (mm)
20	**760 840 452**	1	0.040	50	33	70
25	**760 840 453**	1	0.049	57	38	70
32	**760 840 454**	1	0.063	62	46	79
40	**760 840 455**	1	0.092	71	55	90
50	**760 840 456**	1	0.149	82	67	100
63	**760 840 457**	1	0.263	101	86	106
75	**760 840 458**	1	0.320	115	103	121
90	**760 840 459**	1	0.580	134	121	131
110	**760 840 460**	1	0.790	156	142	142

Machine and tools

Tools and accessories



Standard socket welder

Model:

- 518: socket welder with electromechanical temperature regulation, 700W - 230V
- 519: socket welder with electronic temperature regulation, 700W - 230V
- 521: socket welder with electromechanical temperature regulation, 1500W - 230V

d (mm)	Code	SP	Weight (kg)
16 - 63	**760 840 518**	1	2.400
16 - 63	**760 840 519**	1	2.400
16 - 110	**760 840 521**	1	3.800



Bench holder

Code	SP	Weight (kg)
760 840 524	1	0.580



Suitcase

Code	SP	Weight (kg)
760 840 533	1	3.000



Complete socket welder
PE63R manual welding with electromechanical thermostat, 700W - 230V

Model:

- Heating tools 20-32
- Fork holder
- Empty box

d-d (mm)	Code	SP	Weight (kg)
20 - 32	**760 840 540**	1	8.300



Set of heating tools for welder

d (mm)	Code	SP	Weight (kg)
20	**760 840 562**	1	0.085
25	**760 840 563**	1	0.100
32	**760 840 564**	1	0.180
40	**760 840 565**	1	0.270
50	**760 840 566**	1	0.300
63	**760 840 567**	1	0.300
75	**760 840 568**	1	0.300
90	**760 840 569**	1	0.400
110	**760 840 570**	1	1.980



Hole mender

d (mm)	Code	SP	Weight (kg)
8	**760 840 481**	1	0.050
12	**760 840 482**	1	0.050



Set of heating tools for saddles

d (mm)	Code	SP	Weight (kg)
40 - 20 - 25	**760 840 585**	1	0.209
50 - 20 - 25	**760 840 586**	1	0.223
63 - 20 - 25	**760 840 587**	1	0.223
75 - 20 - 25	**760 840 588**	1	0.231
90 - 20 - 25	**760 840 589**	1	0.231
110 - 20 - 25	**760 840 590**	1	0.233
125 - 20 - 25	**760 840 591**	1	0.250
50 - 32 - 40	**760 840 592**	1	0.285
63 - 32 - 40	**760 840 593**	1	0.317
75 - 32 - 40	**760 840 594**	1	0.322
90 - 32 - 40	**760 840 595**	1	0.322
110 - 32 - 40	**760 840 596**	1	0.334



Milling cutter for saddles with spigot

d (mm)	Code	SP
20 - 25	**760 840 600**	1
32	**760 840 601**	1



Thermostatic pencil

Code	Weight (kg)
799 496 008	0.169
799 496 009	0.013





Cutting nippers

d (mm)	Code	SP	Weight (kg)
20 - 32	**760 840 484**	1	0.510
20 - 75	**760 840 486**	1	2.700



Pipe cutter

d-d (mm)	Code	SP	Weight (kg)
20 - 75	**760 840 505**	1	0.680
50 - 110	**760 840 506**	1	1.380



Electronic bench socket welding machine

Model:

- PB660 with electronic socket welder 1200W - 230V

d-d (mm)	Code	SP	Weight (kg)	Mod.
20 - 110	**760 840 660**	1	65.000	PB660

Accessories





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	Blanking flange PP-H	605
	Blanking flanges PP-Steel	606
	Backing flanges PP-V	608
	Fixed flanges PVC-U JIS	611
	Seals	612
	Pipe clips metric	616

Flange joints

Creating flange joints

When making a flange connection, the following points have to be taken into consideration:

There is a general difference between the connection of plastic pipes and so-called adapter joints, which represent the transition from a plastic pipe to a metal pipe or a metal valve. Seals and flanges should be selected accordingly.

Flanges with sufficient thermal and mechanical stability should be used. GF flange types fulfil these requirements.

Orientation of bolts outside main axis.
Horizontal pipelines should have the shown orientation of the bolts in order to avoid in case of leakage medium drop on the bolts.



Information: Within the range of flexible sections and/or expansion loops no flange connections shall be used, because the bending load can lead to leakages.

Ensure centrically alignment of flange adaptor, flange and the seal with pipe axis.

When inserting a seal between the flange connections, the dimensions of the seal should be checked to make sure they correspond to the outer and inner diameter of the flange adapters. If the deviation between the inner diameter of the seal and the adapter is more than 10 mm, problems may arise with the flange connection.

Before pre-tightening the bolts, the jointing faces must be flush and must sit closely on the seal. Pulling the pipes together within the flange connection is to be strictly avoided because of the tensile stress which results thereof.

The length of the bolts should be selected so that the thread at the nut does not protrude more than 2 to 3 turns. A washer should be placed under the bolt head and also under the nut.

To make sure that the connecting bolts can be easily removed after a lengthy period of use, the thread should be coated with e. g. molybdenum sulphide.

Tighten the bolts diagonally and evenly first assemble the bolts and hand-tighten nut, so that the gasket is perfectly in place and the flange adapters have a minimum offset. Then tighten all the bolts diagonally up to 50 % of the recommended torque, and afterwards to 100 % of the torque.

We recommend checking at a later time and, if necessary, retightening 24 hours after assembling.

After the pressure test, check and cinch if necessary.

For more information on flange connections, see DVS 2210-1 Suppl. 3.

Bolt tightening torque
The torque of the bolts in flange connections is of particular importance. We observe several different methods in practice:

As tight as possible: In time this will definitely overstrain a flange connection in plastic piping systems.

By feel: This requires a good deal of experience and material know-how.

Use of a torque wrench: This is the best method. We have listed the recommended values below; however, deviations can occur in practice. These can be caused by the use of, for example, self-locking nuts or pipe axes which are not flush. The Shore hardness of the seal can also influence the necessary torque force (see also the following information concerning sealing materials).

Bolt tightening torque guidelines for metric (ISO) flange connections with PP-V, PP- steel and PVC flanges.

Nominal diameter DN	Pipe diameter d	Bolt tightening torque [Nm]		
		Flat gasket up to max. pressure of 10 bar / 40 °C	Profile gasket up to max. pressure of 16 bar	O-ring up to max. pressure of 16 bar
15	20	10	10	10
20	25	10	10	10
25	32	15	10	10
32	40	20	15	15
40	50	25	15	15
50	63	35	20	20
65	75	50	25	25
80	90	30	15	15
100	110	35	20	20
125	125, 140	45	25	25
150	160, 180	60	35	30
200	200, 225	70 [1)]	45	35
250	250, 280	65 [1)]	35	30
300	315	90 [1)]	50	40
350	355	90 [1)]	50	-
400	400	100 [1)]	60	-
500	450, 500	190 [1)]	70	-
600	560, 630	220 [1)]	90	-

1) Up to a maximum working pressure of 6 bar

Information: Please observe the special bolt tightening torques given for DN250 and DN300 recommended for butterfly valves, see clause "Fundamentals for butterfly valves, hand operated".

The indicated torques are recommended by GF; with these torques a sufficient tightness of the flange connection is ensured. They deviate from the data in the DVS 2210-1 Supplement 3, which are to be understood

as upper limit values. Of course our components of the flange connection (adapters, flanges) are designed to withstand these upper limit values.

Dimensions of metric (ISO) flange connections.

Nominal diameter DN	Pipe diameter d	Min. bolt length (calculated)	Max. bolt length (calculated)	Number of screws x thread diameter
15	20	52	69	4 x M12
20	25	56	73	4 x M12
25	32	60	75	4 x M12
32	40	70	91	4 x M16
40	50	72	95	4 x M16
50	63	78	102	4 x M16
65	75	82	110	4 x M16
80	90	86	114	8 x M16
100	110	89	119	8 x M16
125	125, 140	101	137	8 x M16
150	160, 180	108	145	8 x M20
200	200, 225	130	167	8 x M20
250	250, 280	134	177	12 x M20
300	315	150	185	12 x M20
350	355	168	192	16 x M20
400	400	179	207	16 x M24
500	450, 500	249	253	20 x M24
600	560, 630	291	295	20 x M27

The minimum and maximum bolt lengths are given only for orientation. They are depending from the type of flanges and flange adaptors.
Exact values can be calculated from the information shown in the following clause "Length of bolts".

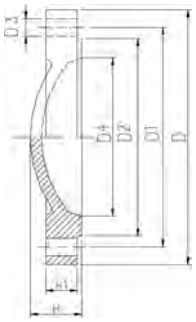
Bolt tightening torque guidelines for ANSI flange connections with PP-V, PP- steel and PVC flanges.

Nominal diameter- Inch	Nominal diameter DN	Bolt tightening torque [lb-ft]	
		Flat gasket up to max. pressure of 10 bar / 40 °C	Profile gasket up to max. pressure of 16 bar
½	15	15	10
¾	20	15	10
1	25	15	10
1¼	32	15	10
1½	40	15	10
2	50	30	20
2½	65	30	20
3	80	40	30
4	100	30	20
6	150	50	33
8	200	50	33
10	250	60 [1)]	40
12	300	75 [1)]	53

1) Up to a maximum working pressure of 6 bar

Backing flanges PVC-U





Blanking flange PVC-U
Jointing face serrated metric

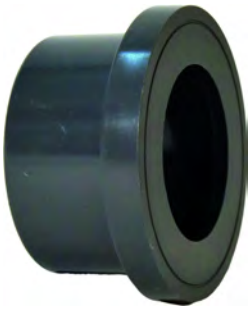
Model:

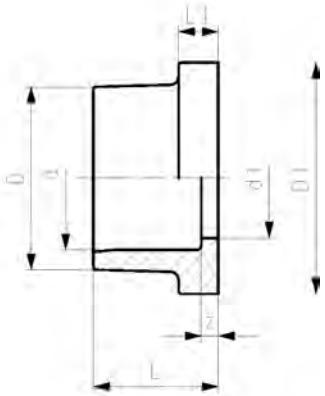
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- **d63 to d160: combined jointing face (serrated and flat)**
- d250: connecting dimension: ISO 2536
- **Bolt circle PN 10**

* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150
d20 - d110: bolt hole as long hole version
AL: number of holes

	Inch (inch)	DN (mm)	PN (bar)	d (mm)	Code	SP	Weight (kg)
*	1/2	15	10	20	**721 700 506**	75	0.075
*	3/4	20	10	25	**721 700 507**	50	0.097
*	1	25	10	32	**721 700 508**	30	0.145
*	1 1/4	32	10	40	**721 700 509**	20	0.214
*	11/2	40	10	50	**721 700 510**	18	0.298
*	2	50	10	63	**721 700 511**	15	0.352
*	2 1/2	65	10	75	**721 700 512**	10	0.538
*	3	80	10	90	**721 700 513**	20	0.679
*	4	100	10	110	**721 700 514**	10	0.870
*	5	125	10	140	**721 700 516**	1	1.286
*	6	150	10	160	**721 700 517**	1	1.761
	8	200	10	225	**721 700 520**	1	2.731
	10	250	10	250	**721 700 521**	1	3.329
	10	250	10	280	**721 700 522**	1	3.769
	12	300	6	315	**721 700 523**	1	4.856
	14	350	6	355	**721 700 524**	1	6.972
	16	400	6	400	**721 700 525**	1	9.125

	D (mm)	D1 (mm)	D1 min. (mm)	D1 max. (mm)	D2 (mm)	D3 (mm)	D4 (mm)	H (mm)	H1 (mm)	AL
*	95		61	63	34	16	15	15	12	4
*	105		70	73	41	16	20	16	13	4
*	115		79	83	50	16	25	19	15	4
*	140		91	100	61	18	34	20	16	4
*	150		101	110	74	18	44	22	17	4
*	165		121	124	91	19	57	25	20	4
*	185		140	145	106	22	69	29	21	4
*	200		152	160	125	22	82	32	22	8
*	220		180	191	150	24	102	36	24	8
*	250	215			184	23	120	41	28	8
*	285	240			212	23	152	45	30	8
	340	295			261	22	213	63	36	8
	370	325			292	22	238	63	36	8
	395	350			320	22	266	65	36	12
	445	400			371	22	299	65	36	12
	505	460			430	22	341	67	38	16
	565	515			482	26	384	71	42	16





Flange adaptor PVC-U
Combined jointing face flat and serrated metric

Model:

- Solvent cement socket metric
- d16 - d50: Sealing surface flat
- d63 - d400: combined jointing face flat and serrated
- Combination with gasket: profile flange gasket EPDM code no. 748 440 705-725, FKM code no. 749 440 705-725 or flat gasket EPDM code no. 748 440 705-725, only use O-ring EPDM code no. 748 410 000-174, FKM code no. 749 410 000-174 in combination with conterpart flange adaptor code no. 721 810 105-123
- Combination with flanges (metric & ANSI): PVC-U, PP-V, PP-Steel

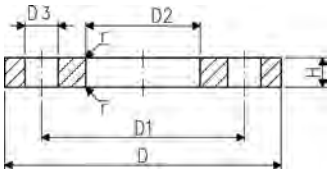
Note:

* bevel on pipe may be needed if used with butterfly valve type 037/038/039
The flat gasket affects the maximum allowable operating pressure!

	d (inch)	d (mm)	DN (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
		16	10	16	**721 800 105**	10	0.006	22	29	13	17	6	3
		20	15	16	**721 800 106**	10	0.009	27	34	16	19	6	3
		25	20	16	**721 800 107**	10	0.015	33	41	21	22	7	3
		32	25	16	**721 800 108**	10	0.024	41	50	28	25	7	3
		40	32	16	**721 800 109**	10	0.039	50	61	36	29	8	3
		50	40	16	**721 800 110**	10	0.056	61	73	45	34	8	3
		63	50	16	**721 790 111**	10	0.103	77	90	57	41	9	3
	2 ½	75	65	16	**721 790 112**	10	0.159	91	106	69	47	10	3
		90	80	16	**721 790 113**	10	0.253	108	125	82	56	11	5
		110	100	16	**721 790 114**	10	0.417	131	150	102	66	12	5
		125	125	16	**721 790 115**	5	0.533	148	170	117	74	13	5
	5	140	125	16	**721 790 116**	6	0.725	165	188	132	81	14	5
		160	150	16	**721 790 117**	2	1.093	188	213	152	91	16	5
*		200	200	10	**721 790 119**	2	1.460	224	250	192	112	24	6
		225	200	10	**721 790 120**	2	1.743	248	274	217	125	25	6
*		250	250	10	**721 790 121**	1	2.203	274	303	240	140	23	9
		280	250	10	**721 790 122**	1	2.930	308	329	270	151	23	5
*		315	300	6	**721 790 123**	1	4.455	346	379	302	172	27	8
		355	350	6	**721 790 124**	1	5.963	384	430	341	194	32	10
		400	400	6	**721 790 125**	1	9.041	438	482	384	216	34	10







Backing flange PVC-U metric

Model:

- For socket systems metric and BS
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**
- Maximum medium- or ambient temperature 45 °C

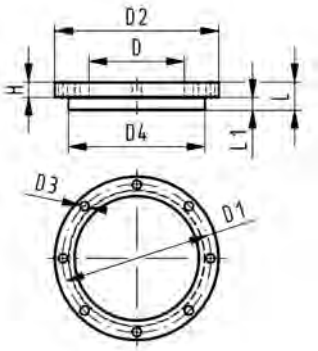
[1]) Suitable for socket -and butt fusion systems
[2]) Connecting dimension: ISO 2536. bolt circle acc. DN125. suitable for flange adaptor d125/ DN100
[3]) Connecting dimension: ISO 2536. bolt circle acc. DN225. suitable for flange adaptor d250/ DN250
[4]) Not for BS
AL: number of holes

	d (mm)	Size (inch)	DN (mm)	PN (bar)	Code	SP	Weight (kg)
	16	⅜	10	10	**721 700 005**	100	0.053
1	20	½	15	10	**721 700 006**	90	0.067
1	25	¾	20	10	**721 700 007**	50	0.092
1	32	1	25	10	**721 700 008**	40	0.133
1	40	1 ¼	32	10	**721 700 009**	25	0.198
1	50	1 ½	40	10	**721 700 010**	20	0.247
1	63	2	50	10	**721 700 011**	30	0.312
1	75	2 ½	65	10	**721 700 012**	25	0.376
	90	3	80	10	**721 700 013**	20	0.464
4	110	4	100	10	**721 700 014**	30	0.543
2	125	4 ½	125	10	**721 700 015**	12	0.904
	140	5	125	10	**721 700 016**	12	0.758
4	160	6	150	10	**721 700 017**	5	1.009
	200	7	200	10	**721 700 019**	8	1.669
	225	8	200	10	**721 700 020**	8	1.377
	250	9	250	6	**721 700 021**	1	2.376
3	250	9	225	6	**721 700 136**	1	1.800
	280	10	250	6	**721 700 137**	1	1.746
	315	12	300	6	**721 700 138**	1	2.349
	355	14	350	6	**721 700 139**	1	3.485
	400	16	400	6	**721 700 140**	1	4.526

	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	r (mm)	AL	SC
	16	90	60	23	14	10	1	4	M12
1	20	95	65	28	14	11	1	4	M12
1	25	105	75	34	14	12	2	4	M12
1	32	115	85	42	14	14	2	4	M12
1	40	140	100	51	18	15	2	4	M16
1	50	150	110	62	18	16	2	4	M16
1	63	165	125	78	18	18	3	4	M16
1	75	185	145	92	18	19	3	4	M16
	90	200	160	110	18	20	3	8	M16
4	110	220	180	133	18	22	3	8	M16
2	125	250	210	150	18	26	5	8	M16
	140	250	210	167	18	26	4	8	M16
4	160	285	240	190	22	28	4	8	M20
	200	340	295	226	22	32	4	8	M20
	225	340	295	250	22	32	4	8	M20
	250	395	350	277	22	36	4	12	M20
3	250	370	325	277	22	36	4	8	M20
	280	395	350	310	22	36	4	12	M20
	315	445	400	348	22	36	4	12	M20
	355	505	460	388	22	38	5	16	M20
	400	565	515	442	26	42	5	16	M24

Blanking flange PP-H





Blanking flange set PP-H
Combined jointing face flat and serrated metric

Model:

- d63 - d315: backing flange PP-V with end blank PP-H
- d355 - d630: backing flange PP/Steel with end blank PP-H
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501
- **Bolt circle PN 10**

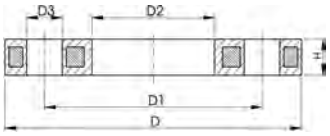
AL: number of holes
L: length of the End Blank

d (mm)	PN (bar)	DN (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	L (mm)	L1 (mm)	H (mm)	AL
63	10	50	**727 700 611**	1	0.531	75	125	165	18	102	30	14	24	4
75	10	65	**727 700 612**	1	0.901	89	145	185	18	122	30	16	26	4
90	10	80	**727 700 613**	1	1.054	105	160	200	18	138	30	17	27	8
110	10	100	**727 700 614**	1	1.199	125	180	220	18	158	30	18	28	8
125	10	100	**727 700 615**	1	1.201	132	180	220	18	158	35	25	28	8
140	10	125	**727 700 616**	1	1.748	155	210	250	18	188	40	25	30	8
160	10	150	**727 700 617**	1	2.312	175	240	285	22	212	40	25	32	8
180	10	150	**727 700 618**	1	2.443	180	240	285	22	212	45	30	32	8
200	10	200	**727 700 619**	1	3.961	232	295	340	22	268	50	32	34	8
225	10	200	**727 700 620**	1	3.956	235	295	340	22	268	50	32	34	8
250	10	250	**727 700 621**	1	5.425	285	350	395	22	320	55	35	38	12
280	10	250	**727 700 622**	1	19.781	291	350	395	22	320	60	35	38	12
315	10	300	**727 700 623**	1	8.602	335	400	445	22	370	65	35	42	12
355	10	350	**727 700 624**	1	23.184	373	460	515	22	430	70	40	40	16
400	10	400	**727 700 625**	1	30.304	427	515	574	26	482	75	46	40	16
450	10	500	**727 700 626**	1	43.485	510	620	684	26	585	80	60	49	20
500	10	500	**727 700 627**	1	46.203	530	620	684	26	585	90	60	49	20
560	10	600	**727 700 628**	1	65.823	615	725	796	30	685	100	60	58	20
630	10	600	**727 700 629**	1	67.056	642	725	796	30	685	110	60	68	20

Blanking flanges PP-Steel







Backing flange PP-Steel metric
For butt fusion systems metric

Model:

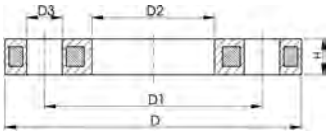
- Material: PP (30% glass-fibre reinforced) with steel ring
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes
[1]) Suitable for socket -and butt fusion systems
[2]) Combined version, bolt circle metric - ANSI

	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	20	15	16	**727 700 206**	0.216	95	65	28	14	12	4	M12
1	25	20	16	**727 700 207**	0.279	105	75	34	14	12	4	M12
1	32	25	16	**727 700 208**	0.429	115	85	42	14	16	4	M12
1	40	32	16	**727 700 209**	0.621	140	100	51	18	16	4	M16
1	50	40	16	**727 700 210**	0.722	150	110	62	18	20	4	M16
1	63	50	16	**727 700 211**	0.900	165	125	78	18	20	4	M16
1	75	65	16	**727 700 212**	1.110	185	145	92	18	20	4	M16
	90	80	16	**727 700 313**	1.390	200	160	108	18	20	8	M16
	110	100	16	**727 700 314**	1.407	220	180	128	18	20	8	M16
	125	100	16	**727 700 315**	1.408	220	180	135	18	20	8	M16
	140	125	16	**727 700 716**	2.318	250	210	158	18	26	8	M16
2	160	150	16	**727 700 717**	3.491	285	240	178	22	26	8	M20
	180	150	16	**727 700 718**	3.108	285	240	188	22	26	8	M20
2	200	200	16	**727 700 719**	5.600	340	295	235	22	29	8	M20
2	225	200	16	**727 700 720**	5.533	340	295	238	22	29	8	M20
	250	250	16	**727 700 721**	6.632	395	350	288	22	32	12	M20
	280	250	16	**727 700 722**	6.573	395	350	294	22	32	12	M20
	315	300	16	**727 700 723**	7.903	445	400	338	22	36	12	M20
	355	350	16	**727 700 724**	14.587	515	460	376	23	42	16	M20
	400	400	16	**727 700 725**	20.034	574	515	430	26	42	16	M24







Backing flange PP-Steel metric
For socket systems metric and BS

Model:

- **Bolt circle PN 10**
- PP-GF (30% glass-fibre reinforced) with steel ring
- UV-resistant. Applicable for outside applications
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

AL: number of holes

[1]) Suitable for socket -and butt fusion systems

[2]) Not for BS

[3]) Connecting dimension: ISO 2536. bolt circle acc. DN125. suitable for flange adaptor d125/ DN100

[4]) Connecting dimension: ISO 2536. bolt circle acc. DN225. suitable for flange adaptor d250/ DN250

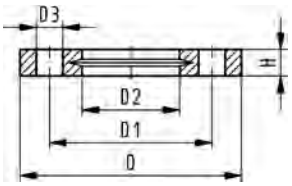
[5]) Combined version, bolt circle metric - ANSI

	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D1 (mm)	D3 (mm)	D2 (mm)	D (mm)	H max. (mm)	AL
1	20	15	16	**727 700 206**	0.216	65	14	28	95	12	4
1	25	20	16	**727 700 207**	0.279	75	14	34	105	12	4
1	32	25	16	**727 700 208**	0.429	85	14	42	115	16	4
1	40	32	16	**727 700 209**	0.621	100	18	51	140	16	4
1	50	40	16	**727 700 210**	0.722	110	18	62	150	20	4
1	63	50	16	**727 700 211**	0.900	125	18	78	165	20	4
1	75	65	16	**727 700 212**	1.110	145	18	92	185	20	4
	90	80	16	**727 700 213**	1.369	160	18	110	200	20	8
2	110	100	16	**727 700 214**	1.522	180	18	133	220	20	8
2	125	125	16	**727 700 815**	2.475	210	18	150	250	26	8
	140	125	16	**727 700 816**	2.033	210	18	167	250	26	8
2/5	160	150	16	**727 700 817**	3.167	240	22	190	285	26	8
5	200	200	16	**727 700 819**	6.143	295	22	226	340	29	8
5	225	200	16	**727 700 820**	4.448	295	22	250	340	29	8
	250	250	16	**727 700 821**	7.179	350	22	277	395	32	12
4	250	225	16	**727 700 031**	8.340	325	22	277	395	32	8
	280	250	16	**727 700 822**	5.547	350	22	310	395	32	12
	315	300	16	**727 700 823**	6.980	400	22	348	445	36	12
	355	350	16	**727 700 824**	12.465	460	23	388	515	42	16
	400	400	16	**727 700 825**	17.607	515	26	442	574	42	16

Backing flanges PP-V







Backing flange PP-V metric
For butt fusion systems metric

Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

AL: number of holes

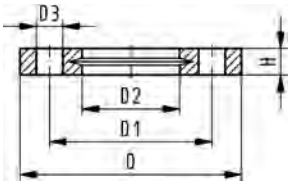
[1]) Suitable for socket- and butt fusion systems

[2]) Combined version, metric-ANSI

	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	20	15	16	**727 700 406**	0.093	95	65	28	14	16	4	M12
1	25	20	16	**727 700 407**	0.120	105	75	34	14	17	4	M12
1	32	25	16	**727 700 408**	0.151	115	85	42	14	18	4	M12
1	40	32	16	**727 700 409**	0.244	140	100	51	18	20	4	M16
1	50	40	16	**727 700 410**	0.297	150	110	62	18	22	4	M16
1	63	50	16	**727 700 411**	0.362	165	125	78	18	24	4	M16
1	75	65	16	**727 700 412**	0.487	185	145	92	18	26	4	M16
	90	80	16	**727 700 513**	0.544	200	160	108	18	27	8	M16
	110	100	16	**727 700 514**	0.643	220	180	128	18	28	8	M16
	125	100	16	**727 700 515**	0.635	220	180	135	18	28	8	M16
	140	125	16	**727 700 516**	0.842	250	210	158	18	30	8	M16
2	160	150	16	**727 700 517**	1.200	285	240	178	22	32	8	M20
	180	150	16	**727 700 518**	1.200	285	240	188	22	32	8	M20
2	200	200	16	**727 700 519**	1.400	340	295	235	22	34	8	M20
2	225	200	16	**727 700 520**	1.400	340	295	238	22	34	8	M20
	250	250	10	**727 700 521**	2.052	395	350	288	22	38	12	M20
	280	250	10	**727 700 522**	1.700	395	350	294	22	38	12	M20
	315	300	10	**727 700 523**	2.400	445	400	338	22	42	12	M20
	355	350	10	**727 700 524**	4.440	515	460	376	22	46	16	M20
	400	400	10	**727 700 525**	5.624	574	515	430	26	50	16	M24







Backing flange PP-V metric
For socket systems metric and BS

Model:

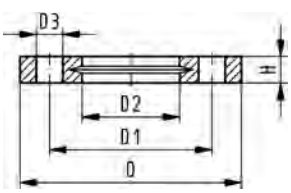
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**
- Full-plastic flange PP-GF (30 % glass-fibre reinforced)

[1]) Suitable for socket- and butt fusion systems
[2]) Not for BS
[3]) Combined version, metric - ANSI
AL: number of holes

	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	20	15	16	**727 700 406**	0.093	95	65	28	14	16	4	M12
1	25	20	16	**727 700 407**	0.120	105	75	34	14	17	4	M12
1	32	25	16	**727 700 408**	0.151	115	85	42	14	18	4	M12
1	40	32	16	**727 700 409**	0.244	140	100	51	18	20	4	M16
1	50	40	16	**727 700 410**	0.297	150	110	62	18	22	4	M16
1	63	50	16	**727 700 411**	0.362	165	125	78	18	24	4	M16
1	75	65	16	**727 700 412**	0.487	185	145	92	18	26	4	M16
	90	80	16	**727 700 413**	0.550	200	160	110	18	27	8	M16
2	110	100	16	**727 700 414**	0.640	220	180	133	18	28	8	M16
	140	125	16	**727 700 416**	0.781	250	210	167	18	30	8	M16
2/3	160	150	16	**727 700 417**	1.050	285	240	190	22	32	8	M20
3	200	200	16	**727 700 419**	1.629	340	295	226	22	34	8	M20
3	225	200	16	**727 700 420**	1.400	340	295	250	22	34	8	M20
	250	250	10	**727 700 421**	2.229	395	350	277	22	38	12	M20
	280	250	10	**727 700 422**	1.651	395	350	310	22	38	12	M20
	315	300	10	**727 700 423**	2.461	445	400	348	22	42	12	M20
	355	350	10	**727 700 424**	3.000	515	460	388	22	46	16	M20
	400	400	10	**727 700 425**	5.135	574	515	442	26	50	16	M24







Backing flange PP-V Inch ANSI
For butt fusion systems metric

Model:

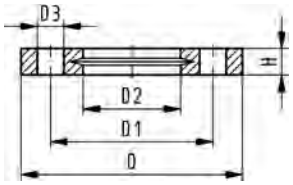
- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes
[1]) Suitable for socket- and butt fusion systems
[2]) Combined version, metric-ANSI

	Size (inch)	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	½	20	15	16	**727 701 406**	0.091	95	60	28	16	16	4	M12
1	¾	25	20	16	**727 701 407**	0.120	105	70	34	16	17	4	M12
1	1	32	25	16	**727 701 408**	0.147	115	79	42	16	18	4	M12
1	1 ¼	40	32	16	**727 701 409**	0.246	140	89	51	16	20	4	M16
1	1 ½	50	40	16	**727 701 410**	0.299	150	98	62	16	22	4	M16
1	2	63	50	16	**727 701 411**	0.361	165	121	78	19	24	4	M16
1	2 ½	75	65	16	**727 701 412**	0.492	185	140	92	19	26	4	M16
	3	90	80	16	**727 701 513**	0.607	200	152	108	19	27	4	M16
	4	110	100	16	**727 701 514**	0.736	229	190	128	19	28	8	M16
2	6	160	150	16	**727 700 517**	1.200	285	240	178	22	32	8	M20
2	8	200	200	16	**727 700 519**	1.400	340	295	235	22	34	8	M20
2	8	225	200	16	**727 700 520**	1.400	340	295	238	22	34	8	M20
	10	250	250	10	**727 701 521**	2.241	406	362	288	26	38	12	M20
	10	280	250	10	**727 701 522**	2.173	406	362	294	26	38	12	M20
	12	315	300	10	**727 701 523**	3.627	483	432	338	26	42	12	M20







Backing flange PP-V Inch ANSI
For socket systems metric and BS

Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

[1]) Suitable for socket- and butt fusion systems

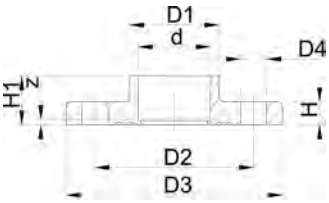
[2]) Not for BS

[3]) Combined version, metric - ANSI

	Size (inch)	DN (mm)	d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
1	½	15	20	16	**727 701 406**	0.091	95	60	28	16	16	4	M12
1	¾	20	25	16	**727 701 407**	0.120	105	70	34	16	17	4	M12
1	1	25	32	16	**727 701 408**	0.147	115	79	42	16	18	4	M12
1	1 ¼	32	40	16	**727 701 409**	0.246	140	89	51	16	20	4	M16
1	1 ½	40	50	16	**727 701 410**	0.299	150	98	62	16	22	4	M16
1	2	50	63	16	**727 701 411**	0.361	165	121	78	19	24	4	M16
1	2 ½	65	75	16	**727 701 412**	0.492	185	140	92	19	26	4	M16
	3	80	90	16	**727 701 413**	0.605	200	152	110	19	27	4	M16
2	4	100	110	16	**727 701 414**	0.704	229	190	133	19	28	8	M16
2/3	6	150	160	16	**727 700 417**	1.050	285	240	190	22	32	8	M20
3	8	200	200	16	**727 700 419**	1.629	340	295	226	22	34	8	M20
3	8	200	225	16	**727 700 420**	1.400	340	295	250	22	34	8	M20
	10	250	280	10	**727 701 422**	1.838	406	362	310	26	38	12	M20
	12	300	315	10	**727 701 423**	3.482	483	432	348	26	42	12	M20

Fixed flanges PVC-U JIS





Fixed flange PVC-U
Jointing face serrated JIS

Model:

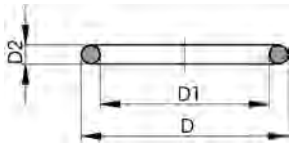
- Solvent cement socket metric
- Connecting dimensions: JIS B 2220, 10K

AL: number of holes

d (mm)	DN (mm)	Inch (inch)	PN (bar)	Code	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	H (mm)	H1 (mm)	z (mm)	AL	SC
25	20	¾	16	**161 481 552**	33	75	100	15	13	22	3	4	M12
32	25	1	16	**161 481 553**	41	90	125	19	15	25	3	4	M12
40	32	1 ¼	16	**161 481 554**	51	100	135	19	17	29	3	4	M16
50	40	1 ½	16	**161 481 555**	62	105	140	19	18	34	3	4	M16
63	50	2	16	**161 481 556**	77	120	155	19	20	41	3	4	M16

Seals





O-Ring gasket

Model:

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

* For unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

	d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	10 - 12	8	**748 410 004**	0.002	**749 410 004**	0.002
	16	10	**748 410 005**	0.004	**749 410 005**	0.002
	20	15	**748 410 006**	0.002	**749 410 006**	0.002
	25	20	**748 410 007**	0.002	**749 410 007**	0.002
	32	25	**748 410 008**	0.003	**749 410 008**	0.002
	40	32	**748 410 009**	0.003	**749 410 009**	0.007
	50	40	**748 410 010**	0.004	**749 410 010**	0.006
	63	50	**748 410 011**	0.005	**749 410 011**	0.003
	75	65	**748 410 014**	0.007	**749 410 014**	0.012
	90	80	**748 410 015**	0.008	**749 410 015**	0.015
*	90	80	**748 410 248**	0.008	**749 410 248**	0.020
	110	100	**748 410 016**	0.016	**749 410 016**	0.031

	d (mm)	DN (mm)	D (mm)	D1 (mm)	D2 (mm)	closest inch (inch)
	10 - 12	8	17.62	12.37	2.62	¼
	16	10	20.78	15.54	2.62	⅜
	20	15	27.28	20.22	3.53	½
	25	20	35.23	28.17	3.53	¾
	32	25	39.99	32.93	3.53	1
	40	32	51.33	40.65	5.34	1 ¼
	50	40	57.68	46.99	5.34	1 ½
	63	50	70.37	59.69	5.34	2
	75	65	92.60	81.92	5.34	2 ½
	90	80	111.68	101.00	5.34	3
*	90	80	105.30	94.62	5.34	3
	110	100	134.00	120.20	6.99	4

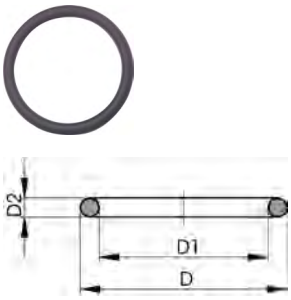


O-Ring gasket

Model:

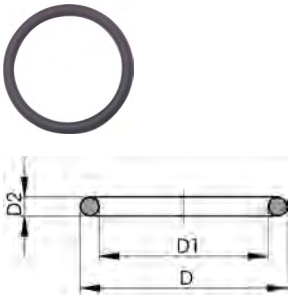
- Suitable for flange adaptor with groove
- Hardness approx. 65° Shore

d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	closest inch (inch)
16	10	**748 410 000**	0.002	**749 410 000**	0.005	25.70	18.64	3.53	⅜
20	15	**748 410 001**	0.002	**749 410 001**	0.002	30.46	23.40	3.53	½
25	20	**748 410 007**	0.002	**749 410 007**	0.002	35.23	28.17	3.53	¾
32	25	**748 410 002**	0.003	**749 410 002**	0.003	43.16	36.10	3.53	1
40	32	**748 410 003**	0.004	**749 410 003**	0.002	54.50	43.82	5.34	1 ¼
50	40	**748 410 012**	0.004	**749 410 012**	0.008	64.02	53.34	5.34	1 ½
63	50	**748 410 013**	0.006	**749 410 013**	0.011	79.90	69.22	5.34	2
75	65	**748 410 014**	0.007	**749 410 014**	0.012	92.60	81.92	5.34	2 ½
90	80	**748 410 015**	0.008	**749 410 015**	0.015	111.68	101.00	5.34	3
110	100	**748 410 016**	0.016	**749 410 016**	0.031	134.00	120.20	6.99	4
125	100	**748 410 017**	0.018	**749 410 017**	0.036	149.90	135.90	6.99	
140	125	**748 410 018**	0.020	**749 410 018**	0.039	165.80	151.80	6.99	5
160	150	**748 410 019**	0.025	**749 410 019**	0.044	184.15	170.17	6.99	6
200	200	**748 410 163**	0.029	**749 410 163**	0.048	235.60	221.60	6.99	8
225	200	**748 410 022**	0.034	**749 410 022**	0.060	254.70	240.70	6.99	8
250	250	**748 410 182**	0.036	**749 410 182**	0.066	280.10	266.10	6.99	9
280	250	**748 410 173**	0.042	**749 410 173**	0.076	305.50	291.50	6.99	10
315	300	**748 410 174**	0.047	**749 410 174**	0.083	356.30	342.30	6.99	12



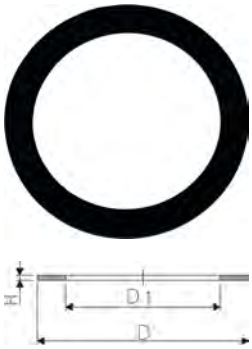
O-Ring gasket
Union end seal

d (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)	D2 (mm)	D1 (mm)	D (mm)
20	**748 410 038**	100	0.003	**749 410 038**	0	0.002	2.00	23	27
25	**748 410 044**	100	0.003	**749 410 044**	0	0.003	2.50	28	33
32	**748 410 195**	0	0.003	**749 410 195**	0	0.003	2.50	36	41
40	**748 410 052**	100	0.005	**749 410 052**	100	0.003	3.50	45	52
50	**748 410 134**	0	0.003	**749 410 134**	0	0.003	3.00	52	58
63	**748 410 135**	0	0.002	**749 410 135**	0	0.003	3.53	66	73



O-Ring gasket

d (mm)	DN (mm)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)
75	65	**748 410 112**	0	0.006	**749 410 119**	0	0.010	83	72	5.33
90	80	**748 410 099**	0	0.009	**749 410 112**	0	0.070	96	85	5.33
110	100				**749 410 099**	0	0.015	118	107	5.33



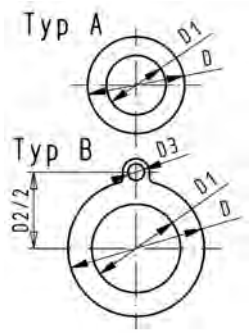
Flat gasket

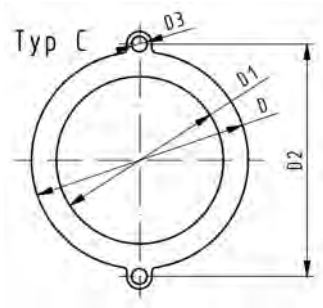
Model:

- Hardness approx. 65° Shore
- For adaptor unions

Size (inch)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)
¼	**748 400 004**	0.002			20	13	2
⅜	**748 400 005**	0.002	**749 400 005**	0.020	24	17	2
½	**748 400 006**	0.002	**749 400 006**	0.003	30	21	3
¾	**748 400 007**	0.003	**749 400 007**	0.004	38	27	3
1	**748 400 008**	0.002	**749 400 008**	0.002	44	32	3
1 ¼	**748 400 009**	0.007	**749 400 009**	0.003	55	42	3
1 ½	**748 400 010**	0.004	**749 400 010**	0.007	62	46	3
2	**748 400 011**	0.005	**749 400 011**	0.006	78	60	3
2 ½	**748 400 012**	0.010	**749 400 012**	0.009	97	75	3
3	**748 400 013**	0.011	**749 400 013**	0.011	109	88	3







Flat gasket
EPDM

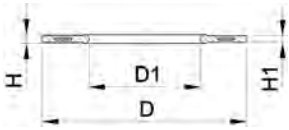
Model:

- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors

d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	di FA (mm)
16	10	10	A	**748 400 305**	0.004	46	16			2	6 - 26
20	15	10	A	**748 400 306**	0.012	51	20			2	10 - 30
25	20	10	A	**748 400 307**	0.004	61	25			2	15 - 35
32	25	10	A	**748 400 308**	0.008	71	32			2	22 - 42
40	32	10	A	**748 400 309**	0.013	82	40			3	30 - 50
50	40	10	A	**748 400 310**	0.016	92	50			3	40 - 60
63	50	10	A	**748 400 311**	0.018	107	63			3	53 - 73
75	65	10	A	**748 400 312**	0.029	127	71			3	61 - 81
90	80	10	A	**748 400 313**	0.035	142	84			3	74 - 94
110	100	10	B	**748 400 314**	0.051	162	104	180	18	4	94 - 114
125	100	10	B	**748 400 315**	0.044	162	119	180	18	4	109 - 129
140	125	10	B	**748 400 316**	0.068	192	134	210	18	4	124 - 144
160 - 180	150	10	B	**748 400 317**	0.090	218	155	241	22	4	145 - 165
200	200	6	C	**748 400 319**	0.180	273	195	295	22	5	185 - 205
225	200	6	C	**748 400 320**	0.140	273	216	295	22	5	206 - 226
250	250	6	C	**748 400 321**	0.210	328	250	350	22	5	240 - 260
280	250	6	C	**748 400 322**	0.151	328	273	350	22	5	263 - 283
315	300	6	C	**748 400 323**	0.237	378	305	400	22	5	295 - 315





Profile flange gasket metric
NBR

Model:

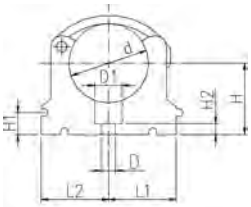
- NBR = Nitrile rubber, hardness approx. 80° Shore
- For all metric GF Flange Adaptors
- Rubber-steel body combined with rubber profile cord ring
- Approved acc. to DVGW standard DIN EN 682 for gas
- D corresponds to the centring at the inner diameter of the screw crown

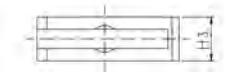
d (mm)	DN (mm)	PN (bar)	NBR Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	di FA (mm)
20	15	16	**745 440 706**	0.009	51	20	4	3	10 - 20
25	20	16	**745 440 707**	0.012	61	22	4	3	12 - 22
32	25	16	**745 440 708**	0.018	71	28	4	3	18 - 28
40	32	16	**745 440 709**	0.021	82	40	4	3	30 - 40
50	40	16	**745 440 710**	0.029	92	46	4	3	36 - 46
63	50	16	**745 440 711**	0.039	107	58	5	4	48 - 58
75	65	16	**745 440 712**	0.058	127	69	5	4	59 - 69
90	80	16	**745 440 713**	0.063	142	84	5	4	73 - 84
110	100	16	**745 440 714**	0.096	162	104	6	5	94 - 104
125	100	16	**745 440 715**	0.073	162	123	6	5	113 - 123
140	125	16	**745 440 716**	0.128	192	137	6	5	127 - 137
160 - 180	150	16	**745 440 717**	0.145	218	160	8	6	150 - 160
200	200	16	**745 440 719**	0.286	273	203	8	6	192 - 203
225	200	16	**745 440 720**	0.183	273	220	8	6	207 - 220
250	250	16	**745 440 721**	0.355	328	252	8	6	238 - 252
280	250	16	**745 440 722**	0.229	328	274	8	6	264 - 274
315	300	16	**745 440 723**	0.419	378	306	8	6	296 - 306
355	350	16	**745 440 724**	0.645	438	355	10	7	340 - 355
400	400	16	**745 440 725**	0.819	489	400	10	7	385 - 400
450	500	16	**745 440 726**	1.885	594	403	10	7	393 - 403
500	500	16	**745 440 727**	1.618	594	447	10	7	437 - 447
560	600	16	**745 440 728**	2.281	695	494	10	7	484 - 494
630	600	16	**745 440 729**	2.000	695	555	10	7	545 - 555

Pipe clips metric









KLIP-IT pipe clip type 061 PP metric

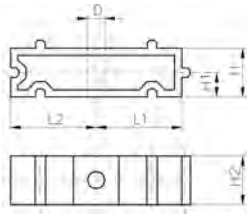
Model:

- Material: clip and safety clip PP black, UV resistant
- d16 - d63: height designed for ball valve type 546 and 543
- **Minimum order quantity: standard packagings SP**

	d (mm)	d (inch)	Code	SP	Weight (kg)
*	10		**167 061 003**	10	0.003
*	12		**167 061 004**	10	0.003
*	16		**167 061 035**	10	0.007
*	20		**167 061 036**	10	0.007
*	25		**167 061 037**	10	0.009
*	32		**167 061 038**	10	0.012
	40		**167 061 039**	10	0.027
	50		**167 061 040**	10	0.031
	63		**167 061 041**	10	0.052
	75	2 ½	**167 061 012**	10	0.057
	90	3	**167 061 013**	10	0.092
	110	4	**167 061 014**	10	0.117
	125		**167 061 015**	10	0.180
	140	5	**167 061 016**	10	0.224
	160		**167 061 017**	10	0.242

	d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	SC	closest inch (inch)
*	10	5	8	20	10	6	12	11	14	M4	⅛
*	12	5	8	21	10	6	12	11	14	M5	¼
*	16	6	11	27	10	6	16	14	17	M5	⅜
*	20	6	11	27	10	6	16	17	19	M5	½
*	25	6	11	30	10	6	16	19	22	M5	¾
*	32	6	11	36	10	6	16	24	27	M5	1
	40	7	14	44	10	7	22	34	34	M6	1 ¼
	50	7	14	51	10	7	22	37	37	M6	1 ½
	63	9	17	64	10	10	25	45	45	M8	2
	75	9	17	58	10	10	25	52	52	M8	2 ½
	90	9	17	65	10	10	28	65	65	M8	3
	110	9	17	75	10	10	28	79	79	M8	4
	125	9	17	90	10	10	32	88	88	M8	
	140	9	17	110	10	10	32	98	98	M8	5
	160	9	17	108	10	10	32	109	109	M8	6





KLIP-IT spacer type 061 PP

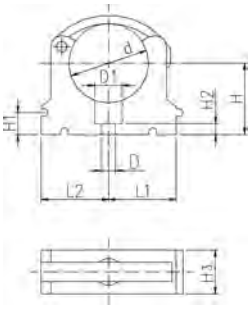
Model:

- For pipe clips type 061/061H, PP black, UV resistant
- **Minimum order quantity: standard packaging SP**

d (mm)	Inch (inch)	Code	SP	Weight (kg)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC
10 - 12	⅛ - ¼	**167 061 153**	10	0.003	5	11	14	20	10	12	M4
16	⅜	**167 061 155**	10	0.005	6	14	17	20	10	16	M5
20	½	**167 061 156**	10	0.005	6	17	19	20	10	16	M5
25	¾	**167 061 157**	10	0.007	6	19	22	20	10	16	M5
32	1	**167 061 158**	10	0.006	6	24	27	20	10	16	M5
40	1 ¼	**167 061 159**	1	0.015	7	34	34	20	10	22	M6
50	1 ½	**167 061 160**	10	0.017	7	37	37	20	10	22	M6
63	2	**167 061 161**	10	0.020	9	45	45	20	10	25	M8
75	2 ½	**167 061 162**	10	0.027	9	52	52	20	10	25	M8
90	3	**167 061 163**	10	0.039	9	65	65	20	10	28	M8
110	4	**167 061 164**	10	0.048	9	79	79	20	10	28	M8
125	4 ½	**167 061 165**	10	0.059	9	88	88	20	10	32	M8
140	5	**167 061 166**	10	0.065	9	98	98	20	10	32	M8
160	6	**167 061 167**	10	0.071	9	109	109	20	10	32	M8







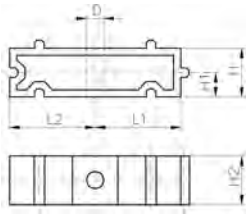
KLIP-IT pipe clip type 061 PE metric

Model:

- Material: clip PE and safety clip PP black, bolts galvanized
- **Minimum order quantity: standard packaging SP**
- Height not designed for ball valve 546 and 543. Please use spacer 73 06 11.

	d (mm)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	SC
*	10	**173 061 003**	10	0.003	5	8	11	14	20	10	6	12	M4
*	12	**173 061 004**	10	0.006	5	8	11	14	21	10	6	12	M5
*	16	**173 061 005**	10	0.006	6	11	14	17	23	10	6	16	M5
*	20	**173 061 006**	10	0.007	6	11	17	19	25	10	6	16	M5
*	25	**173 061 007**	10	0.009	6	11	19	22	28	10	6	16	M5
*	32	**173 061 008**	10	0.011	6	11	24	27	31	10	6	16	M5
	40	**173 061 009**	10	0.026	7	14	34	34	35	10	7	22	M6
	50	**173 061 010**	10	0.028	7	14	37	37	40	10	7	22	M6
	63	**173 061 011**	10	0.047	9	17	45	45	52	10	10	25	M8
	75	**173 061 012**	10	0.061	9	17	52	52	58	10	10	25	M8
	90	**173 061 013**	10	0.098	9	17	65	65	65	10	10	28	M8
	110	**173 061 014**	10	0.125	9	17	79	79	75	10	10	28	M8
	125	**173 061 015**	10	0.194	9	17	88	88	90	10	10	32	M8
	140	**173 061 016**	10	0.243	9	17	98	98	110	10	10	32	M8
	160	**173 061 017**	10	0.254	9	17	109	109	108	10	10	32	M8





KLIP-IT spacer type 061 PE

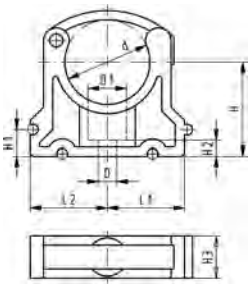
Model:

- **Minimum order quantity: standard packaging SP**
- For pipe clips type 061, PE black, UV resistant

d (mm)	Inch (inch)	Code	SP	Weight (kg)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC
	1/8-1/4	**173 061 153**	10	0.003	5	11	14	20	10	12	M4
16	3/8	**173 061 155**	10	0.005	6	14	17	20	10	16	M5
20	1/2	**173 061 156**	10	0.005	6	17	19	20	10	16	M5
25	3/4	**173 061 157**	10	0.006	6	19	22	20	10	16	M5
32	1	**173 061 158**	10	0.008	6	24	27	20	10	16	M5
40	1 1/4	**173 061 159**	10	0.016	7	34	34	20	10	22	M6
50	1 1/2	**173 061 160**	10	0.017	7	37	37	20	10	22	M6
63	2	**173 061 161**	10	0.025	9	45	45	20	10	25	M8
75	2 1/2	**173 061 162**	10	0.027	9	52	52	20	10	25	M8
90	3	**173 061 163**	10	0.040	9	65	65	20	10	28	M8
110	4	**173 061 164**	10	0.050	9	79	79	20	10	28	M8
125	4 1/2	**173 061 165**	10	0.059	9	88	88	20	10	32	M8
140	5	**173 061 166**	10	0.065	9	98	98	20	10	32	M8
160	6	**173 061 167**	10	0.078	9	109	109	20	10	32	M8







KLIP-IT pipe clip type 061 PP BS/ASTM

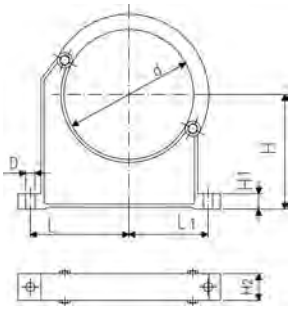
Model:

- For BS/ASTM pipes
- Material: clip and safety clip PP black, UV resistant
- 3/8" - 2": height designed for Ball Valve Type 546 and 543
- **Minimum order quantity: standard packaging SP**

	d (inch)	Code	SP	Weight (kg)
*	¼	**167 061 054**	10	0.003
*	⅜	**167 061 085**	10	0.006
*	½	**167 061 086**	10	0.009
*	¾	**167 061 087**	10	0.007
*	1	**167 061 088**	10	0.012
	1 ¼	**167 061 089**	10	0.025
	1 ½	**167 061 090**	10	0.032
	2	**167 061 091**	10	0.052
	2 ½	**167 061 112**	10	0.062
	3	**167 061 013**	10	0.092
	4	**167 061 114**	10	0.114
	5	**167 061 016**	10	0.224

	d (inch)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	SC	closest inch (inch)
*	¼	5	8	21	10	6	12	11	14	M5	
*	⅜	6	10	27	10	6	16	14	17	M5	
*	½	6	10	27	10	6	16	17	19	M5	
*	¾	6	10	30	10	6	16	19	22	M5	
*	1	6	10	36	10	6	16	24	27	M5	
	1 ¼	7	14	44	10	7	22	34	34	M6	
	1 ½	7	14	51	10	7	22	37	37	M6	
	2	9	17	64	10	10	25	45	45	M8	
	2 ½	9	17	58	10	10	25	52	52	M8	
	3	9	17	65	10	10	28	65	65	M8	3
	4	9	17	81	10	10	28	79	79	M8	
	5	9	17	110	10	10	32	98	98	M8	5





Pipe clip type 060 PP metric

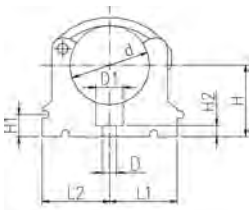
Model:

- Material: clip and safety clip PP black, UV resistant
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Accidental opening of the safety clip is not possible
- Clip and safety clip are not assembled in the packaging.
- Pipes with flanges can be installed directly

d (mm)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC	closest inch (inch)
90	**167 060 038**	10	0.144	9	89	71	105	15	33	M 8	3
110	**167 060 039**	10	0.158	9	94	80	115	15	33	M 8	4
125	**167 060 040**	10	0.249	11	116	91	130	20	35	M10	
140	**167 060 041**	10	0.260	11	121	99	130	20	35	M10	5
160	**167 060 042**	10	0.296	11	131	107	148	20	35	M10	6
180	**167 060 043**	10	0.327	11	143	115	163	20	35	M10	7
200	**167 060 019**	5	0.539	13	152	120	175	25	39	M12	8
225	**167 060 020**	5	0.178	13	164	132	175	25	39	M12	8
250	**167 060 021**	5	0.657	13	183	143	200	25	39	M12	9
280	**167 060 022**	5	0.212	13	197	156	200	25	39	M12	10
315	**167 060 023**	5	0.805	13	219	171	225	25	39	M12	12
355	**167 060 024**	5	1.251	17	275	209	258	30	50	M16	14
400	**167 060 025**	4	1.031	17	300	228	288	30	50	M16	16









KLIP-IT pipe clip type 061 PP metric

Model:

- Material: clip and safety clip PP black, UV resistant
- d16 - d63: height designed for ball valve type 546 and 543
- **Minimum order quantity: standard packagings SP**

	d (mm)	d (inch)	Code	SP	Weight (kg)
*	10		**167 061 003**	10	0.003
*	12		**167 061 004**	10	0.003
*	16		**167 061 035**	10	0.007
*	20		**167 061 036**	10	0.007
*	25		**167 061 037**	10	0.009
*	32		**167 061 038**	10	0.012
	40		**167 061 039**	10	0.027
	50		**167 061 040**	10	0.031
	63		**167 061 041**	10	0.052
	75	2 ½	**167 061 012**	10	0.057
	90	3	**167 061 013**	10	0.092
	110	4	**167 061 014**	10	0.117
	125		**167 061 015**	10	0.180
	140	5	**167 061 016**	10	0.224
	160		**167 061 017**	10	0.242

	d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	SC	closest inch (inch)
*	10	5	8	20	10	6	12	11	14	M4	⅛
*	12	5	8	21	10	6	12	11	14	M5	¼
*	16	6	11	27	10	6	16	14	17	M5	⅜
*	20	6	11	27	10	6	16	17	19	M5	½
*	25	6	11	30	10	6	16	19	22	M5	¾
*	32	6	11	36	10	6	16	24	27	M5	1
	40	7	14	44	10	7	22	34	34	M6	1 ¼
	50	7	14	51	10	7	22	37	37	M6	1 ½
	63	9	17	64	10	10	25	45	45	M8	2
	75	9	17	58	10	10	25	52	52	M8	2 ½
	90	9	17	65	10	10	28	65	65	M8	3
	110	9	17	75	10	10	28	79	79	M8	4
	125	9	17	90	10	10	32	88	88	M8	
	140	9	17	110	10	10	32	98	98	M8	5
	160	9	17	108	10	10	32	109	109	M8	6

SeaDrain® White



Technical Data

Materials
Schedule 40 PPFR

Dimensions range
1½" IPS (50 mm)
2" IPS (63 mm)
2½" IPS (75 mm)
3" IPS (90 mm)
4" IPS (110 mm)
6" IPS (160 mm)

Jointing technology
Electrofusion / Fast-Lock

Operating pressure
Pressure: 35 psi (+2.4 bar)
Vacuum: –29 psi (–2.0 bar)

Operating temperature
0°C to 100°C

Your benefits

- **Corrosion free**
- **No paint option**
- **Multiple jointing technologies**
- **Global acceptance**

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Technical data

Material
- Color: bright white
- Schedule 40 PPFR
- Up to 10-year UV protection
- Laser print stream (non-color)

Size range and fusion types
- 1½" IPS (DN40) – Electrofusion / Fast-Lock
- 2" IPS (DN50) – Electrofusion / Fast-Lock
- 2½" IPS (DN65) – Electrofusion / Fast-Lock
- 3" IPS (DN80) – Electrofusion / Fast-Lock
- 4" IPS (DN100) – Electrofusion / Fast-Lock
- 6" IPS (DN160) – Electrofusion

Temperature rating
- Constant temperature: 180°F (82°C)
- Intermittent temperature: 212°F (100°C)

Pressure / Vacuum rating
- Max Operating: 14.5psi (1.0 bar)
- Long-Term Burst: 36 psi (2.5 bar)
- Short-Term Burst: 58 psi (4.0 bar)
- Vacuum: –29 psi (–2.0 bar)

Standards
- ASTM D635 (HB)
- ASTM F1412
- USPH (with electrofusion joining)

Weight comparison

	Stainless steel black and grey water		SeaDrain White	
Size	**lb / ft**	**kg / m**	**lb / ft**	**kg / m**
1½" IPS (DN40)	0.8	1.3	0.3	0.5
2" IPS (DN50)	1.1	1.6	0.4	0.7
2½" IPS (DN65)	1.3	1.9	0.7	1.0
3" IPS (DN80)	1.4	2.2	0.9	1.4
4" IPS (DN100)	1.9	2.9	1.3	1.9
6" IPS (DN150)	3.7	5.5	2.3	3.4

Maximum horizontal support hanger comparison

	Other plastic black and grey water		SeaDrain White	
Size	**(ft)**	**(m)**	**(ft)**	**(m)**
1½" IPS (DN40)	1.6	0.5	6.6	2.0
2" IPS (DN50)	2.1	0.6	8.2	2.5
2½" IPS (DN65)	2.5	0.8	9.8	3.0
3" IPS (DN80)	3	0.9	9.8	3.0
4" IPS (DN100)	3.6	1.1	9.8	3.0
6" IPS (DN150)	5.2	1.6	9.8	3.0



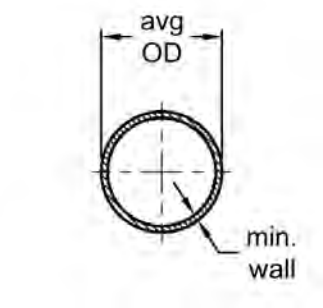
Option 1: Jointing by electrofusion



Option 2: Fast-lock mechanical joining

Pipe

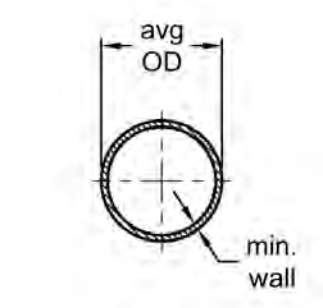




Schedule 40 UV White PPFR x 10ft

Size (inch)	DN (mm)	lengths (ft)	Code	avg. od (inch)	min. wall (inch)	avg. od (mm)	min. wall (mm)	Weight (lbs/ft)	Weight (kg/m)
1 ½	40	10	**37D013015**	1.900	0.145	48.3	3.7	0.33	0.49
2	50	10	**37D013020**	2.375	0.154	60.3	3.9	0.44	0.66
2 ½	65	10	**37D013025**	2.875	0.203	73.0	5.2	0.70	1.04
3	80	10	**37D013030**	3.500	0.216	88.9	5.5	0.91	1.36
4	100	10	**37D013040**	4.500	0.237	114.3	6.0	1.30	1.94
6	150	10	**37D013060**	6.625	0.280	168.3	7.1	2.28	3.41





Schedule 40 UV White PPFR x 20ft

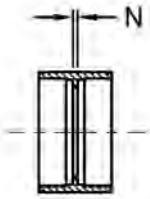
Size (inch)	DN (mm)	lengths (ft)	Code	avg. od (inch)	min. wall (inch)	avg. od (mm)	min. wall (mm)	Weight (lbs/ft)	Weight (kg/m)
1 ½	40	20	**37D023015**	1.900	0.145	48.3	3.7	0.33	0.49
2	50	20	**37D023020**	2.375	0.154	60.3	3.9	0.44	0.66
2 ½	65	20	**37D023025**	2.875	0.203	73.0	5.2	0.70	1.04
3	80	20	**37D023030**	3.500	0.216	88.9	5.5	0.91	1.36
4	100	20	**37D023040**	4.500	0.237	114.3	6.0	1.30	1.94
6	150	20	**37D023060**	6.625	0.280	168.3	7.1	2.28	3.41

Connector Fittings

Coupling (S x S)



Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	N (inch)	N (mm)
1 ½	40	**37D170001**	**378 170 001**	0.06	1.5
2	50	**37D170002**	**378 170 002**	0.06	1.5
2 ½	65	**37D170025**	**378 170 025**	0.13	3.3
3	80	**37D170003**	**378 170 003**	0.13	3.3
4	100	**37D170004**	**378 170 004**	0.13	3.3
6	150	**37D170006**		0.19	4.8

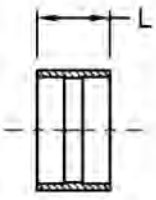


Sleeve Coupling (S x S)

4" & 6" Sleeve Couplings Require Metal Clamps



Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	L (inch)	L (mm)
1 ½	40	**37D170401**	**378 170 401**	1.56	40
2	50	**37D170402**	**378 170 402**	1.81	46
2 ½	65	**37D170425**	**378 170 425**	2.01	51
3	80	**37D170403**	**378 170 403**	2.00	51
4	100	**37D170404**	**378 170 404**	2.00	51
6	150	**37D170406**		2.69	68

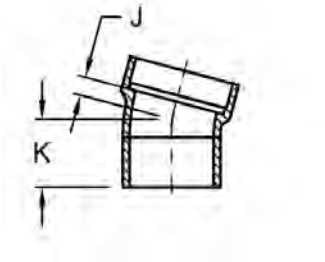


Elbow Fittings



Bend 15° (1/24) - Street (S x SPG)

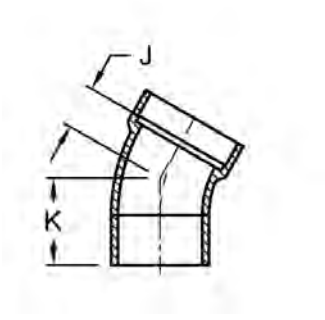
Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	J (inch)	K (inch)	BC (mm)	K (mm)
1 ½	40	**37D169601**	**378 169 601**	0.62	1.51	16	38
2	50	**37D169602**	**378 169 602**	0.63	1.75	16	44
2 ½	65	**37D169625**	**378 169 625**	0.53	2.00	13	50
3	80	**37D169603**	**378 169 603**	0.81	2.12	21	54
4	100	**37D169604**	**378 169 604**	0.88	2.18	22	55
6	150	**37D169606**		0.88	2.37	22	60





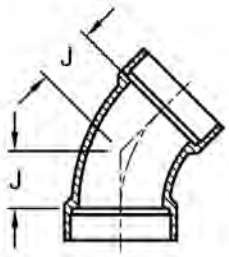
Bend 30° (1/12) - Street (S x SPG)

Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	J (inch)	K (inch)	BC (mm)	K (mm)
1 ½	40	**37D164601**	**378 164 601**	0.75	1.88	19	48
2	50	**37D164602**	**378 164 602**	0.88	2.26	22	57
2 ½	65	**37D164625**	**378 164 625**	1.08	2.56	27	65
3	80	**37D164603**	**378 164 603**	1.25	2.56	32	65
4	100	**37D164604**	**378 164 604**	1.50	2.81	38	71
6	150	**37D164606**		1.66	3.10	42	79



Bend 45° (1/8) (S x S)

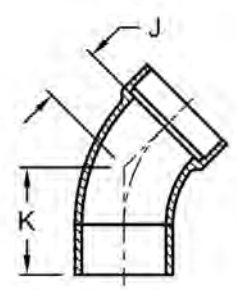




Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	J (inch)	BC (mm)
1 ½	40	**37D165001**	**378 165 001**	1.13	29
2	50	**37D165002**	**378 165 002**	1.50	38
2 ½	65	**37D165025**	**378 165 025**	1.68	43
3	80	**37D165003**	**378 165 003**	1.75	44
4	100	**37D165004**	**378 165 004**	2.19	56
6	150	**37D165006**		3.37	86

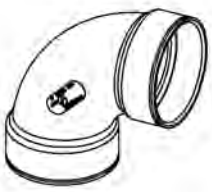
Bend 45° (1/8) - Street (S x SPG)

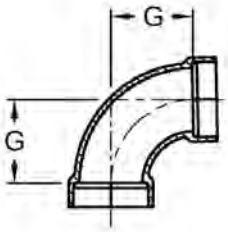




Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	J (inch)	K (inch)	BC (mm)	K (mm)
1 ½	40	**37D164001**	**378 164 001**	1.13	2.44	29	62
2	50	**37D164002**	**378 164 002**	1.50	2.50	38	64
2 ½	65	**37D164025**	**378 164 025**	1.68	3.15	43	80
3	80	**37D164003**	**378 164 003**	1.75	3.25	44	83
4	100	**37D164004**	**378 164 004**	2.19	3.25	56	83
6	150	**37D164006**		3.38	4.75	86	121

Bend 88.8° (1/4) (S x S)

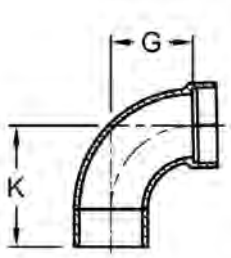




Size (inch)	DN (mm)	Electrofusion Code	G (inch)	G (mm)
1 ½	40	**37D182501**	1.75	44
2	50	**37D182502**	2.31	59
2 ½	65	**37D182525**	3.21	82
3	80	**37D182503**	3.06	78
4	100	**37D182504**	3.88	99
6	150	**37D182506**	5.63	143

Bend 88.8° (1/4) - Street (S x SPG)

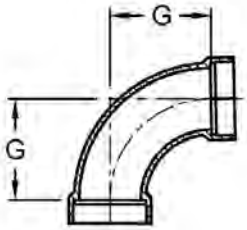




Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	G (inch)	K (inch)	G (mm)	K (mm)
1 ½	40	**37D164501**	**378 164 501**	1.75	3.11	44	79
2	50	**37D164502**	**378 164 502**	2.31	3.70	59	94
2 ½	65	**37D164525**	**378 164 525**	3.21	4.75	82	121
3	80	**37D164503**	**378 164 503**	3.06	4.75	78	121
4	100	**37D164504**	**378 164 504**	3.88	5.38	99	137
6	150	**37D164506**		11.00	10.81	279	275

Bend 88.8° (1/4) - Long Sweep (S x S)

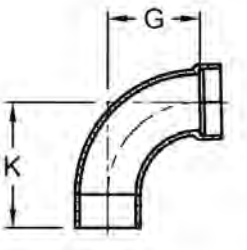




Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	G (inch)	G (mm)
1 ½	40	**37D162701**	**378 162 701**	2.75	70
2	50	**37D162702**	**378 162 702**	3.25	83
3	80	**37D162703**	**378 162 703**	4.06	130
4	100	**37D162704**	**378 162 704**	4.94	125

Bend 88.8° (1/4) - Long Sweep Street (S x SPG)

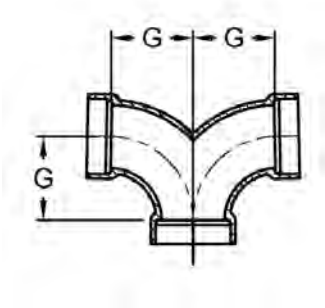




Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	G (inch)	K (inch)	G (mm)	K (mm)
1 ½	40	**37D162901**	**378 162 901**	2.75	4.29	70	109
2 ½	65	**37D162925**	**378 162 925**	4.00	5.53	102	140

Bend 3-Way 88.8° (1/4) (S x S x S)

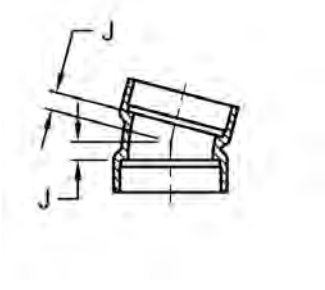




Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	G (inch)	G (mm)
1 ½	40	**37D162601**	**378 162 601**	1.75	44
2	50	**37D162602**	**378 162 602**	2.31	59

Bend 15° (1/24) (S x S)

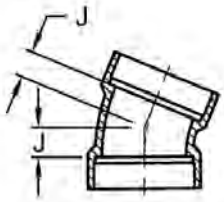




Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	J (inch)	BC (mm)
1 ½	40	**37D169701**	**378 169 701**	0.62	16
2	50	**37D169702**	**378 169 702**	0.63	16
3	80	**37D169703**	**378 169 703**	0.81	21
4	100	**37D169704**	**378 169 704**	0.87	22

Bend 22.5° (1/16) - (S x S)

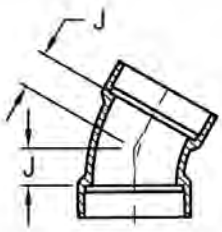




Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	J (inch)	BC (mm)
1 ½	40	**37D165501**	**378 165 501**	0.50	13
2	50	**37D165502**	**378 165 502**	0.69	18
3	80	**37D165503**	**378 165 503**	0.81	21
4	100	**37D165504**	**378 165 504**	1.00	25

Bend 30° (1/12) - (S x S)



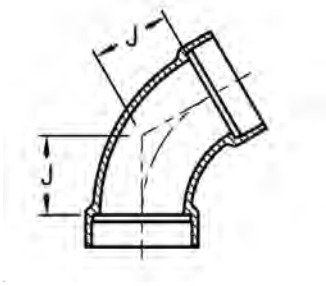


Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	J (inch)	BC (mm)
1 ½	40	**37D169501**	**378 169 501**	0.75	19
2	50	**37D169502**	**378 169 502**	0.88	22
3	80	**37D169503**	**378 169 503**	1.25	32
4	100	**37D169504**	**378 169 504**	1.50	38

Bend 60° (1/6) - (S x S)

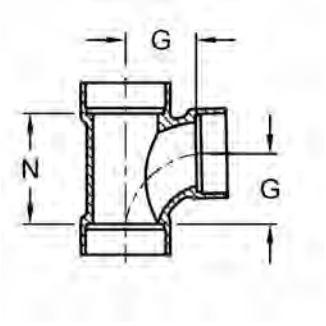


Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	J (inch)	BC (mm)
1 ½	40	**37D166001**	**378 166 001**	1.00	25
2	50	**37D166002**	**378 166 002**	1.31	33
3	80	**37D166003**	**378 166 003**	1.69	43
4	100	**37D166004**	**378 166 004**	2.06	52



Branch Fittings

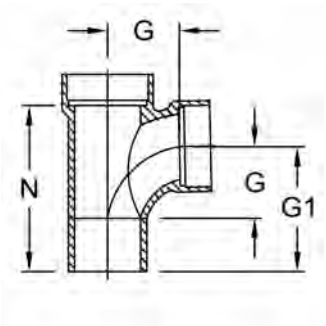




Branch Tee 88.8° (S x S x S)

Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	G (inch)	N (inch)	G (mm)	N (mm)
1 ½	40	**37D161501**	**378 161 501**	1.75	2.75	44	70
2	50	**37D161502**	**378 161 502**	2.31	3.69	59	94
3	80	**37D161503**	**378 161 503**	3.06	4.88	78	124
4	100	**37D161504**	**378 161 504**	3.88	6.13	99	156





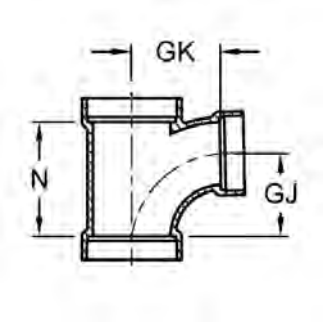
Branch Tee 88.8° - Street (S x S x SPG)

Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	G (inch)	N (inch)	G (mm)	N (mm)
1 ½	40	**37D161601**	**378 161 601**	1.75	2.75	44	70
2 ½	65	**37D161625**	**378 161 625**	2.56	3.99	65	101
3	80	**37D161603**	**378 161 603**	3.02	4.93	77	125
4	100	**37D161604**	**378 161 604**	3.87	6.19	98	157

Reducing Branch Tee 88.8° (S x S x S)



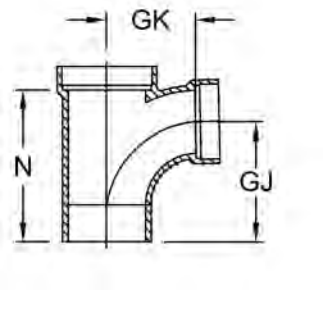
Inch (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	GJ (inch)	GK (inch)	N (inch)	GJ (mm)	GK (mm)	N (mm)
2 x 1 1/2	50 x 40	**37D161530**	**378 161 530**	1.96	2.21	3.17	50	56	81
3 x 1 1/2	80 x 40	**37D161531**	**378 161 531**	1.75	2.56	2.68	44	65	68
3 x 2	80 x 50	**37D161532**	**378 161 532**	2.13	2.88	3.31	54	73	84
4 x 2	100 x 50	**37D161534**	**378 161 534**	2.06	3.31	3.19	52	84	81
4 x 3	100 x 80	**37D161535**	**378 161 535**	3.00	3.56	4.75	76	90	121
6 x 4	150 x 100	**37D161539**		3.93	4.90	6.13	100	124	156



Reducing Branch Tee 88.8° - Street (S x S x SPG)



Inch (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	GJ (inch)	GK (inch)	N (inch)	GJ (mm)	GK (mm)	N (mm)
2 1/2 x 1 1/2	65 x 40	**37D161628**	**378 161 628**	2.50	2.27	3.55	64	58	90
3 x 1 1/2	80 x 40	**37D161631**	**378 161 631**	1.75	2.62	2.69	44	67	68
3 x 2 1/2	80 x 65	**37D161629**	**378 161 629**	2.50	2.56	4.04	64	65	103
4 x 1 1/2	100 x 40	**37D161633**	**378 161 633**	2.00	3.02	3.06	51	77	78
4 x 2 1/2	100 x 65	**37D161627**	**378 161 627**	2.50	3.06	4.10	64	78	104
4 x 3	100 x 80	**37D161635**	**378 161 635**	3.00	3.56	4.87	76	90	124

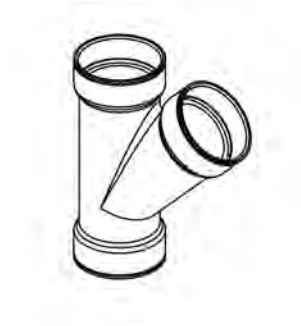


Double Reducing Branch Tee 88.8° - Street (S x S x S x SPG)

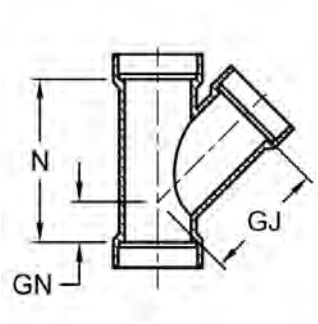


Inch (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	GJ (inch)	GK (inch)	N (inch)	GJ (mm)	GK (mm)	N (mm)
1 1/2 x 1 1/2	40 x 40	**37D161701**	**378 161 701**	1.75	2.62	2.69	44	67	68
2 1/2 x 1 1/2	65 x 40	**37D161728**	**378 161 728**	2.50	2.27	3.55	64	58	90
4 x 1 1/2	100 x 40	**37D161733**	**378 161 733**	2.00	3.02	3.06	51	77	78

Branch Wye 45° (S x S x S)



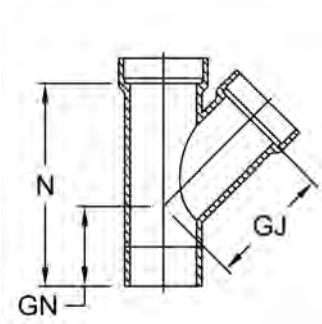
Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	GJ (inch)	GN (inch)	N (inch)	GJ (mm)	GN (mm)	N (mm)
1 ½	40	**37D163001**	**378 163 001**	2.88	1.13	4.00	73	29	102
2	50	**37D163002**	**378 163 002**	3.63	1.38	5.00	92	35	127
3	80	**37D163003**	**378 163 003**	5.00	1.63	6.63	127	41	168
4	100	**37D163004**	**378 163 004**	6.38	1.88	8.25	162	48	210
6	150	**37D163006**	**378 163 006**	9.13	1.63	10.75	232	41	273



Branch Wye 45° - Street (S x S x SPG)



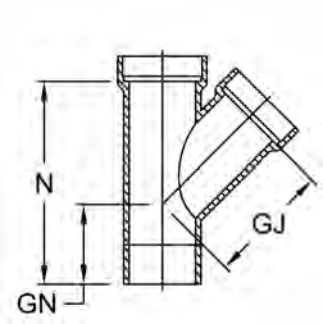
Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	GJ (inch)	GN (inch)	N (inch)	GJ (mm)	GN (mm)	N (mm)
1 ½	40	**37D163101**	**378 163 101**	2.88	1.13	4.00	73	29	102
2 ½	50	**37D163125**	**378 163 125**	4.56	1.50	6.06	116	38	154
3	80	**37D163103**	**378 163 103**	5.00	1.63	6.63	127	41	168
4	100	**37D163104**	**378 163 104**	6.38	1.88	8.25	162	48	210
6	150	**37D163106**		9.13	1.63	10.75	232	41	273





Reducing Branch Wye 45° - Street (S x S x SPG)

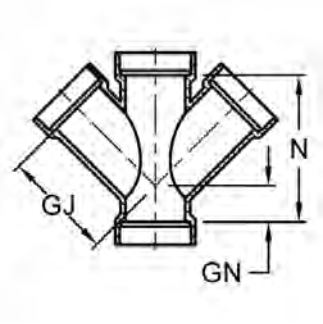
Inch (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	GJ (inch)	GN (inch)	N (inch)	GJ (mm)	GN (mm)	N (mm)
2 1/2 x 1 1/2	65 x 40	**37D163128**	**378 163 128**	3.65	1.50	4.92	93	38	125
3 x 1 1/2	80 x 40	**37D163131**	**378 163 131**	4.09	1.63	5.51	104	41	140
3 x 2 1/2	80 x 65	**37D163129**	**378 163 129**	5.00	1.73	6.63	127	44	168
4 x 1 1/2	100 x 40	**37D163133**	**378 163 133**	5.00	1.50	6.15	127	38	156
4 x 2 1/2	100 x 65	**37D163127**	**378 163 127**	5.62	1.50	6.87	143	38	175
4 x 3	100 x 80	**37D163135**	**378 163 135**	6.00	1.06	6.87	152	27	175
6 x 4	150 x 100	**37D163139**		8.50	0.68	8.73	216	17	222



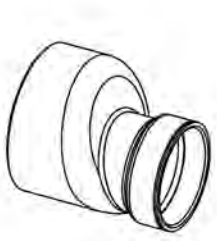


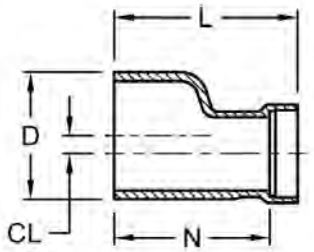
Double Branch Wye 45° (S x S x S x S)

Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	GJ (inch)	GN (inch)	N (inch)	GJ (mm)	GN (mm)	N (mm)
1 ½	40	**37D163501**	**378 163 501**	3.50	1.13	4.63	89	29	118
2	50	**37D163502**	**378 163 502**	4.00	1.38	5.38	102	35	137
2 ½	65	**37D163525**	**378 163 525**	4.56	1.50	6.06	116	38	154
3	80	**37D163503**	**378 163 503**	5.00	1.63	7.63	127	41	194
4	100	**37D163504**	**378 163 504**	6.38	1.88	9.25	162	48	235



Reducer Fittings





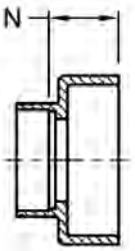
Eccentric Pipe Increaser - Street (SPG x S)

Inch (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code
2 x 1 1/2	50 x 40	**37D171030**	**378 171 030**
2 1/2 x 1 1/2	65 x 40	**37D171028**	**378 171 028**
2 1/2 x 2	65 x 50	**37D171021**	**378 171 021**
3 x 1 1/2	80 x 40	**37D171031**	**378 171 031**
3 x 2	80 x 50	**37D171032**	**378 171 032**
3 x 2 1/2	80 x 65	**37D171029**	**378 171 029**
4 x 1 1/2	100 x 40	**37D171033**	**378 171 033**
4 x 2	100 x 50	**37D171034**	**378 171 034**
4 x 2 1/2	100 x 65	**37D171027**	**378 171 027**
4 x 3	100 x 80	**37D171035**	**378 171 035**
6 x 1 1/2	150 x 40	**37D171036**	
6 x 2	150 x 50	**37D171037**	
6 x 2 1/2	150 x 65	**37D171026**	
6 x 3	150 x 80	**37D171038**	
6 x 4	150 x 100	**37D171039**	

D (inch)	L (inch)	N (inch)	CL (inch)	D (mm)	L (mm)	N (mm)	CL (mm)
2.38	3.78	3.02	0.23	61	96	77	6
2.88	3.26	2.50	0.43	73	83	64	11
2.88	4.11	3.17	0.20	73	104	81	5
3.50	3.43	2.67	0.72	89	87	68	18
3.50	4.33	3.39	0.49	89	110	86	12
3.50	3.40	2.46	0.29	89	86	63	7
4.50	3.72	2.96	1.20	114	95	75	31
4.50	4.73	3.79	1.93	114	120	96	49
4.50	3.79	2.85	0.76	114	96	72	19
4.50	3.66	2.72	0.47	114	93	69	12
6.63	4.60	3.87	2.22	168	117	98	56
6.63	5.25	4.31	1.98	168	133	110	50
6.63	4.26	3.32	1.79	168	108	84	46
6.63	4.26	3.32	1.49	168	108	84	38
6.63	4.26	3.32	1.01	168	108	84	26

Reducer Bushing - Street (SPG x S)

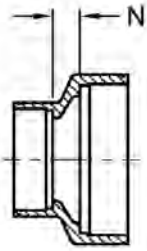




Inch (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	N (inch)	N (mm)
2 x 1 1/2	50 x 40	**37D187530**	**378 187 530**	1.61	41
3 x 1 1/2	80 x 40	**37D187531**	**378 187 531**	1.50	38
3 x 2	80 x 50	**37D187532**	**378 187 532**	1.50	38
4 x 2	100 x 50	**37D187534**	**378 187 534**	1.13	29
4 x 3	100 x 80	**37D187535**	**378 187 535**	1.50	38
6 x 4	150 x 100	**37D187539**		1.28	33

Pipe Increaser (S x S)

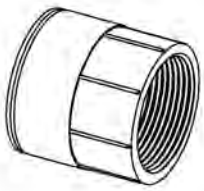


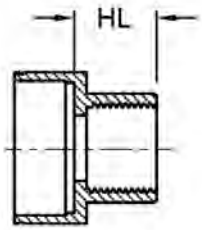


Inch (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	N (inch)	N (mm)
1 1/2 x 2	40 x 50	**37D170230**	**378 170 230**	0.53	14
2 x 3	50 x 80	**37D170232**	**378 170 232**	0.88	22
2 x 4	50 x 100	**37D170234**	**378 170 234**	1.38	35
3 x 4	80 x 100	**37D170235**	**378 170 235**	0.94	24

Adapter Fittings

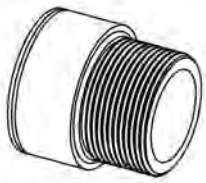
Female Adapter (S x FPT)

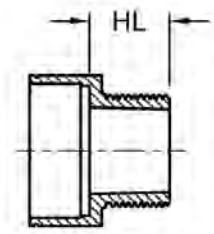




Size (inch)	DN (mm)	NPT (inch)	Electrofusion Code	Fast-Lock Code	HL (inch)	HL (mm)
1 ½	40	1	**37D168923**	**378 168 923**	1.00	25
1 ½	40	1 ¼	**37D168922**	**378 168 922**	1.06	27
1 ½	40	1 ½	**37D168901**	**378 168 901**	1.12	28
1 ½	40	2	**37D168930**	**378 168 930**	1.15	29
2	50	2	**37D168902**	**378 168 902**	1.15	29
3	80	3	**37D168903**	**378 168 903**	1.72	45
4	100	4	**37D168904**	**378 168 904**	1.81	46

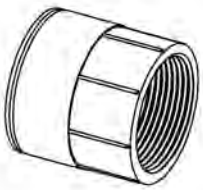
Male Adapter (S x MPT)

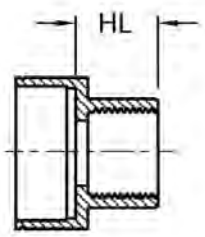




Size (inch)	DN (mm)	NPT (inch)	Electrofusion Code	Fast-Lock Code	HL (inch)	HL (mm)
1 ½	40	1	**37D168723**	**378 168 723**	1.06	27
1 ½	40	1 ¼	**37D168722**	**378 168 722**	1.12	28
1 ½	40	1 ½	**37D168701**	**378 168 701**	1.18	30
1 ½	40	2	**37D168730**	**378 168 730**	1.25	32
2	50	2	**37D168702**	**378 168 702**	1.25	32
3	80	3	**37D168703**	**378 168 703**	1.84	47
4	100	4	**37D168704**	**378 168 704**	2.00	51

Female Adapter (S x BSP)

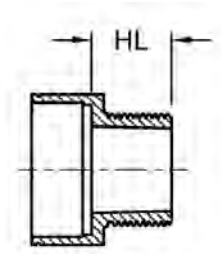




Size (inch)	DN (mm)	Thread BSP (inch)	Electrofusion Code	Fast-Lock Code	HL (inch)	HL (mm)
1 ½	40	1	**37D168123**	**378 168 123**	1.00	25
1 ½	40	1 ¼	**37D168122**	**378 168 122**	1.06	27
1 ½	40	1 ½	**37D168101**	**378 168 101**	1.12	28
1 ½	40	2	**37D168130**	**378 168 130**	1.15	29
2	50	2	**37D168102**	**378 168 102**	1.15	29

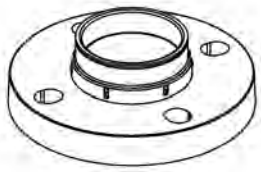
Male Adapter (S x BSP)



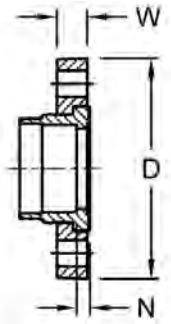


Size (inch)	Nominal Size (mm)	Thread BSP (inch)	Electrofusion Code	Fast-Lock Code	HL (inch)	HL (mm)
1 ½	50	1	**37D168823**	**378 168 823**	1.06	27
1 ½	50	1 ¼	**37D168822**	**378 168 822**	1.12	28
1 ½	50	1 ½	**37D168801**	**378 168 801**	1.25	32
1 ½	50	2	**37D168830**	**378 168 830**	1.18	30
2	63	2	**37D168802**	**378 168 802**	1.25	32

Flange - Van Stone ANSI 150 lb. Pattern (S)

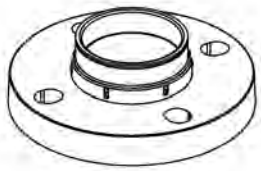


Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code
1 ½	40	**37D169301**	**378 169 301**
2	50	**37D169302**	**378 169 302**
2 ½	65	**37D169325**	**378 169 325**
3	80	**37D169303**	**378 169 303**
4	100	**37D169304**	**378 169 304**
6	150	**37D169306**	

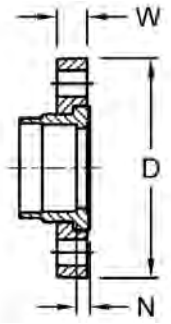


# holes	bout-gat dia. (needs to be deleted) (inch)	bolt cir. dia. (inch)	D (inch)	N (inch)	W (inch)	bolt hole dia. (mm)	bolt circle dia. (mm)	D (mm)	N (mm)	W (mm)
4	0.56	3.88	5.00	0.31	0.75	14	99	127	8	19.1
4	0.68	4.75	6.00	0.34	0.81	17	121	152	9	20.6
4	0.75	5.50	7.28	0.44	1.00	19	140	185	11	25.4
4	0.75	6.00	7.50	0.44	1.00	19	152	191	11	25.4
8	0.75	7.50	9.00	0.42	1.10	19	191	229	11	27.9
8	0.88	9.50	11.00	0.45	1.26	22	241	279	11	32.0

Flange - Van Stone DIN (PN10) (S)

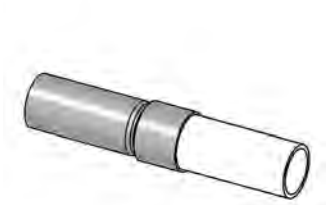


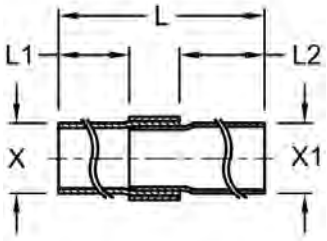
Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code
1 ½	40	**37D167301**	**378 167 301**
2	50	**37D167302**	**378 167 302**
2 ½	65	**37D167325**	**378 167 325**
3	80	**37D167303**	**378 167 303**
4	100	**37D167304**	**378 167 304**
6	150	**37D167306**	



# holes	bout-gat dia. (needs to be deleted) (inch)	bolt cir. dia. (inch)	D (inch)	N (inch)	W (inch)	bolt hole dia. (mm)	bolt circle dia. (mm)	D (mm)	N (mm)	W (mm)
4	0.75	4.30	5.90	0.31	0.75	19	109	150	8	19.1
4	0.75	4.90	6.50	0.34	0.81	19	125	165	9	20.6
4	0.75	5.70	7.30	0.44	1.00	19	145	185	11	25.4
8	0.75	6.30	7.90	0.44	1.00	19	160	201	11	25.4
8	0.75	7.00	8.70	0.42	1.10	19	178	221	11	27.9
8	0.88	9.45	11.25	0.45	1.26	22	240	286	11	32.0

Transition Fittings





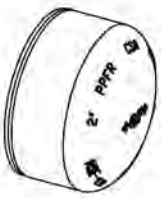
Metal Transition Fitting (Weld x SPG)

Instruments:

- USPH Compliant Transition

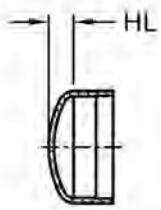
Inch (inch)	DN (mm)	T316SS Code	L (inch)	L1 (inch)	L2 (inch)	X (inch)	X1 (inch)	L (mm)	L1 (mm)	L2 (mm)	X (mm)	X1 (mm)
1 1/2	40	**37D188901**	21.96	10.50	10.00	1.90	1.90	558	267	254	48	48
2	50	**37D188902**	21.96	10.50	10.00	2.38	2.38	558	267	254	61	61
2 1/2	65	**37D188925**	22.13	9.50	10.13	3.50	2.88	562	241	257	89	89
3	80	**37D188903**	22.13	9.50	10.13	3.50	3.50	562	241	257	89	89
4	100	**37D188904**	22.63	9.50	11.50	4.50	4.50	575	241	292	114	114
6	150	**37D188906**	22.63	9.50	11.50	6.63	6.63	575	241	292	168	168

Caps and Access Points



Cap (S)

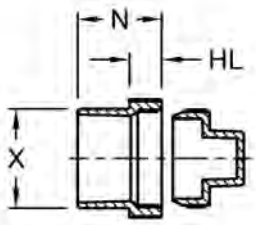
Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	HL (inch)	HL (mm)
1 ½	40	**37D170801**	**378 170 801**	0.32	8
2	50	**37D170802**	**378 170 802**	0.53	14
2 ½	65	**37D170825**	**378 170 825**	0.91	23
3	80	**37D170803**	**378 170 803**	0.91	24
4	100	**37D170804**	**378 170 804**	1.09	28
6	150	**37D170806**		1.56	40



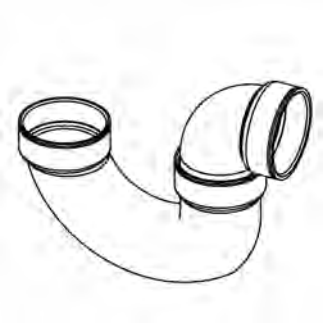


Cleanout Adapter with Plug - Street (SPG x FT)

Size (inch)	DN (mm)	Code	HL (inch)	N (inch)	X (inch)	HL (mm)	N (mm)	X (mm)
1 ½	40	**37D177001**	0.78	2.09	1.90	20	53	48
2	50	**37D177002**	0.78	2.22	2.38	20	56	61
2 ½	65	**37D177025**	0.93	2.37	2.88	24	60	73
3	80	**37D177003**	1.09	2.66	3.50	28	68	89
4	100	**37D177004**	1.13	2.94	4.50	29	75	114
6	150	**37D177006**	1.31	2.63	6.63	33	67	168



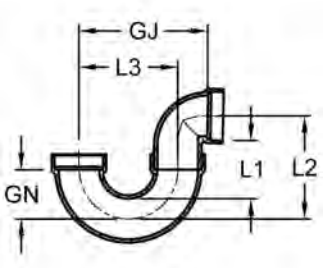
P-Traps



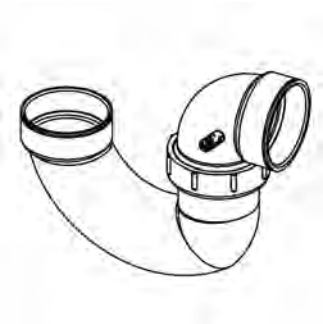
P-Trap (SxS)

1-1/2" - 4" U-Bend Joint must be fused in the field

Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code
1 ½	40	**37D172001**	**378 172 001**
2	50	**37D172002**	**378 172 002**
2 ½	65	**37D172025**	**378 172 025**
3	80	**37D172003**	**378 172 003**
4	100	**37D172004**	**378 172 004**



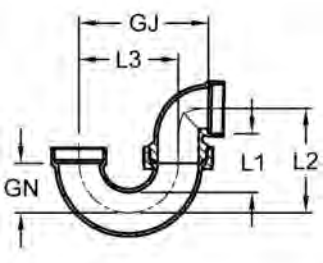
GJ (inch)	GN (inch)	L1 (inch)	L2 (inch)	L3 (inch)	GJ (mm)	GN (mm)	L1 (mm)	L2 (mm)	L3 (mm)
4.71	1.68	2.06	3.64	3.50	120	43	52	93	89
6.94	2.44	2.71	4.75	5.06	176	62	69	121	129
7.82	2.73	3.54	6.01	6.00	199	69	90	153	152
8.88	2.79	3.41	6.43	6.75	226	71	87	163	172
10.75	3.88	3.88	8.06	8.50	273	99	99	205	216



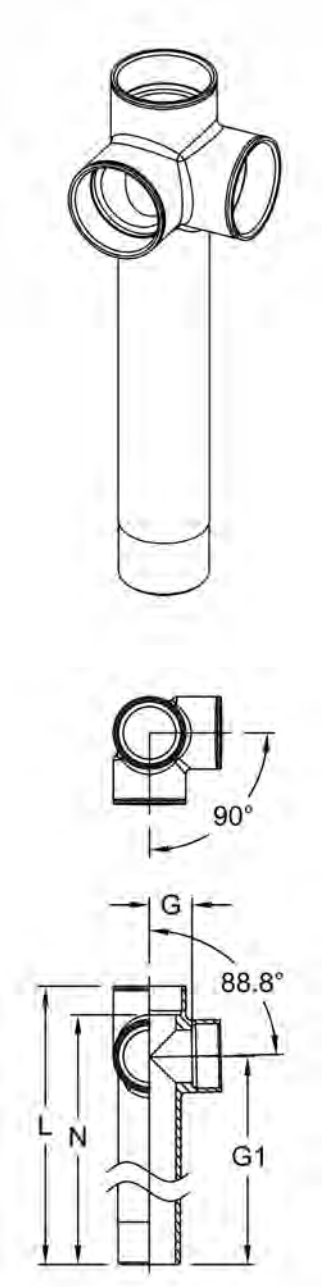
P-Trap with Union Connection (S x S)

Size (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code
1 ½	40	**37D172101**	**378 172 101**

GJ (inch)	GN (inch)	L1 (inch)	L2 (inch)	L3 (inch)	GJ (mm)	GN (mm)	L1 (mm)	L2 (mm)	L3 (mm)
4.84	1.68	2.38	4.00	3.50	123	43	61	102	89



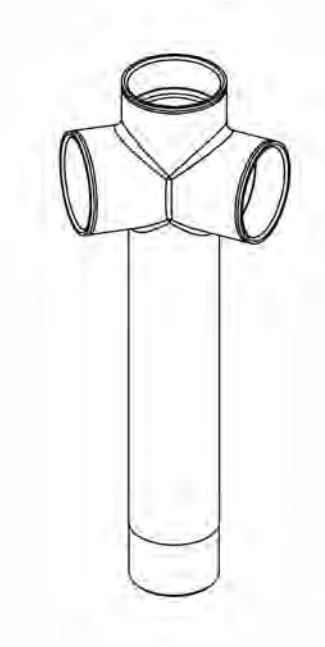
Service Connectors

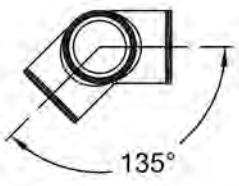


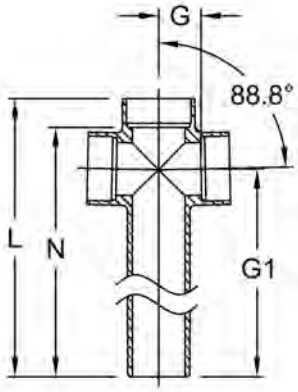
Double Branch Tee 90° Corner Connector - Street (S x S x S x SPG)

Inch (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	G (inch)	N (inch)	L (inch)	G (mm)	N (mm)	L (mm)
1 1/2 x 1 1/2	40 x 40	**37D162201**	**378 162 201**	1.30	1.27	9.27	47	32	236
2 1/2 x 1 1/2	65 x 40	**37D162228**	**378 162 228**	1.84	1.27	9.27	33	32	236

Double Branch Tee 135° Corner Connector - Street (S x S x S x SPG)

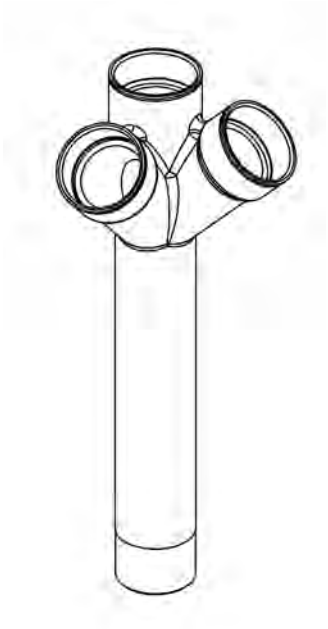


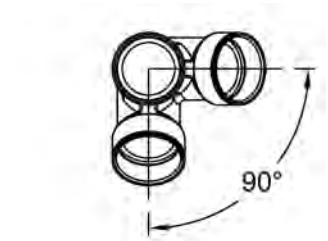


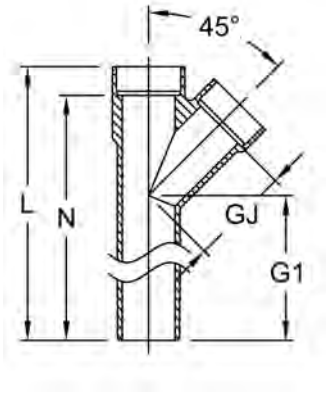


Inch (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	G (inch)	N (inch)	L (inch)	G (mm)	N (mm)	L (mm)
1 1/2 x 1 1/2	40 x 40	**37D162301**	**378 162 301**	1.30	1.27	9.27	33	32	236
2 1/2 x 1 1/2	65 x 40	**37D162328**	**378 162 328**	1.84	1.27	9.27	47	32	236

Double Branch Wye 90° Corner Connector - Street (S x S x S x SPG)







Inch (inch)	DN (mm)	Electrofusion Code	Fast-Lock Code	GJ (inch)	N (inch)	L (inch)	G (mm)	N (mm)	L (mm)
1 1/2 x 1 1/2	40 x 40	**37D162401**	**378 162 401**	3.07	3.07	11.07	33	32	236
2 1/2 x 1 1/2	65 x 40	**37D162428**	**378 162 428**	3.84	3.61	11.61	47	32	236

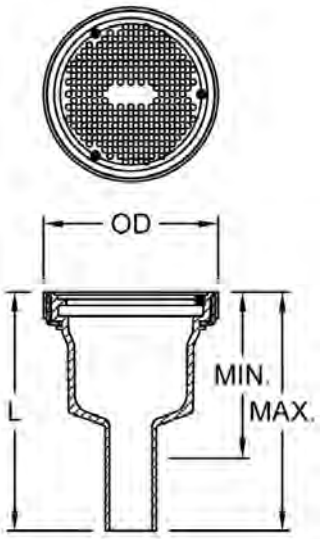
Drains



Drain Scupper (SPG) - Open Deck

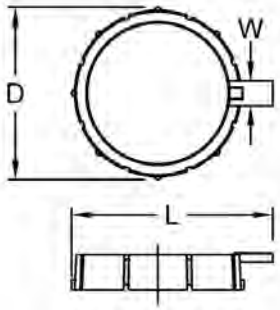
Outlet Size (inch)	DN (mm)	Steel Sleeve Code	T316SS Sleeve Code	Aluminum Sleeve Code
1 ½	40	**37D181101**	**37D181201**	**37D181301**
2 ½	65	**37D181125**	**37D181225**	**37D181325**
4	100	**37D181104**	**37D181204**	**37D181304**

OD (inch)	L (inch)	Min. (inch)	Max. (inch)	OD (mm)	L (mm)	Min. (mm)	Max. (mm)
6.6	9.0	6.4	9.0	168	229	163	229
6.6	9.0	6.4	9.0	168	229	163	229
6.6	9.0	6.4	9.0	168	229	163	229



Accessories





Fusion Locking Collar with Plastic Clamp

6" Fusion Locking Collars without plastic clamp
Le collier de 6" utilise une pièce de serrage en métal# 37Z000600

Size (inch)	Code	Pack Qty	D (inch)	L (inch)	W (inch)	D (mm)	L (mm)	W (mm)
1 ½	**37D162801**	10	2.62	3.17	0.62	66.5	80.5	15.6
2	**37D162802**	10	3.05	3.70	0.62	77.5	93.9	15.6
2 ½	**37D162825**	10	3.61	4.35	0.63	91.7	110.4	15.9
3	**37D162803**	10	4.32	4.86	0.63	109.7	123.4	15.9
4	**37D162804**	10	5.35	6.09	0.63	135.9	154.6	15.9
6	**37D162806**	10	7.46	7.97	0.63	189.5	202.5	15.9



Fast-Lock Mechanical Locking Collar

Size (inch)	Code	Pack Qty
1 ½	**378 160 001**	10
2	**378 160 002**	10
2 ½	**378 160 025**	10
3	**378 160 003**	10
4	**378 160 004**	10



Plastic Clamp

Size (inch)	Code	Pack Qty
1 ½	**37A160601**	10
2	**37A160602**	10
2 ½	**37A160625**	10
3	**37A160603**	10
4	**37A160604**	10

Metal Clamp



Size (inch)	Code	Weight (lb)	Pack Qty
4	**37Z000400**	0.399	1
6	**37Z000600**	0.399	1

Channel Locks



Inch (inch)	Code	Description	Pack Qty
1 1/2, 2, & 3	**37X004817**	440 Channel Locks	1
4	**37X004818**	460 Channel Locks	1

Metal Transition Coupling



Size (inch)	DN-DN (mm)	Code	O.D. (inch)	L (inch)
1 ½	48 - 50	**37D188870**	3	2
1 ½	53 - 55	**37D188800**	3	2
2	53 - 55	**37D188810**	3	2
2	74 - 77	**37D188820**	4	2
3	75 - 76	**37D188830**	4	2
4	102 - 110	**37D188840**	5	2
6	159 - 160	**37D188860**	7	3

UNI-Coupling



Technical Data

Materials
Stainless steel

Approvals
- DNVGL
- LR
- ABS
- DVGW

Your benefits

+ **Leak tight**
+ **Safe**
+ **Quick and easy to install**
+ **Durable**
+ **Fire retardant**
+ **Economical**

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UNI-Coupling type overview

The UNI-Coupling is available in various types.

UNI-Grip
- To connect metal - metal
- For restraint jointing
- With patented wedge shaped seal
- With 2 grip rings for metal pipes
- Stainless steel 1.4571 (W5) quality

UNI-Plastgrip
- To connect plastic - plastic
- For restraint jointing
- With patented wedge shaped seal
- With 2 grip rings for plastic pipes
- Stainless steel 1.4571 (W5) quality

UNI-Combigrip
- To connect metal - plastic
- For restraint jointing
- With patented wedge shaped seal
- With 1 grip ring for metal pipes
- With 1 grip ring for plastic pipes
- Stainless steel 1.4571 (W5) quality

UNI-Flex
- To connect metal - plastic
- To connect metal - metal
- To connect plastic - plastic
- For flexible jointing
- With patented wedge shaped seal
- Stainless steel 1.4571 (W5) quality

UNI-Rep
- To connect metal - plastic
- To connect metal - metal
- To connect plastic - plastic
- For flexible jointing
- With patented wedge shaped seal
- With clamp mechanism for repairing under pressure
- Stainless steel 1.4571 (W5) quality

UNI-Grip / UNI-Plastgrip / UNI-Combigrip



UNI-Flex



UNI-Rep



Seal and Grip Ring



Technical data overview

Type	OD Ø (mm)	Width (mm)	Pressure PN (bar)
 **UNI-Grip**	21 -172	45 - 110	16 to 60
	180 - 745	137/206 other widths on request	2,5 to 25
 **UNI-Plastgrip**	39 -165	60 - 110	16
 **UNI-Combigrip**	39 -165	60 - 110	16
 **UNI-Flex**	21 -172	45 - 110	16 to 25
	180 - 2090	137/206 280/420	2,5 to 25
 **UNI-Rep**	36 -172	60 - 110	16 - 25
	180 - 745	137/206 280/420	2,5 to 25

Wider range	OD Ø (mm)	Number of couplers	Material quality	
UNI-Coupling				
	21 - 47,5	7	standard W5	to 5 mm thickness
	47,5 - 172	15	standard W5	to 5 mm thickness

Connecting	Metal - Metal	Plastic - Plastic	Metal - Plastic	Restrained / Flexible
UNI-Grip	X			restrained
UNI-Plastgrip		X		restrained
UNI-Combigrip			X	restrained
UNI-Flex	X	X	X	flexible
UNI-Rep	X	X	X	flexible

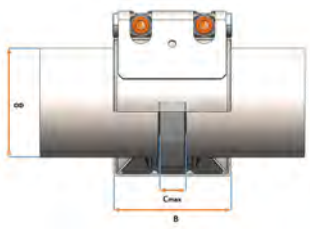
Sealing material	EPDM › 21 - 172 mm	EPDM › 180 mm	NBR	Silicone or Viton
Temperature range	-30 °C - +125 °C	-30 °C - +80 °C	-20 °C - +80 °C	on request
Medium	drinking water, waste water, compressed air, alcohol and solids	drinking water, waste water, compressed air, alcohol and solids	water, gas, oil, fuel, and other hydrocarbons	on request

Quality	Housing	Lock bars	Bolts	Anchoring
W5	1.4571 / 316 Ti	1.4571 / 316 Ti	A4 – 80 / 316 Ti	1.4310 / 301

UNI-Grip







UNI-Grip L PN16

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

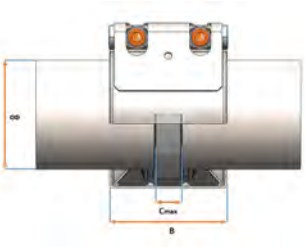
- Sealing type Viton on request

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
21.0 - 24.0	**779 724 001**	0	0.2	**779 721 001**
25.0 - 29.0	**779 724 002**	0	0.2	**779 721 002**
29.0 - 32.0	**779 724 003**	0	0.2	**779 721 003**
33.0 - 36.0	**779 724 004**	0	0.2	**779 721 004**
36.0 - 39.0	**779 724 005**	0	0.4	**779 721 005**
39.0 - 43.0	**779 724 006**	0	0.4	**779 721 006**
43.0 - 47.5	**779 724 007**	0	0.4	**779 721 007**
47.5 - 52.5	**779 724 008**	0	0.4	**779 721 008**
52.5 - 58.0	**779 724 009**	0	0.6	**779 721 009**
58.0 - 64.0	**779 724 010**	0	0.6	**779 721 010**
64.0 - 72.0	**779 724 011**	0	1.4	**779 721 011**
72.0 - 80.0	**779 724 012**	0	1.4	**779 721 012**
80.0 - 88.0	**779 724 013**	0	1.6	**779 721 013**
88.0 - 96.0	**779 724 014**	0	1.6	**779 721 014**
97.0 - 105.0	**779 724 015**	0	1.7	**779 721 015**
104.0 - 112.0	**779 724 016**	0	1.7	**779 721 016**
112.0 - 120.0	**779 724 017**	0	1.9	**779 721 017**
122.0 - 130.0	**779 724 018**	0	1.9	**779 721 018**
129.0 - 137.0	**779 724 019**	0	3.4	**779 721 019**
137.0 - 145.0	**779 724 020**	0	3.5	**779 721 020**
149.0 - 157.0	**779 724 021**	0	3.6	**779 721 021**
157.0 - 165.0	**779 724 022**	0	3.7	**779 721 022**
164.0 - 172.0	**779 724 023**	0	3.8	**779 721 023**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
21.0 - 24.0	M6	16	70	10	21.0	24.0	46	45	76	7
25.0 - 29.0	M6	16	70	10	25.0	29.0	46	45	76	7
29.0 - 32.0	M6	16	70	10	29.0	32.0	54	45	84	7
33.0 - 36.0	M6	16	70	10	33.0	36.0	54	45	84	7
36.0 - 39.0	M8	16	60	15	36.0	39.0	66	60	104	25
39.0 - 43.0	M8	16	50	15	39.0	43.0	66	60	104	25
43.0 - 47.5	M8	16	50	15	43.0	47.5	74	60	112	25
47.5 - 52.5	M8	16	50	15	47.5	52.5	74	60	112	25
52.5 - 58.0	M8	16	50	25	52.5	58.0	85	75	125	25
58.0 - 64.0	M8	16	40	25	58.0	64.0	85	75	125	25
64.0 - 72.0	M10	16	40	30	64.0	72.0	108	95	164	40
72.0 - 80.0	M10	16	40	30	72.0	80.0	108	95	164	40
80.0 - 88.0	M10	16	35	30	80.0	88.0	124	95	170	40
88.0 - 96.0	M10	16	35	30	88.0	96.0	124	95	170	40
97.0 - 105.0	M10	16	35	30	97.0	105.0	141	95	187	40
104.0 - 112.0	M10	16	35	30	104.0	112.0	141	95	187	40
112.0 - 120.0	M10	16	35	30	112.0	120.0	158	95	202	40
122.0 - 130.0	M10	16	32	30	122.0	130.0	158	95	202	40
129.0 - 137.0	M12	16	32	40	129.0	137.0	178	110	230	65

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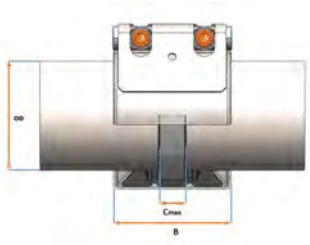




OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
137.0 - 145.0	M12	16	32	40	137.0	145.0	186	110	238	65
149.0 - 157.0	M12	16	32	40	149.0	157.0	197	110	249	65
157.0 - 165.0	M12	16	32	40	157.0	165.0	205	110	255	65
164.0 - 172.0	M12	16	32	40	164.0	172.0	212	110	262	65







UNI-Grip LE PN10

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

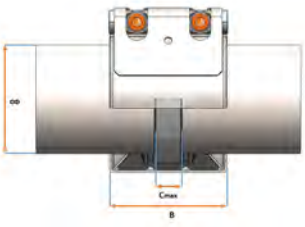
- Sealing type Viton on request

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
64 - 72	**779 724 411**	0	1.0	**779 721 411**
72 - 80	**779 724 412**	0	1.0	**779 721 412**
80 - 88	**779 724 413**	0	1.0	**779 721 413**
88 - 96	**779 724 414**	0	1.0	**779 721 414**
97 - 105	**779 724 415**	0	1.1	**779 721 415**
104 - 112	**779 724 416**	0	1.1	**779 721 416**
112 - 120	**779 724 417**	0	1.2	**779 721 417**
122 - 130	**779 724 418**	0	1.2	**779 721 418**
129 - 137	**779 724 419**	0	2.1	**779 721 419**
137 - 145	**779 724 420**	0	2.2	**779 721 420**
149 - 157	**779 724 421**	0	2.3	**779 721 421**
157 - 165	**779 724 422**	0	2.3	**779 721 422**
164 - 172	**779 724 423**	0	2.4	**779 721 423**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
64 - 72	M10	10	16	30	64	72	108	95	164	40
72 - 80	M10	10	16	30	72	80	108	95	164	40
80 - 88	M10	10	16	30	80	88	124	95	170	40
88 - 96	M10	10	16	30	88	96	124	95	170	40
97 - 105	M10	10	16	30	97	105	141	95	187	40
104 - 112	M10	10	16	30	104	112	141	95	187	40
112 - 120	M10	10	16	30	112	120	158	95	202	40
122 - 130	M10	10	16	30	122	130	158	95	202	40
129 - 137	M12	10	16	40	129	137	178	110	230	65
137 - 145	M12	10	16	40	137	145	186	110	238	65
149 - 157	M12	10	16	40	149	157	197	110	249	65
157 - 165	M12	10	16	40	157	165	205	110	255	65
164 - 172	M12	10	16	40	164	172	212	110	262	65







UNI-Grip S PN16

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

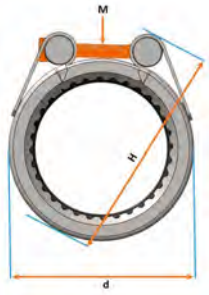
- Sealing type Viton on request

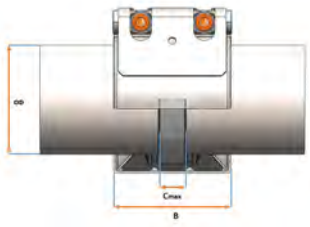
*Restricted working conditions for CuNiFe tubes with a wall thickness ≤ to 4 mm. For pipe dimensions with an asterix, these may only be loaded with max PN 2,5.

	OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
	21.0 - 24.0	**779 764 001**	0	0.2	**779 762 001**
	25.0 - 29.0	**779 764 002**	0	0.2	**779 762 002**
	29.0 - 32.0	**779 764 003**	0	0.2	**779 762 003**
	33.0 - 36.0	**779 764 004**	0	0.2	**779 762 004**
	36.0 - 39.0	**779 764 005**	0	0.4	**779 762 005**
	39.0 - 43.0	**779 764 006**	0	0.4	**779 762 006**
	43.0 - 47.5	**779 764 007**	0	0.4	**779 762 007**
	47.5 - 52.5	**779 764 008**	0	0.4	**779 762 008**
	52.5 - 58.0	**779 764 009**	0	0.6	**779 762 009**
	58.0 - 64.0	**779 764 010**	0	0.6	**779 762 010**
	64.0 - 72.0	**779 764 011**	0	1.4	**779 762 011**
	72.0 - 80.0	**779 764 012**	0	1.4	**779 762 012**
	80.0 - 88.0	**779 764 013**	0	1.6	**779 762 013**
	88.0 - 96.0	**779 764 014**	0	1.6	**779 762 014**
	97.0 - 105.0	**779 764 015**	0	1.7	**779 762 015**
	104.0 - 112.0	**779 764 016**	0	1.7	**779 762 016**
	112.0 - 120.0	**779 764 017**	0	1.9	**779 762 017**
	122.0 - 130.0	**779 764 018**	0	1.9	**779 762 018**
	129.0 - 137.0	**779 764 019**	0	3.4	**779 762 019**
	137.0 - 145.0	**779 764 020**	0	3.5	**779 762 020**
	149.0 - 157.0	**779 764 021**	0	3.6	**779 762 021**
	157.0 - 165.0	**779 764 022**	0	3.7	**779 762 022**
	164.0 - 172.0	**779 764 023**	0	3.8	**779 762 023**
	185.0 - 198.0	**779 764 024**	0	6.5	**779 762 024**
	198.0 - 211.0	**779 764 025**	0	6.7	**779 762 025**
	210.0 - 223.0	**779 764 026**	0	9.2	**779 762 026**
	221.0 - 234.0	**779 764 027**	0	9.5	**779 762 027**
	234.0 - 247.0	**779 764 028**	0	9.8	**779 762 028**
	247.0 - 260.0	**779 764 029**	0	10.1	**779 762 029**
*	263.0 - 276.0	**779 764 030**	0	10.5	**779 762 030**
	277.0 - 290.0	**779 764 031**	0	10.9	**779 762 031**

	OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
	21.0 - 24.0	M6	16	70	10	21.0	24.0	46	45	76	7
	25.0 - 29.0	M6	16	70	10	25.0	29.0	46	45	76	7
	29.0 - 32.0	M6	16	70	10	29.0	32.0	54	45	84	7
	33.0 - 36.0	M6	16	70	10	33.0	36.0	54	45	84	7
	36.0 - 39.0	M8	16	60	15	36.0	39.0	66	60	104	25
	39.0 - 43.0	M8	16	50	15	39.0	43.0	66	60	104	25
	43.0 - 47.5	M8	16	50	15	43.0	47.5	74	60	112	25
	47.5 - 52.5	M8	16	50	15	47.5	52.5	74	60	112	25
	52.5 - 58.0	M8	16	50	25	52.5	58.0	85	75	125	25
	58.0 - 64.0	M8	16	40	25	58.0	64.0	85	75	125	25
	64.0 - 72.0	M10	16	40	30	64.0	72.0	108	95	164	40
	72.0 - 80.0	M10	16	40	30	72.0	80.0	108	95	164	40
	80.0 - 88.0	M10	16	35	30	80.0	88.0	124	95	170	40
	88.0 - 96.0	M10	16	35	30	88.0	96.0	124	95	170	40
	97.0 - 105.0	M10	16	35	30	97.0	105.0	141	95	187	40
	104.0 - 112.0	M10	16	35	30	104.0	112.0	141	95	187	40

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	OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
	112.0 - 120.0	M10	16	35	30	112.0	120.0	158	95	202	40
	122.0 - 130.0	M10	16	32	30	122.0	130.0	158	95	202	40
	129.0 - 137.0	M12	16	32	40	129.0	137.0	178	110	230	65
	137.0 - 145.0	M12	16	32	40	137.0	145.0	186	110	238	65
	149.0 - 157.0	M12	16	32	40	149.0	157.0	197	110	249	65
	157.0 - 165.0	M12	16	32	40	157.0	165.0	205	110	255	65
	164.0 - 172.0	M12	16	32	40	164.0	172.0	212	110	262	65
	185.0 - 198.0	M16	16	25	40	185.0	198.0	236	138	262	160
	198.0 - 211.0	M16	16	25	40	198.0	211.0	249	138	275	160
	210.0 - 223.0	M16	16	25	40	210.0	223.0	261	140	287	160
	221.0 - 234.0	M16	16	25	40	221.0	234.0	272	140	298	160
	234.0 - 247.0	M16	16	25	40	234.0	247.0	285	140	311	160
	247.0 - 260.0	M16	16	25	40	247.0	260.0	298	140	324	160
*	263.0 - 276.0	M16	16	25	40	263.0	276.0	314	140	340	160
	277.0 - 290.0	M16	16	25	40	277.0	290.0	328	142	354	160



UNI-Grip S PN10

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

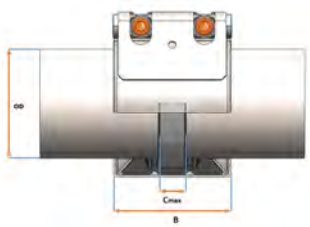
Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request
- *Restricted working conditions for CuNiFe tubes with a wall thickness ≤ to 4 mm. For pipe dimensions with an asterix, these may only be loaded with max PN 2,5.



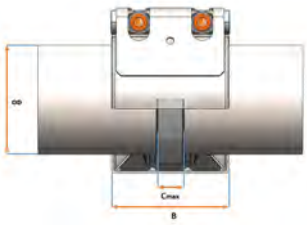


	OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
	210 - 223	**779 764 126**	0	6.9	**779 762 126**
	221 - 234	**779 764 127**	0	7.0	**779 762 127**
	234 - 247	**779 764 128**	0	7.2	**779 762 128**
	247 - 260	**779 764 129**	0	7.5	**779 762 129**
*	263 - 276	**779 764 130**	0	7.7	**779 762 130**
*	277 - 290	**779 764 131**	0	7.9	**779 762 131**
*	288 - 301	**779 764 132**	0	11.1	**779 762 132**
*	301 - 314	**779 764 133**	0	11.5	**779 762 133**
*	315 - 328	**779 764 134**	0	11.8	**779 762 134**
*	327 - 340	**779 764 135**	0	12.1	**779 762 135**
*	340 - 353	**779 764 136**	0	12.4	**779 762 136**
*	350 - 363	**779 764 137**	0	12.7	**779 762 137**
*	361 - 374	**779 764 138**	0	13.0	**779 762 138**

	OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
	210 - 223	M16	10	16	40	210	223	261	138	287	160
	221 - 234	M16	10	16	40	221	234	272	138	298	160
	234 - 247	M16	10	16	40	234	247	285	138	311	160
	247 - 260	M16	10	16	40	247	260	298	138	324	160
*	263 - 276	M16	10	16	40	263	276	314	138	340	160
*	277 - 290	M16	10	16	40	277	290	328	140	354	160
*	288 - 301	M16	10	16	40	288	301	339	140	365	160
*	301 - 314	M16	10	16	40	301	314	352	140	378	160
*	315 - 328	M16	10	16	40	315	328	366	140	392	160

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	OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
*	327 - 340	M16	10	16	40	327	340	378	140	404	160
*	340 - 353	M16	10	16	40	340	353	391	140	417	160
*	350 - 363	M16	10	16	40	350	363	401	140	427	160
*	361 - 374	M16	10	16	40	361	374	412	142	438	160



UNI-Grip S PN6

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

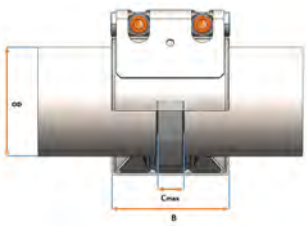
Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

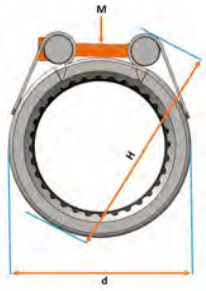
- Sealing type Viton on request
- *Restricted working conditions for CuNiFe tubes with a wall thickness ≤ to 4 mm. For pipe dimensions with an asterix, these may only be loaded with max PN 2,5.

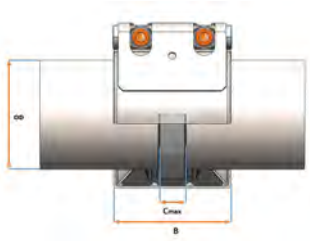




	OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
	185 - 198	**779 764 224**	0	5.4	**779 762 224**
	198 - 211	**779 764 225**	0	5.6	**779 762 225**
	210 - 223	**779 764 226**	0	5.7	**779 762 226**
	221 - 234	**779 764 227**	0	5.9	**779 762 227**
	234 - 247	**779 764 228**	0	6.1	**779 762 228**
	247 - 260	**779 764 229**	0	6.2	**779 762 229**
*	263 - 276	**779 764 230**	0	6.5	**779 762 230**
*	277 - 290	**779 764 231**	0	6.7	**779 762 231**
*	288 - 301	**779 764 232**	0	8.1	**779 762 232**
*	301 - 314	**779 764 233**	0	8.3	**779 762 233**
*	315 - 328	**779 764 234**	0	8.5	**779 762 234**
*	327 - 340	**779 764 235**	0	8.7	**779 762 235**
*	340 - 353	**779 764 236**	0	8.9	**779 762 236**
*	350 - 363	**779 764 237**	0	9.1	**779 762 237**
*	361 - 374	**779 764 238**	0	9.3	**779 762 238**
*	374 - 387	**779 764 239**	0	13.3	**779 762 239**
*	387 - 400	**779 764 240**	0	13.6	**779 762 240**
*	400 - 413	**779 764 241**	0	13.9	**779 762 241**
	412 - 425	**779 764 242**	0	14.2	**779 762 242**
	422 - 435	**779 764 243**	0	14.5	**779 762 243**
	438 - 451	**779 764 244**	0	14.9	**779 762 244**
	451 - 464	**779 764 245**	0	15.2	**779 762 245**
	460 - 473	**779 764 246**	0	15.4	**779 762 246**
	476 - 489	**779 764 247**	0	15.8	**779 762 247**
	488 - 501	**779 764 248**	0	16.1	**779 762 248**
	503 - 516	**779 764 249**	0	16.5	**779 762 249**

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	OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
	185 - 198	M16	6	10	40	185	198	236	138	262	160
	198 - 211	M16	6	10	40	198	211	249	138	275	160
	210 - 223	M16	6	10	40	210	223	261	138	287	160
	221 - 234	M16	6	10	40	221	234	272	138	298	160
	234 - 247	M16	6	10	40	234	247	285	138	311	160
	247 - 260	M16	6	10	40	247	260	298	138	324	160
*	263 - 276	M16	6	10	40	263	276	314	138	340	160
*	277 - 290	M16	6	10	40	277	290	328	140	354	160
*	288 - 301	M16	6	10	40	288	301	339	140	365	160
*	301 - 314	M16	6	10	40	301	314	352	140	378	160
*	315 - 328	M16	6	10	40	315	328	366	140	392	160
*	327 - 340	M16	6	10	40	327	340	378	140	404	160
*	340 - 353	M16	6	10	40	340	353	391	140	417	160
*	350 - 363	M16	6	10	40	350	362	401	140	427	160
*	361 - 374	M16	6	10	40	361	374	412	142	438	160
*	374 - 387	M16	6	10	40	374	387	425	142	451	160
*	387 - 400	M16	6	10	40	387	400	438	142	464	160
*	400 - 413	M16	6	10	40	400	413	451	142	477	160
	412 - 425	M16	6	10	40	412	425	463	138	489	160
	422 - 435	M16	6	10	40	422	435	473	138	499	160
	438 - 451	M16	6	10	40	438	451	489	138	515	160
	451 - 464	M16	6	10	40	451	464	502	138	528	160
	460 - 473	M16	6	10	40	460	473	511	138	537	160
	476 - 489	M16	6	10	40	476	489	527	138	553	160
	488 - 501	M16	6	10	40	488	501	539	138	565	160
	503 - 516	M16	6	10	40	503	516	554	138	580	160



UNI-Grip S PN2.5

Model:

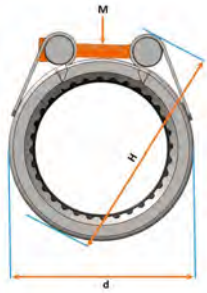
- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

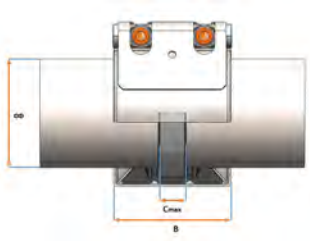
Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

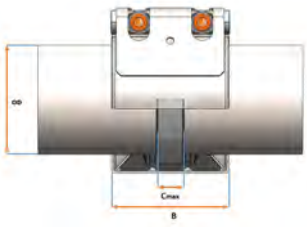




OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
288 - 301	**779 764 332**	0	6.8	**779 762 332**
301 - 314	**779 764 333**	0	7.0	**779 762 333**
315 - 328	**779 764 334**	0	7.2	**779 762 334**
327 - 340	**779 764 335**	0	7.4	**779 762 335**
340 - 353	**779 764 336**	0	7.5	**779 762 336**
350 - 363	**779 764 337**	0	7.7	**779 762 337**
361 - 374	**779 764 338**	0	7.8	**779 762 338**
374 - 387	**779 764 339**	0	9.5	**779 762 339**
387 - 400	**779 764 340**	0	9.7	**779 762 340**
400 - 413	**779 764 341**	0	9.9	**779 762 341**
412 - 425	**779 764 342**	0	10.1	**779 762 342**
422 - 435	**779 764 343**	0	10.3	**779 762 343**
438 - 451	**779 764 344**	0	10.5	**779 762 344**
451 - 464	**779 764 345**	0	10.7	**779 762 345**
460 - 473	**779 764 346**	0	10.9	**779 762 346**
476 - 489	**779 764 347**	0	11.1	**779 762 347**
488 - 501	**779 764 348**	0	11.3	**779 762 348**
503 - 516	**779 764 349**	0	11.6	**779 762 349**
520 - 533	**779 764 350**	0	16.9	**779 762 350**

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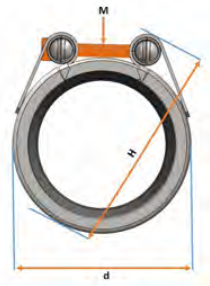


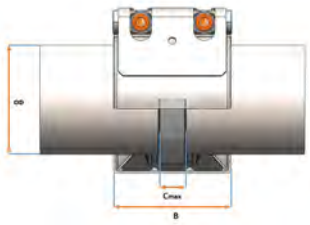
OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
531 - 544	**779 764 351**	0	17.2	**779 762 351**
546 - 559	**779 764 352**	0	17.6	**779 762 352**
557 - 570	**779 764 353**	0	17.9	**779 762 353**
571 - 584	**779 764 354**	0	18.2	**779 762 354**
600 - 613	**779 764 355**	0	18.9	**779 762 355**
610 - 623	**779 764 356**	0	19.2	**779 762 356**
628 - 641	**779 764 357**	0	19.6	**779 762 357**
648 - 661	**779 764 358**	0	20.1	**779 762 358**
676 - 689	**779 764 359**	0	20.8	**779 762 359**
688 - 701	**779 764 360**	0	21.1	**779 762 360**
700 - 713	**779 764 361**	0	21.4	**779 762 361**
717 - 730	**779 764 362**	0	21.9	**779 762 362**
732 - 745	**779 764 363**	0	22.2	**779 762 363**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
288 - 301	M16	2.5	6	40	288	301	339	138	365	160
301 - 314	M16	2.5	6	40	301	314	352	138	378	160
315 - 328	M16	2.5	6	40	315	328	366	138	392	160
327 - 340	M16	2.5	6	40	327	340	378	138	404	160
340 - 353	M16	2.5	6	40	340	353	391	138	417	160
350 - 363	M16	2.5	6	40	350	363	401	138	427	160
361 - 374	M16	2.5	6	40	361	374	412	138	438	160
374 - 387	M16	2.5	6	40	374	387	425	138	451	160
387 - 400	M16	2.5	6	40	387	400	438	138	464	160
400 - 413	M16	2.5	6	40	400	413	451	138	477	160
412 - 425	M16	2.5	6	40	412	425	463	138	489	160
422 - 435	M16	2.5	6	40	422	435	473	138	499	160
438 - 451	M16	2.5	6	40	438	451	489	138	515	160
451 - 464	M16	2.5	6	40	451	464	502	138	528	160
460 - 473	M16	2.5	6	40	460	473	511	138	537	160
476 - 489	M16	2.5	6	40	476	489	527	138	553	160
488 - 501	M16	2.5	6	40	488	501	539	138	565	160
503 - 516	M16	2.5	6	40	503	516	554	138	580	160
520 - 533	M16	2.5	6	40	520	533	575	140	603	160
531 - 544	M16	2.5	6	40	531	544	586	140	614	160
546 - 559	M16	2.5	6	40	546	559	601	140	629	160
557 - 570	M16	2.5	6	40	557	570	612	140	640	160
571 - 584	M16	2.5	6	40	571	584	626	140	654	160
600 - 613	M16	2.5	6	40	600	613	655	140	683	160
610 - 623	M16	2.5	6	40	610	623	665	140	693	160
628 - 641	M16	2.5	6	40	628	641	683	140	711	160
648 - 661	M16	2.5	6	40	648	661	703	140	731	160
676 - 689	M16	2.5	6	40	676	689	731	140	759	160
688 - 701	M16	2.5	6	40	688	701	743	140	771	160
700 - 713	M16	2.5	6	40	700	713	755	140	783	160
717 - 730	M16	2.5	6	40	717	730	772	140	800	160
732 - 745	M16	2.5	6	40	732	745	787	140	815	160

UNI-Plastgrip







UNI-Plastgrip L PN10

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

Remark:

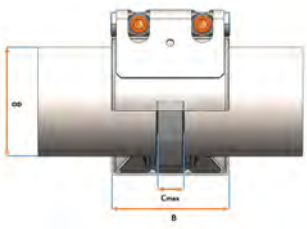
- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
40	**779 732 006**	0	0.4	**779 729 006**
50	**779 732 008**	0	0.5	**779 729 008**
63	**779 732 010**	0	0.6	**779 729 010**
75	**779 732 012**	0	1.4	**779 729 012**
90	**779 732 014**	0	1.5	**779 729 014**
110	**779 732 016**	0	1.7	**779 729 016**
125	**779 732 018**	0	1.8	**779 729 018**
140	**779 732 020**	0	3.5	**779 729 020**
160	**779 732 022**	0	3.7	**779 729 022**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
40	M8	10	16	15	39.0	43.0	66	60	104	25
50	M8	10	16	15	47.5	52.5	74	60	112	25
63	M8	10	16	25	58.0	64.0	85	75	125	25
75	M10	10	16	30	72.0	80.0	108	95	164	40
90	M10	10	16	30	88.0	96.0	124	95	170	40
110	M10	10	16	30	104.0	112.0	141	95	187	40
125	M10	10	16	30	122.0	130.0	158	95	202	40
140	M12	10	16	40	137.0	145.0	186	110	238	65
160	M12	10	16	40	157.0	165.0	205	110	255	65







UNI-Plastgrip S PN10

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

Remark:

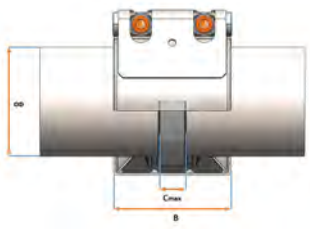
- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
180	**779 712 024**	0	6.0	**779 709 024**
200	**779 712 025**	0	6.6	**779 709 025**
225	**779 712 027**	0	7.0	**779 709 027**
250	**779 712 029**	0	7.5	**779 709 029**
280	**779 712 030**	0	8.7	**779 709 030**
315	**779 712 031**	0	11.1	**779 709 031**
355	**779 712 032**	0	12.2	**779 709 032**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
180	M16	10	16	40	172	185	223	138	259	160
200	M16	10	16	40	195	208	246	138	272	160
225	M16	10	16	40	215	228	272	138	298	160
250	M16	10	16	40	247	260	298	138	324	160
280	M16	10	16	40	269	282	320	142	346	160
315	M16	10	16	40	312	325	363	146	389	160
355	M16	10	16	40	350	363	401	146	427	160







UNI-Plastgrip S/S2 PN6

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

Remark:

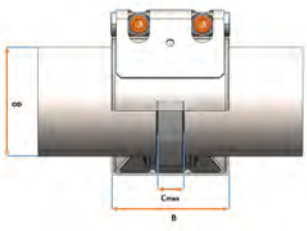
- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
180	**779 742 024**	0	5.0	**779 739 024**
200	**779 742 025**	0	5.4	**779 739 025**
225	**779 742 027**	0	5.8	**779 739 027**
250	**779 742 029**	0	6.5	**779 739 029**
280	**779 742 030**	0	6.9	**779 739 030**
315	**779 742 031**	0	8.6	**779 739 031**
355	**779 742 032**	0	9.5	**779 739 032**
400	**779 742 033**	0	13.5	**779 739 033**
450	**779 742 034**	0	17.5	**779 739 034**
500	**779 742 035**	0	19.3	**779 739 035**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
180	M16	6	10	40	172	185	223	140	259	160
200	M16	6	10	40	195	208	246	140	272	160
225	M16	6	10	40	215	228	272	140	298	160
250	M16	6	10	40	247	260	298	140	324	160
280	M16	6	10	40	269	282	320	140	346	160
315	M16	6	10	40	312	325	363	142	389	160
355	M16	6	10	40	350	363	401	142	427	160
400	M16	6	10	40	395	408	446	146	472	160
450	M16	6	10	40	447	460	498	146	524	160
500	M16	6	10	40	502	515	553	146	579	160







UNI-Plastgrip S/S2/S3/S4 PN2.5

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

Remark:

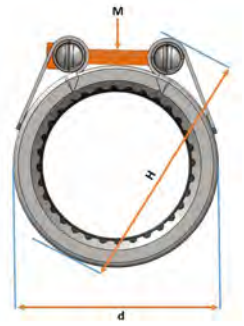
- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

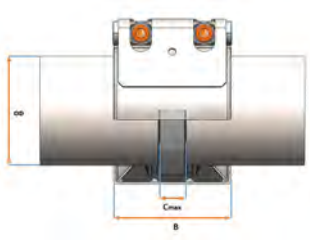
OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
315	**779 752 031**	0	7.8	**779 749 031**
355	**779 752 032**	0	8.5	**779 749 032**
400	**779 752 033**	0	10.5	**779 749 033**
450	**779 752 034**	0	13.1	**779 749 034**
500	**779 752 035**	0	14.5	**779 749 035**
550	**779 752 036**	0	21.1	**779 749 036**
630	**779 752 037**	0	23.5	**779 749 037**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
315	M16	2.5	6	40	312	325	363	140	389	160
355	M16	2.5	6	40	350	363	401	140	427	160
400	M16	2.5	6	40	395	408	446	142	472	160
450	M16	2.5	6	40	447	460	498	142	524	160
500	M16	2.5	6	40	502	515	553	142	579	160
550	M16	2.5	6	40	557	570	608	146	634	160
630	M16	2.5	6	40	627	640	678	146	704	160

UNI-Combigrip







UNI-Combigrip L PN10

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

Remark:

- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
39.0 - 43.0	**779 740 006**	0	0.4	**779 737 006**
47.5 - 52.5	**779 740 008**	0	0.5	**779 737 008**
58.0 - 64.0	**779 740 010**	0	0.6	**779 737 010**
72.0 - 80.0	**779 740 012**	0	1.4	**779 737 012**
88.0 - 96.0	**779 740 014**	0	1.5	**779 737 014**
104.0 - 112.0	**779 740 016**	0	1.7	**779 737 016**
108.0 - 115.0	**779 740 017**	0	1.7	**779 737 017**
122.0 - 130.0	**779 740 018**	0	1.8	**779 737 018**
137.0 - 145.0	**779 740 020**	0	3.5	**779 737 020**
157.0 - 165.0	**779 740 022**	0	3.7	**779 737 022**
164.0 - 172.0	**779 740 024**	0	3.8	**779 737 024**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
39.0 - 43.0	M8	10	16	15	39.0	43.0	66	60	104	25
47.5 - 52.5	M8	10	16	15	47.5	52.5	74	60	112	25
58.0 - 64.0	M8	10	16	25	58.0	64.0	85	75	125	25
72.0 - 80.0	M10	10	16	30	72.0	80.0	108	95	164	40
88.0 - 96.0	M10	10	16	30	88.0	96.0	124	95	170	40
104.0 - 112.0	M10	10	16	30	104.0	112.0	141	95	187	40
108.0 - 115.0	M10	10	16	30	108.0	115.0	141	95	187	40
122.0 - 130.0	M10	10	16	30	122.0	130.0	158	95	202	40
137.0 - 145.0	M12	10	16	40	137.0	145.0	186	110	238	65
157.0 - 165.0	M12	10	16	40	157.0	165.0	205	110	255	65
164.0 - 172.0	M12	10	16	40	164.0	172.0	212	110	262	65



UNI-Combigrip S PN10

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

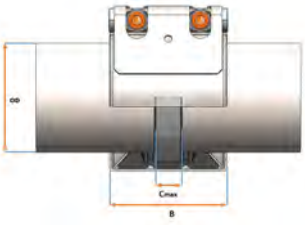
Option:

- Sealing type Viton on request

Remark:

- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**





OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
172 - 185	**779 724 924**	0	6.2	**779 721 924**
195 - 208	**779 724 925**	0	6.6	**779 721 925**
215 - 228	**779 724 926**	0	7.3	**779 721 926**
247 - 260	**779 724 927**	0	8.1	**779 721 927**
269 - 282	**779 724 928**	0	8.7	**779 721 928**
312 - 325	**779 724 929**	0	11.1	**779 721 929**
350 - 363	**779 724 930**	0	12.2	**779 721 930**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
172 - 185	M16	10	16	40	172	185	223	142	249	160
195 - 208	M16	10	16	40	195	208	246	142	272	160
215 - 228	M16	10	16	40	215	228	266	142	292	160
247 - 260	M16	10	16	40	247	260	298	142	324	160
269 - 282	M16	10	16	40	269	282	320	142	346	160
312 - 325	M16	10	16	40	312	325	363	142	389	160
350 - 363	M16	10	16	40	350	363	401	142	427	160



UNI-Combigrip S/S2 PN6

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

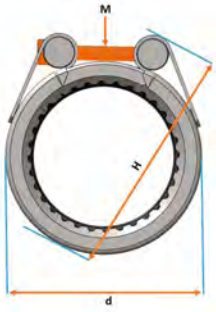
- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

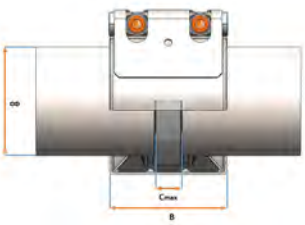
Option:

- Sealing type Viton on request

Remark:

- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

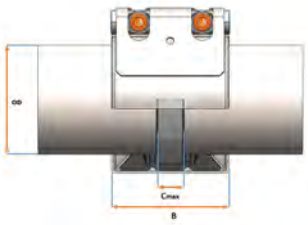




OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
172 - 185	**779 750 924**	0	4.980	**779 747 924**
195 - 208	**779 750 925**	0	5.440	**779 747 925**
215 - 228	**779 750 926**	0	5.840	**779 747 926**
247 - 260	**779 750 927**	0	6.480	**779 747 927**
269 - 282	**779 750 928**	0	6.920	**779 747 928**
312 - 325	**779 750 929**	0	8.644	**779 747 929**
350 - 363	**779 750 930**	0	9.489	**779 747 930**
395 - 408	**779 750 931**	0	13.486	**779 747 931**
447 - 460	**779 750 932**	0	17.467	**779 747 932**
502 - 515	**779 750 933**	0	19.300	**779 747 933**

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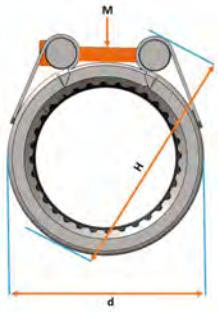


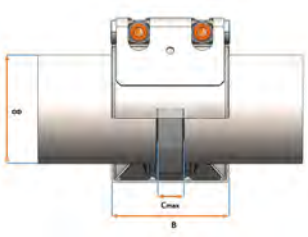


OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
172 - 185	M16	6	10	40	172	185	223	140	249	160
195 - 208	M16	6	10	40	195	208	246	140	272	160
215 - 228	M16	6	10	40	215	228	266	140	292	160
247 - 260	M16	6	10	40	247	260	298	140	324	160
269 - 282	M16	6	10	40	269	282	320	140	346	160
312 - 325	M16	6	10	40	312	325	363	142	389	160
350 - 363	M16	6	10	40	350	363	401	142	427	160
395 - 408	M16	6	10	40	395	408	446	146	472	160
447 - 460	M16	6	10	40	447	460	498	146	524	160
502 - 515	M16	6	10	40	502	515	553	146	579	160

UNI-Combigrip S/S2/S3/S4 PN2,5







Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

Remark:

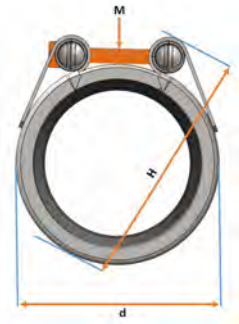
- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

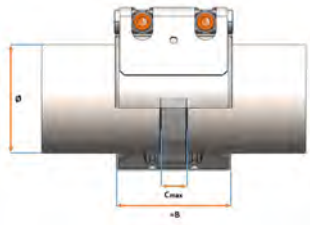
OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
312 - 325	**779 760 929**	0	7.8	**779 757 929**
350 - 363	**779 760 930**	0	8.5	**779 757 930**
395 - 408	**779 760 931**	0	10.5	**779 757 931**
447 - 460	**779 760 932**	0	13.1	**779 757 932**
502 - 515	**779 760 933**	0	14.5	**779 757 933**
557 - 570	**779 760 934**	0	21.1	**779 757 934**
627 - 640	**779 760 935**	0	23.5	**779 757 935**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
312 - 325	M16	2.5	6	40	312	325	363	140	389	160
350 - 363	M16	2.5	6	40	350	363	401	140	427	160
395 - 408	M16	2.5	6	40	395	408	446	142	472	160
447 - 460	M16	2.5	6	40	447	460	498	142	524	160
502 - 515	M16	2.5	6	40	502	515	553	142	579	160
557 - 570	M16	2.5	6	40	557	570	608	146	634	160
627 - 640	M16	2.5	6	40	627	640	678	146	704	160

UNI-Flex







UNI-Flex L PN16

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

Remark:

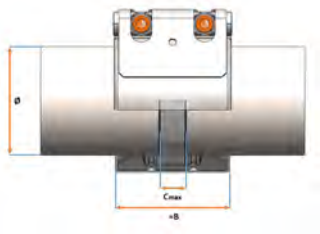
- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
21.0 - 24.0	**779 812 001**	0	0.2	**779 809 001**
25.0 - 29.0	**779 812 002**	0	0.2	**779 809 002**
29.0 - 32.0	**779 812 003**	0	0.2	**779 809 003**
33.0 - 36.0	**779 812 004**	0	0.2	**779 809 004**
36.0 - 39.0	**779 812 005**	0	0.4	**779 809 005**
39.0 - 43.0	**779 812 006**	0	0.4	**779 809 006**
43.0 - 47.5	**779 812 007**	0	0.4	**779 809 007**
47.5 - 52.5	**779 812 008**	0	0.4	**779 809 008**
52.5 - 58.0	**779 812 009**	0	0.6	**779 809 009**
58.0 - 64.0	**779 812 010**	0	0.6	**779 809 010**
64.0 - 72.0	**779 812 011**	0	1.0	**779 809 011**
72.0 - 80.0	**779 812 012**	0	1.0	**779 809 012**
80.0 - 88.0	**779 812 013**	0	1.0	**779 809 013**
88.0 - 96.0	**779 812 014**	0	1.0	**779 809 014**
97.0 - 105.0	**779 812 015**	0	1.1	**779 809 015**
104.0 - 112.0	**779 812 016**	0	1.1	**779 809 016**
112.0 - 120.0	**779 812 017**	0	1.2	**779 809 017**
122.0 - 130.0	**779 812 018**	0	1.2	**779 809 018**
129.0 - 137.0	**779 812 019**	0	2.1	**779 809 019**
137.0 - 145.0	**779 812 020**	0	2.2	**779 809 020**
149.0 - 157.0	**779 812 021**	0	2.3	**779 809 021**
157.0 - 165.0	**779 812 022**	0	2.3	**779 809 022**
164.0 - 172.0	**779 812 023**	0	2.4	**779 809 023**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
21.0 - 24.0	M6	16	25	10	21.0	24.0	46	45	76	3.0
25.0 - 29.0	M6	16	25	10	25.0	29.0	46	45	76	3.0
29.0 - 32.0	M6	16	25	10	29.0	32.0	54	45	84	3.0
33.0 - 36.0	M6	16	25	10	33.0	36.0	54	45	84	3.0
36.0 - 39.0	M8	16	25	15	36.0	39.0	66	60	104	5.0
39.0 - 43.0	M8	16	25	15	39.0	43.0	66	60	104	5.0
43.0 - 47.5	M8	16	25	15	43.0	47.5	74	60	112	5.0
47.5 - 52.5	M8	16	25	15	47.5	52.5	74	60	112	5.0
52.5 - 58.0	M8	16	25	25	52.5	58.0	85	75	125	5.0
58.0 - 64.0	M8	16	25	25	58.0	64.0	85	75	125	5.0
64.0 - 72.0	M10	16	25	30	64.0	72.0	108	95	164	10.0
72.0 - 80.0	M10	16	25	30	72.0	80.0	108	95	164	10.0
80.0 - 88.0	M10	16	25	30	80.0	88.0	124	95	170	10.0
88.0 - 96.0	M10	16	25	30	88.0	96.0	124	95	170	10.0
97.0 - 105.0	M10	16	25	30	97.0	105.0	141	95	187	10.0
104.0 - 112.0	M10	16	25	30	104.0	112.0	141	95	187	10.0
112.0 - 120.0	M10	16	25	30	112.0	120.0	158	95	202	12.5
122.0 - 130.0	M10	16	25	30	122.0	130.0	158	95	202	12.5
129.0 - 137.0	M12	16	25	40	129.0	137.0	178	110	230	20.0

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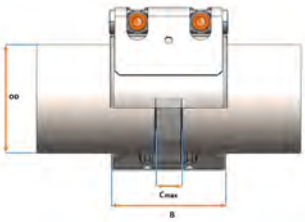




OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
137.0 - 145.0	M12	16	25	40	137.0	145.0	186	110	238	25.0
149.0 - 157.0	M12	16	25	40	149.0	157.0	197	110	249	30.0
157.0 - 165.0	M12	16	25	40	157.0	165.0	205	110	255	30.0
164.0 - 172.0	M12	16	25	40	164.0	172.0	212	110	262	30.0







UNI-Flex S PN16

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

Remark:

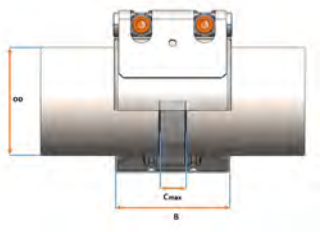
- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
185 - 198	**779 864 024**	0	5.0	**779 862 024**
198 - 211	**779 864 025**	0	5.2	**779 862 025**
210 - 223	**779 864 026**	0	5.3	**779 862 026**
221 - 234	**779 864 027**	0	5.5	**779 862 027**
234 - 247	**779 864 028**	0	5.6	**779 862 028**
247 - 260	**779 864 029**	0	5.8	**779 862 029**
263 - 276	**779 864 030**	0	6.0	**779 862 030**
277 - 290	**779 864 031**	0	7.6	**779 862 031**
288 - 301	**779 864 032**	0	7.8	**779 862 032**
301 - 314	**779 864 033**	0	8.0	**779 862 033**
315 - 328	**779 864 034**	0	8.2	**779 862 034**
327 - 340	**779 864 035**	0	8.4	**779 862 035**
340 - 353	**779 864 036**	0	8.6	**779 862 036**
350 - 363	**779 864 037**	0	8.8	**779 862 037**
361 - 374	**779 864 038**	0	12.6	**779 862 038**
374 - 387	**779 864 039**	0	12.9	**779 862 039**
387 - 400	**779 864 040**	0	13.3	**779 862 040**
400 - 413	**779 864 041**	0	13.6	**779 862 041**
412 - 425	**779 864 042**	0	13.9	**779 862 042**
422 - 435	**779 864 043**	0	14.1	**779 862 043**
438 - 451	**779 864 044**	0	14.5	**779 862 044**
451 - 464	**779 864 045**	0	14.9	**779 862 045**
460 - 473	**779 864 046**	0	15.1	**779 862 046**
476 - 489	**779 864 047**	0	15.5	**779 862 047**
488 - 501	**779 864 048**	0	15.8	**779 862 048**
503 - 516	**779 864 049**	0	16.2	**779 862 049**
520 - 533	**779 864 050**	0	16.6	**779 862 050**
531 - 544	**779 864 051**	0	16.9	**779 862 051**
546 - 559	**779 864 052**	0	17.2	**779 862 052**
557 - 570	**779 864 053**	0	17.5	**779 862 053**
571 - 584	**779 864 054**	0	17.9	**779 862 054**
600 - 613	**779 864 055**	0	18.6	**779 862 055**
610 - 623	**779 864 056**	0	18.9	**779 862 056**
628 - 641	**779 864 057**	0	19.3	**779 862 057**
648 - 661	**779 864 058**	0	19.8	**779 862 058**
676 - 689	**779 864 059**	0	20.5	**779 862 059**
688 - 701	**779 864 060**	0	20.8	**779 862 060**
700 - 713	**779 864 061**	0	21.1	**779 862 061**
717 - 730	**779 864 062**	0	21.5	**779 862 062**
732 - 745	**779 864 063**	0	21.9	**779 862 063**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
185 - 198	M12	16	25	40	185	198	236	140	262	30
198 - 211	M12	16	25	40	198	211	249	140	275	30
210 - 223	M12	16	25	40	210	223	261	140	287	30
221 - 234	M12	16	25	40	221	234	272	140	298	30
234 - 247	M12	16	25	40	234	247	285	140	311	30

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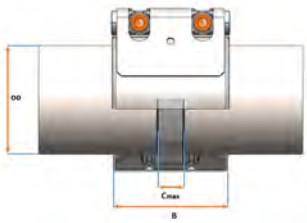




OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
247 - 260	M12	16	25	40	247	260	298	140	324	30
263 - 276	M12	16	25	40	263	276	314	140	340	30
277 - 290	M16	16	25	40	277	290	328	142	354	30
288 - 301	M16	16	25	40	288	301	339	142	365	30
301 - 314	M16	16	25	40	301	314	352	142	378	30
315 - 328	M16	16	25	40	315	328	366	142	392	30
327 - 340	M16	16	25	40	327	340	378	142	404	50
340 - 353	M16	16	25	40	340	353	391	142	417	50
350 - 363	M16	16	25	40	350	363	401	142	427	50
361 - 374	M16	16	25	40	361	374	412	146	438	50
374 - 387	M16	16	25	40	374	387	425	146	451	50
387 - 400	M16	16	25	40	387	400	438	146	464	50
400 - 413	M16	16	25	40	400	413	451	146	477	50
412 - 425	M16	16	25	40	412	425	463	146	489	50
422 - 435	M16	16	25	40	422	435	473	146	499	50
438 - 451	M16	16	25	40	438	451	489	146	515	50
451 - 464	M16	16	25	40	451	464	502	146	528	50
460 - 473	M16	16	25	40	460	473	511	146	537	50
476 - 489	M16	16	25	40	476	489	527	146	553	50
488 - 501	M16	16	25	40	488	501	539	146	565	50
503 - 516	M16	16	25	40	503	516	554	146	580	50
520 - 533	M16	16	25	40	520	533	575	146	603	60
531 - 544	M16	16	25	40	531	544	586	146	614	60
546 - 559	M16	16	25	40	546	559	601	146	629	60
557 - 570	M16	16	25	40	557	570	612	146	640	60
571 - 584	M16	16	25	40	571	584	626	146	654	60
600 - 613	M16	16	25	40	600	613	655	146	683	60
610 - 623	M16	16	25	40	610	623	665	146	693	70
628 - 641	M16	16	25	40	628	641	683	146	711	70
648 - 661	M16	16	25	40	648	661	703	146	731	70
676 - 689	M16	16	25	40	676	689	731	146	759	70
688 - 701	M16	16	25	40	688	701	743	146	771	70
700 - 713	M16	16	25	40	700	713	755	146	783	70
717 - 730	M16	16	25	40	717	730	772	146	800	70
732 - 745	M16	16	25	40	732	745	787	146	815	70







UNI-Flex S2 PN16

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

Remark:

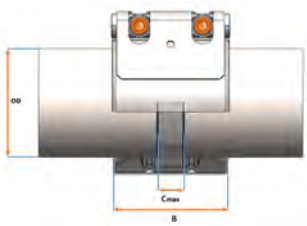
- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
756 - 782	**779 864 064**	0	26.1	**779 862 064**
782 - 808	**779 864 065**	0	26.7	**779 862 065**
806 - 832	**779 864 066**	0	27.3	**779 862 066**
828 - 854	**779 864 067**	0	27.9	**779 862 067**
856 - 882	**779 864 068**	0	28.6	**779 862 068**
882 - 908	**779 864 069**	0	29.2	**779 862 069**
904 - 930	**779 864 070**	0	29.8	**779 862 070**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
756 - 782	M16	16	25	40	756	782	824	146	852	70
782 - 808	M16	16	25	40	782	808	850	146	878	70
806 - 832	M16	16	25	40	806	832	874	146	902	70
828 - 854	M16	16	25	40	828	854	896	146	924	80
856 - 882	M16	16	25	40	856	882	924	146	952	80
882 - 908	M16	16	25	40	882	908	950	146	978	80
904 - 930	M16	16	25	40	904	930	972	146	1000	80







UNI-Flex S PN10

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

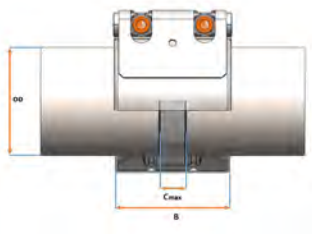
Remark:

- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
185 - 198	**779 864 124**	0	3.9	**779 862 124**
198 - 211	**779 864 125**	0	4.0	**779 862 125**
210 - 223	**779 864 126**	0	4.1	**779 862 126**
221 - 234	**779 864 127**	0	4.2	**779 862 127**
234 - 247	**779 864 128**	0	4.3	**779 862 128**
247 - 260	**779 864 129**	0	4.4	**779 862 129**
263 - 276	**779 864 130**	0	4.6	**779 862 130**
277 - 290	**779 864 131**	0	6.1	**779 862 131**
288 - 301	**779 864 132**	0	6.3	**779 862 132**
301 - 314	**779 864 133**	0	6.4	**779 862 133**
315 - 328	**779 864 134**	0	6.6	**779 862 134**
327 - 340	**779 864 135**	0	6.8	**779 862 135**
340 - 353	**779 864 136**	0	6.9	**779 862 136**

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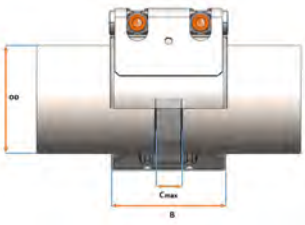


OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
350 - 363	**779 864 137**	0	7.0	**779 862 137**
361 - 374	**779 864 138**	0	8.9	**779 862 138**
374 - 387	**779 864 139**	0	9.1	**779 862 139**
387 - 400	**779 864 140**	0	9.4	**779 862 140**
400 - 413	**779 864 141**	0	9.6	**779 862 141**
412 - 425	**779 864 142**	0	9.8	**779 862 142**
422 - 435	**779 864 143**	0	9.9	**779 862 143**
438 - 451	**779 864 144**	0	10.2	**779 862 144**
451 - 464	**779 864 145**	0	10.4	**779 862 145**
460 - 473	**779 864 146**	0	10.5	**779 862 146**
476 - 489	**779 864 147**	0	10.8	**779 862 147**
488 - 501	**779 864 148**	0	11.0	**779 862 148**
503 - 516	**779 864 149**	0	11.2	**779 862 149**
520 - 533	**779 864 150**	0	11.5	**779 862 150**
531 - 544	**779 864 151**	0	11.7	**779 862 151**
546 - 559	**779 864 152**	0	11.9	**779 862 152**
557 - 570	**779 864 153**	0	12.1	**779 862 153**
571 - 584	**779 864 154**	0	12.3	**779 862 154**
600 - 613	**779 864 155**	0	12.8	**779 862 155**
610 - 623	**779 864 156**	0	12.9	**779 862 156**
628 - 641	**779 864 157**	0	13.2	**779 862 157**
648 - 661	**779 864 158**	0	13.5	**779 862 158**
676 - 689	**779 864 159**	0	14.0	**779 862 159**
688 - 701	**779 864 160**	0	14.2	**779 862 160**
700 - 713	**779 864 161**	0	14.4	**779 862 161**
717 - 730	**779 864 162**	0	14.7	**779 862 162**
732 - 745	**779 864 163**	0	14.9	**779 862 163**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
185 - 198	M12	10	16	40	185	198	236	138	262	30
198 - 211	M12	10	16	40	198	211	249	138	275	30
210 - 223	M12	10	16	40	210	223	261	138	287	30
221 - 234	M12	10	16	40	221	234	272	138	298	30
234 - 247	M12	10	16	40	234	247	285	138	311	30
247 - 260	M12	10	16	40	247	260	298	138	324	30
263 - 276	M12	10	16	40	263	276	314	138	340	30
277 - 290	M12	10	16	40	277	290	328	140	354	30
288 - 301	M12	10	16	40	288	301	339	140	365	30
301 - 314	M12	10	16	40	301	314	352	140	378	30
315 - 328	M12	10	16	40	315	328	366	140	392	30
327 - 340	M12	10	16	40	327	340	378	140	404	40
340 - 353	M12	10	16	40	340	353	391	140	417	40
350 - 363	M12	10	16	40	350	363	401	140	427	40
361 - 374	M12	10	16	40	361	374	412	142	438	40
374 - 387	M12	10	16	40	374	387	425	142	451	40
387 - 400	M12	10	16	40	387	400	438	142	464	40
400 - 413	M12	10	16	40	400	413	451	142	477	40
412 - 425	M12	10	16	40	412	425	463	142	489	40
422 - 435	M12	10	16	40	422	435	473	142	499	40
438 - 451	M12	10	16	40	438	451	489	142	515	40
451 - 464	M12	10	16	40	451	464	502	142	528	40
460 - 473	M12	10	16	40	460	473	511	142	537	40
476 - 489	M12	10	16	40	476	489	527	142	553	40
488 - 501	M12	10	16	40	488	501	539	142	565	40
503 - 516	M12	10	16	40	503	516	554	142	580	40
520 - 533	M16	10	16	40	520	533	575	142	603	50
531 - 544	M16	10	16	40	531	544	586	142	614	50
546 - 559	M16	10	16	40	546	559	601	142	629	50
557 - 570	M16	10	16	40	557	570	612	142	640	50
571 - 584	M16	10	16	40	571	584	626	142	654	50

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OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
600 - 613	M16	10	16	40	600	613	655	142	683	50
610 - 623	M16	10	16	40	610	623	665	142	693	60
628 - 641	M16	10	16	40	628	641	683	142	711	60
648 - 661	M16	10	16	40	648	661	703	142	731	60
676 - 689	M16	10	16	40	676	689	731	142	759	60
688 - 701	M16	10	16	40	688	701	743	142	771	60
700 - 713	M16	10	16	40	700	713	755	142	783	60
717 - 730	M16	10	16	40	717	730	772	142	800	60
732 - 745	M16	10	16	40	732	745	787	142	815	60



UNI-Flex S2/S3 PN10

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

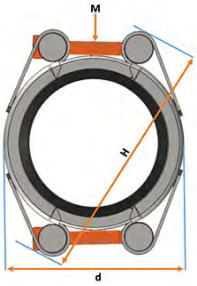
- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

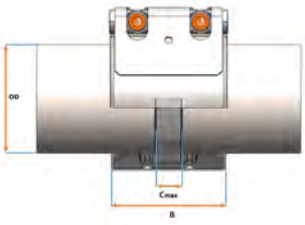
Option:

- Sealing type Viton on request

Remark:

- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

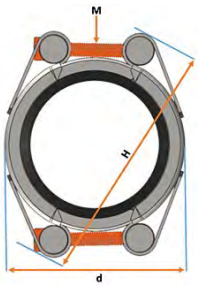


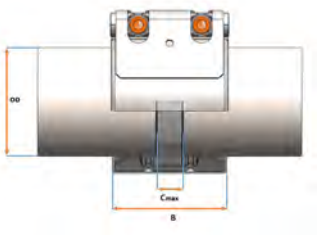


OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
756 - 782	**779 864 164**	0	18.4	**779 862 164**
782 - 808	**779 864 165**	0	18.8	**779 862 165**
806 - 832	**779 864 166**	0	19.2	**779 862 166**
828 - 854	**779 864 167**	0	19.6	**779 862 167**
856 - 882	**779 864 168**	0	20.0	**779 862 168**
882 - 908	**779 864 169**	0	20.4	**779 862 169**
904 - 930	**779 864 170**	0	20.8	**779 862 170**
936 - 962	**779 864 171**	0	30.6	**779 862 171**
961 - 987	**779 864 172**	0	31.2	**779 862 172**
984 - 1010	**779 864 173**	0	31.8	**779 862 173**
1004 - 1030	**779 864 174**	0	32.3	**779 862 174**
1044 - 1070	**779 864 175**	0	33.3	**779 862 175**
1076 - 1102	**779 864 176**	0	34.1	**779 862 176**
1104 - 1130	**779 864 177**	0	34.8	**779 862 177**
1138 - 1177	**779 864 178**	0	39.2	**779 862 178**
1192 - 1231	**779 864 179**	0	40.6	**779 862 179**
1241 - 1280	**779 864 180**	0	41.8	**779 862 180**
1331 - 1370	**779 864 181**	0	44.1	**779 862 181**
1413 - 1452	**779 864 182**	0	46.1	**779 862 182**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
756 - 782	M16	10	16	40	756	782	824	142	852	60
782 - 808	M16	10	16	40	782	808	850	142	878	60
806 - 832	M16	10	16	40	806	832	874	142	902	60
828 - 854	M16	10	16	40	828	854	896	142	924	60
856 - 882	M16	10	16	40	856	882	924	142	952	60
882 - 908	M16	10	16	40	882	908	950	142	978	60

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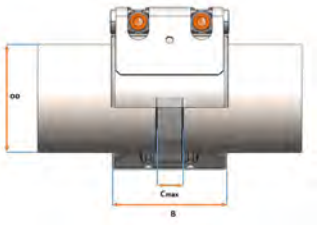


OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
904 - 930	M16	10	16	40	904	930	972	142	1000	60
936 - 962	M16	10	16	40	936	962	1004	146	1032	60
961 - 987	M16	10	16	40	961	987	1029	146	1057	60
984 - 1010	M16	10	16	40	984	1010	1052	146	1080	60
1004 - 1030	M16	10	16	40	1004	1030	1072	146	1100	60
1044 - 1070	M16	10	16	40	1044	1070	1116	146	1146	80
1076 - 1102	M16	10	16	40	1076	1102	1148	146	1178	80
1104 - 1130	M16	10	16	40	1104	1130	1176	146	1206	80
1138 - 1177	M16	10	16	40	1138	1177	1223	146	1253	80
1192 - 1231	M16	10	16	40	1192	1231	1277	146	1307	80
1241 - 1280	M16	10	16	40	1241	1280	1326	146	1356	80
1331 - 1370	M16	10	16	40	1331	1370	1416	146	1446	80
1413 - 1452	M16	10	16	40	1413	1452	1498	146	1528	80

UNI-Flex S PN6







Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

Remark:

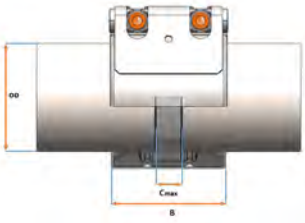
- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
277 - 290	**779 864 231**	0	4.7	**779 862 231**
288 - 301	**779 864 232**	0	4.8	**779 862 232**
301 - 314	**779 864 233**	0	4.9	**779 862 233**
315 - 328	**779 864 234**	0	5.0	**779 862 234**
327 - 340	**779 864 235**	0	5.1	**779 862 235**
340 - 353	**779 864 236**	0	5.2	**779 862 236**
350 - 363	**779 864 237**	0	5.2	**779 862 237**
361 - 374	**779 864 238**	0	5.3	**779 862 238**
374 - 387	**779 864 239**	0	5.4	**779 862 239**
387 - 400	**779 864 240**	0	5.5	**779 862 240**
400 - 413	**779 864 241**	0	5.6	**779 862 241**
412 - 425	**779 864 242**	0	5.7	**779 862 242**
422 - 435	**779 864 243**	0	5.8	**779 862 243**
438 - 451	**779 864 244**	0	5.9	**779 862 244**
451 - 464	**779 864 245**	0	6.0	**779 862 245**
460 - 473	**779 864 246**	0	6.1	**779 862 246**
476 - 489	**779 864 247**	0	6.2	**779 862 247**
488 - 501	**779 864 248**	0	6.3	**779 862 248**
503 - 516	**779 864 249**	0	6.5	**779 862 249**
520 - 533	**779 864 250**	0	9.1	**779 862 250**
531 - 544	**779 864 251**	0	9.2	**779 862 251**
546 - 559	**779 864 252**	0	9.4	**779 862 252**
557 - 570	**779 864 253**	0	9.5	**779 862 253**
571 - 584	**779 864 254**	0	9.7	**779 862 254**
600 - 613	**779 864 255**	0	10.1	**779 862 255**
610 - 623	**779 864 256**	0	10.2	**779 862 256**
628 - 641	**779 864 257**	0	10.4	**779 862 257**

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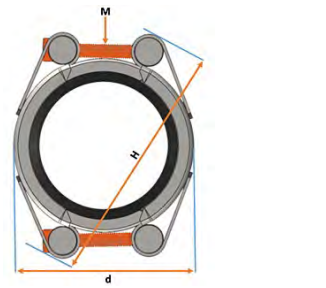


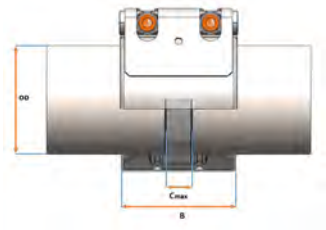
OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
648 - 661	**779 864 258**	0	10.6	**779 862 258**
676 - 689	**779 864 259**	0	11.0	**779 862 259**
688 - 701	**779 864 260**	0	11.1	**779 862 260**
700 - 713	**779 864 261**	0	11.3	**779 862 261**
717 - 730	**779 864 262**	0	11.5	**779 862 262**
732 - 745	**779 864 263**	0	11.6	**779 862 263**



OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
277 - 290	M12	6	10	40	277	290	328	138	354	30
288 - 301	M12	6	10	40	288	301	339	138	365	30
301 - 314	M12	6	10	40	301	314	352	138	378	30
315 - 328	M12	6	10	40	315	328	366	138	392	30
327 - 340	M12	6	10	40	327	340	378	138	404	40
340 - 353	M12	6	10	40	340	353	391	138	417	40
350 - 363	M12	6	10	40	350	363	401	138	427	40
361 - 374	M12	6	10	40	361	374	412	138	438	40
374 - 387	M12	6	10	40	374	387	425	138	451	40
387 - 400	M12	6	10	40	387	400	438	138	464	40
400 - 413	M12	6	10	40	400	413	451	138	477	40
412 - 425	M12	6	10	40	412	425	463	138	489	40
422 - 435	M12	6	10	40	422	435	473	138	499	40
438 - 451	M12	6	10	40	438	451	489	138	515	40
451 - 464	M12	6	10	40	451	464	502	138	528	40
460 - 473	M12	6	10	40	460	473	511	138	537	40
476 - 489	M12	6	10	40	476	489	527	138	553	40
488 - 501	M12	6	10	40	488	501	539	138	565	40
503 - 516	M12	6	10	40	503	516	554	138	580	40
520 - 533	M12	6	10	40	520	533	575	140	603	50
531 - 544	M12	6	10	40	531	544	586	140	614	50
546 - 559	M12	6	10	40	546	559	601	140	629	50
557 - 570	M12	6	10	40	557	570	612	140	640	50
571 - 584	M12	6	10	40	571	584	626	140	654	50
600 - 613	M12	6	10	40	600	613	655	140	683	50
610 - 623	M12	6	10	40	610	623	665	140	693	60
628 - 641	M12	6	10	40	628	641	683	140	711	60
648 - 661	M12	6	10	40	648	661	703	140	731	60
676 - 689	M12	6	10	40	676	689	731	140	759	60
688 - 701	M12	6	10	40	688	701	743	140	771	60
700 - 713	M12	6	10	40	700	713	755	140	783	60
717 - 730	M12	6	10	40	717	730	772	140	800	60
732 - 745	M12	6	10	40	732	745	787	140	815	60







UNI-Flex S2/S3 PN6

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

Remark:

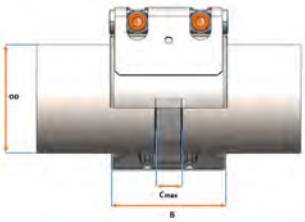
- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
756 - 782	**779 864 264**	0	14.7	**779 862 264**
782 - 808	**779 864 265**	0	15.1	**779 862 265**
806 - 832	**779 864 266**	0	15.3	**779 862 266**
828 - 854	**779 864 267**	0	15.6	**779 862 267**
856 - 882	**779 864 268**	0	15.9	**779 862 268**
882 - 908	**779 864 269**	0	16.3	**779 862 269**
904 - 930	**779 864 270**	0	16.5	**779 862 270**
936 - 962	**779 864 271**	0	21.3	**779 862 271**
961 - 987	**779 864 272**	0	21.7	**779 862 272**
984 - 1010	**779 864 273**	0	22.1	**779 862 273**
1004 - 1030	**779 864 274**	0	22.4	**779 862 274**
1044 - 1070	**779 864 275**	0	23.0	**779 862 275**
1076 - 1102	**779 864 276**	0	23.6	**779 862 276**
1104 - 1130	**779 864 277**	0	24.0	**779 862 277**
1138 - 1177	**779 864 278**	0	27.7	**779 862 278**
1192 - 1231	**779 864 279**	0	28.6	**779 862 279**
1241 - 1280	**779 864 280**	0	29.3	**779 862 280**
1331 - 1370	**779 864 281**	0	30.8	**779 862 281**
1413 - 1452	**779 864 282**	0	32.1	**779 862 282**
1432 - 1471	**779 864 283**	0	32.4	**779 862 283**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
756 - 782	M12	6	10	40	756	782	824	140	852	60
782 - 808	M12	6	10	40	782	808	850	140	878	60
806 - 832	M12	6	10	40	806	832	874	140	902	60
828 - 854	M12	6	10	40	828	854	896	140	924	60
856 - 882	M12	6	10	40	856	882	924	140	952	60
882 - 908	M12	6	10	40	882	908	950	140	978	60
904 - 930	M12	6	10	40	904	930	972	140	1000	60
936 - 962	M16	6	10	40	936	962	1029	142	1057	60
961 - 987	M16	6	10	40	961	987	1004	142	1032	60
984 - 1010	M16	6	10	40	984	1010	1052	142	1080	60
1004 - 1030	M16	6	10	40	1004	1030	1072	142	1100	60
1044 - 1070	M16	6	10	40	1044	1070	1116	142	1146	80
1076 - 1102	M16	6	10	40	1076	1102	1148	142	1178	80
1104 - 1130	M16	6	10	40	1104	1130	1176	142	1206	80
1138 - 1177	M16	6	10	40	1138	1177	1223	142	1253	80
1192 - 1231	M16	6	10	40	1192	1231	1277	142	1307	80
1241 - 1280	M16	6	10	40	1241	1280	1326	142	1356	80
1331 - 1370	M16	6	10	40	1331	1370	1416	142	1446	80
1413 - 1452	M16	6	10	40	1413	1452	1498	142	1528	80
1432 - 1471	M16	6	10	40	1432	1471	1517	142	1547	80







UNI-Flex S PN2.5

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

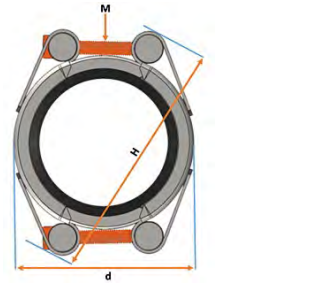
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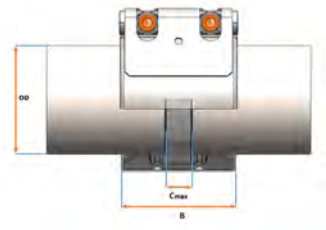
- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
520 - 533	**779 864 350**	0	6.6	**779 862 350**
531 - 544	**779 864 351**	0	6.7	**779 862 351**
546 - 559	**779 864 352**	0	6.8	**779 862 352**
557 - 570	**779 864 353**	0	6.9	**779 862 353**
571 - 584	**779 864 354**	0	7.0	**779 862 354**
600 - 613	**779 864 355**	0	7.2	**779 862 355**
610 - 623	**779 864 356**	0	7.3	**779 862 356**
628 - 641	**779 864 357**	0	7.4	**779 862 357**
648 - 661	**779 864 358**	0	7.6	**779 862 358**
676 - 689	**779 864 359**	0	7.8	**779 862 359**
688 - 701	**779 864 360**	0	7.9	**779 862 360**
700 - 713	**779 864 361**	0	8.0	**779 862 361**
717 - 730	**779 864 362**	0	8.1	**779 862 362**
732 - 745	**779 864 363**	0	8.3	**779 862 363**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
520 - 533	M12	2.5	6	40	520	533	575	138	603	60
531 - 544	M12	2.5	6	40	531	544	586	138	614	60
546 - 559	M12	2.5	6	40	546	559	601	138	629	60
557 - 570	M12	2.5	6	40	557	570	612	138	640	60
571 - 584	M12	2.5	6	40	571	584	626	138	654	60
600 - 613	M12	2.5	6	40	600	613	655	138	683	60
610 - 623	M12	2.5	6	40	610	623	665	138	693	70
628 - 641	M12	2.5	6	40	628	641	683	138	711	70
648 - 661	M12	2.5	6	40	648	661	703	138	731	70
676 - 689	M12	2.5	6	40	676	689	731	138	759	70
688 - 701	M12	2.5	6	40	688	701	743	138	771	70
700 - 713	M12	2.5	6	40	700	713	755	138	783	70
717 - 730	M12	2.5	6	40	717	730	772	138	800	70
732 - 745	M12	2.5	6	40	732	745	787	138	815	70







UNI-Flex S2/S3/S4 PN2.5

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

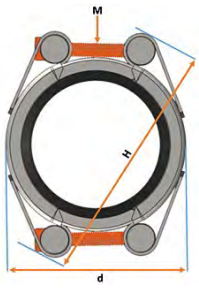
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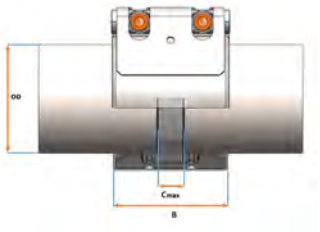
- **For safe installation on PVC-, ABS-, PE-, PP- and PB-pipes insert stiffeners are mandatory**

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
756 - 782	**779 864 364**	0	10.9	**779 862 364**
782 - 808	**779 864 365**	0	11.1	**779 862 365**
806 - 832	**779 864 366**	0	11.3	**779 862 366**
828 - 854	**779 864 367**	0	11.5	**779 862 367**
856 - 882	**779 864 368**	0	11.7	**779 862 368**
882 - 908	**779 864 369**	0	11.9	**779 862 369**
904 - 930	**779 864 370**	0	12.1	**779 862 370**
936 - 962	**779 864 371**	0	16.9	**779 862 371**
961 - 987	**779 864 372**	0	17.2	**779 862 372**
984 - 1010	**779 864 373**	0	17.5	**779 862 373**
1004 - 1030	**779 864 374**	0	17.7	**779 862 374**
1044 - 1070	**779 864 375**	0	18.2	**779 862 375**
1076 - 1102	**779 864 376**	0	18.6	**779 862 376**
1104 - 1130	**779 864 377**	0	18.9	**779 862 377**
1138 - 1177	**779 864 378**	0	22.2	**779 862 378**
1192 - 1231	**779 864 379**	0	22.8	**779 862 379**
1241 - 1280	**779 864 380**	0	23.4	**779 862 380**
1331 - 1370	**779 864 381**	0	24.5	**779 862 381**
1413 - 1452	**779 864 382**	0	25.5	**779 862 382**
1432 - 1471	**779 864 383**	0	25.7	**779 862 383**
1529 - 1568	**779 864 384**	0	34.0	**779 862 384**
1620 - 1672	**779 864 385**	0	38.6	**779 862 385**
1827 - 1879	**779 864 386**	0	41.9	**779 862 386**
2000 - 2052	**779 864 387**	0	44.7	**779 862 387**
2038 - 2090	**779 864 388**	0	45.3	**779 862 388**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
756 - 782	M12	2.5	6	40	756	782	824	138	852	70
782 - 808	M12	2.5	6	40	782	808	850	138	878	70
806 - 832	M12	2.5	6	40	806	832	874	138	902	70
828 - 854	M12	2.5	6	40	828	854	896	138	924	70
856 - 882	M12	2.5	6	40	856	882	924	138	952	70
882 - 908	M12	2.5	6	40	882	908	950	138	978	70
904 - 930	M12	2.5	6	40	904	930	972	138	1000	70
936 - 962	M12	2.5	6	40	936	962	1004	140	1032	80
961 - 987	M12	2.5	6	40	961	987	1029	140	1057	80
984 - 1010	M12	2.5	6	40	984	1010	1052	140	1080	80
1004 - 1030	M12	2.5	6	40	1004	1030	1072	140	1100	80
1044 - 1070	M12	2.5	6	40	1044	1070	1116	140	1146	80
1076 - 1102	M12	2.5	6	40	1076	1102	1148	140	1178	80
1104 - 1130	M12	2.5	6	40	1104	1130	1176	140	1206	80
1138 - 1177	M12	2.5	6	40	1138	1177	1223	140	1253	80
1192 - 1231	M12	2.5	6	40	1192	1231	1277	140	1307	80
1241 - 1280	M12	2.5	6	40	1241	1280	1326	140	1356	80
1331 - 1370	M12	2.5	6	40	1331	1370	1416	140	1446	80
1413 - 1452	M12	2.5	6	40	1413	1452	1498	140	1528	80
1432 - 1471	M12	2.5	6	40	1432	1471	1517	142	1547	80
1529 - 1568	M12	2.5	6	40	1529	1568	1614	142	1644	80

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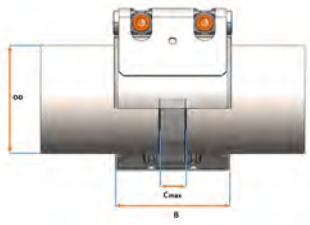


OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
1620 - 1672	M12	2.5	6	40	1620	1672	1718	142	1748	80
1827 - 1879	M12	2.5	6	40	1827	1879	1925	142	1955	80
2000 - 2052	M12	2.5	6	40	2000	2052	2098	142	2128	80
2038 - 2090	M12	2.5	6	40	2038	2090	2136	142	2166	80

UNI-Rep







UNI-Rep L PN16

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
36.0 - 39.0	**779 912 005**	0	0.4	**779 909 005**
39.0 - 43.0	**779 912 006**	0	0.4	**779 909 006**
43.0 - 47.5	**779 912 007**	0	0.4	**779 909 007**
47.5 - 52.5	**779 912 008**	0	0.4	**779 909 008**
52.5 - 58.0	**779 912 009**	0	0.6	**779 909 009**
58.0 - 64.0	**779 912 010**	0	0.6	**779 909 010**
64.0 - 72.0	**779 912 011**	0	1.0	**779 909 011**
72.0 - 80.0	**779 912 012**	0	1.0	**779 909 012**
80.0 - 88.0	**779 912 013**	0	1.0	**779 909 013**
88.0 - 96.0	**779 912 014**	0	1.0	**779 909 014**
97.0 - 105.0	**779 912 015**	0	1.1	**779 909 015**
104.0 - 112.0	**779 912 016**	0	1.1	**779 909 016**
112.0 - 120.0	**779 912 017**	0	1.2	**779 909 017**
122.0 - 130.0	**779 912 018**	0	1.2	**779 909 018**
129.0 - 137.0	**779 912 019**	0	2.1	**779 909 019**
137.0 - 145.0	**779 912 020**	0	2.2	**779 909 020**
149.0 - 157.0	**779 912 021**	0	2.3	**779 909 021**
157.0 - 165.0	**779 912 022**	0	2.3	**779 909 022**
164.0 - 172.0	**779 912 023**	0	2.4	**779 909 023**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
36.0 - 39.0	M8	16	60	15	36.0	39.0	66	60	104	5.0
39.0 - 43.0	M8	16	50	15	39.0	43.0	66	60	104	5.0
43.0 - 47.5	M8	16	50	15	43.0	47.5	74	60	112	5.0
47.5 - 52.5	M8	16	50	15	47.5	52.5	74	60	112	5.0
52.5 - 58.0	M8	16	50	25	52.5	58.0	85	75	125	5.0
58.0 - 64.0	M8	16	40	25	58.0	64.0	85	75	125	5.0
64.0 - 72.0	M10	16	40	30	64.0	72.0	108	95	164	10.0
72.0 - 80.0	M10	16	40	30	72.0	80.0	108	95	164	10.0
80.0 - 88.0	M10	16	35	30	80.0	88.0	124	95	170	10.0
88.0 - 96.0	M10	16	35	30	88.0	96.0	124	95	170	10.0
97.0 - 105.0	M10	16	35	30	97.0	105.0	141	95	187	10.0
104.0 - 112.0	M10	16	35	30	104.0	112.0	141	95	187	10.0
112.0 - 120.0	M10	16	35	30	112.0	120.0	158	95	202	12.5
122.0 - 130.0	M10	16	32	30	122.0	130.0	158	95	202	12.5
129.0 - 137.0	M12	16	32	40	129.0	137.0	178	110	230	20.0
137.0 - 145.0	M12	16	32	40	137.0	145.0	186	110	238	25.0
149.0 - 157.0	M12	16	32	40	149.0	157.0	197	110	249	30.0
157.0 - 165.0	M12	16	32	40	157.0	165.0	205	110	255	30.0
164.0 - 172.0	M12	16	32	40	164.0	172.0	212	110	262	30.0



UNI-Rep S2 PN16

Model:

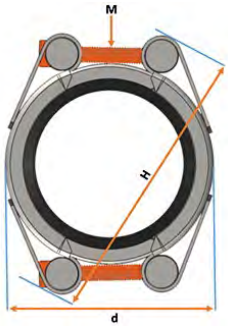
- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

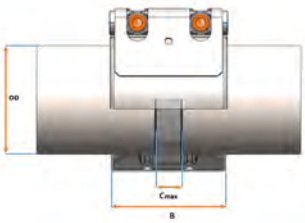
Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

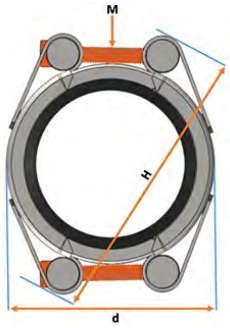


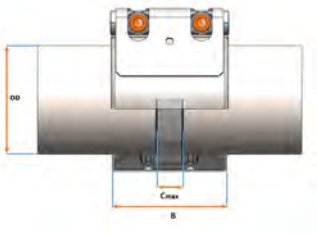


OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
172 - 198	**779 964 024**	0	7.8	**779 962 024**
197 - 223	**779 964 026**	0	8.1	**779 962 026**
221 - 247	**779 964 028**	0	8.4	**779 962 028**
250 - 276	**779 964 030**	0	8.7	**779 962 030**
275 - 301	**779 964 032**	0	10.8	**779 962 032**
302 - 328	**779 964 034**	0	11.3	**779 962 034**
327 - 353	**779 964 036**	0	11.7	**779 962 036**
348 - 374	**779 964 038**	0	16.1	**779 962 038**
374 - 400	**779 964 040**	0	16.8	**779 962 040**
399 - 425	**779 964 042**	0	17.4	**779 962 042**
425 - 451	**779 964 044**	0	18.0	**779 962 044**
447 - 473	**779 964 046**	0	18.6	**779 962 046**
475 - 501	**779 964 048**	0	19.3	**779 962 048**
490 - 516	**779 964 049**	0	19.7	**779 962 049**
507 - 533	**779 964 050**	0	20.1	**779 962 050**
533 - 559	**779 964 052**	0	20.7	**779 962 052**
558 - 584	**779 964 054**	0	21.4	**779 962 054**
587 - 613	**779 964 055**	0	22.1	**779 962 055**
615 - 641	**779 964 057**	0	22.8	**779 962 057**
635 - 661	**779 964 058**	0	23.3	**779 962 058**
663 - 689	**779 964 059**	0	24.0	**779 962 059**
687 - 713	**779 964 061**	0	24.6	**779 962 061**
704 - 730	**779 964 062**	0	25.0	**779 962 062**
719 - 745	**779 964 063**	0	25.4	**779 962 063**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
172 - 198	M12	16	25	40	172	198	236	140	262	30
197 - 223	M12	16	25	40	197	223	261	140	287	30
221 - 247	M12	16	25	40	221	247	285	140	311	30
250 - 276	M12	16	25	40	250	276	314	140	340	30
275 - 301	M16	16	25	40	275	301	339	142	365	30
302 - 328	M16	16	25	40	302	328	366	142	392	30
327 - 353	M16	16	25	40	327	353	391	142	417	50
348 - 374	M16	16	25	40	348	374	412	146	438	50
374 - 400	M16	16	25	40	374	400	438	146	464	50
399 - 425	M16	16	25	40	399	425	463	146	489	50
425 - 451	M16	16	25	40	425	451	489	146	515	50
447 - 473	M16	16	25	40	447	473	511	146	537	50
475 - 501	M16	16	25	40	475	501	539	146	565	50
490 - 516	M16	16	25	40	490	516	554	146	580	50
507 - 533	M16	16	25	40	523	533	575	146	603	60
533 - 559	M16	16	25	40	533	559	601	146	629	60
558 - 584	M16	16	25	40	558	584	626	146	654	60
587 - 613	M16	16	25	40	587	613	655	146	683	60
615 - 641	M16	16	25	40	615	641	683	146	711	70
635 - 661	M16	16	25	40	635	661	703	146	731	70

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OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
663 - 689	M16	16	25	40	663	689	731	146	759	70
687 - 713	M16	16	25	40	687	713	755	146	783	70
704 - 730	M16	16	25	40	704	730	772	146	800	70
719 - 745	M16	16	25	40	719	745	787	146	815	70



UNI-Rep S2 PN10

Model:

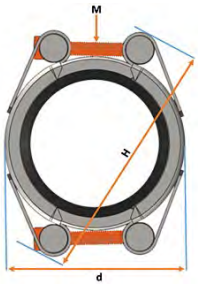
- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

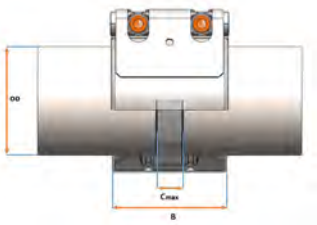
Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

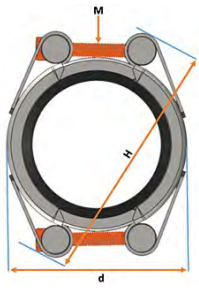
- Sealing type Viton on request

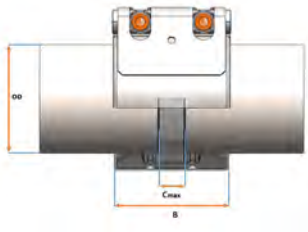




OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
172 - 198	**779 964 124**	0	6.4	**779 962 124**
197 - 223	**779 964 126**	0	6.6	**779 962 126**
221 - 247	**779 964 128**	0	6.8	**779 962 128**
250 - 276	**779 964 130**	0	7.0	**779 962 130**
275 - 301	**779 964 132**	0	9.0	**779 962 132**
302 - 328	**779 964 134**	0	9.4	**779 962 134**
327 - 353	**779 964 136**	0	9.7	**779 962 136**
348 - 374	**779 964 138**	0	12.0	**779 962 138**
374 - 400	**779 964 140**	0	12.4	**779 962 140**
399 - 425	**779 964 142**	0	12.8	**779 962 142**
425 - 451	**779 964 144**	0	13.2	**779 962 144**
447 - 473	**779 964 146**	0	13.6	**779 962 146**
475 - 501	**779 964 148**	0	14.1	**779 962 148**
490 - 516	**779 964 149**	0	14.3	**779 962 149**
507 - 533	**779 964 150**	0	14.6	**779 962 150**
533 - 559	**779 964 152**	0	15.0	**779 962 152**
558 - 584	**779 964 154**	0	15.4	**779 962 154**
587 - 613	**779 964 155**	0	15.9	**779 962 155**
615 - 641	**779 964 157**	0	16.3	**779 962 157**
635 - 661	**779 964 158**	0	16.6	**779 962 158**
663 - 689	**779 964 159**	0	17.1	**779 962 159**
687 - 713	**779 964 161**	0	17.5	**779 962 161**
704 - 730	**779 964 162**	0	17.7	**779 962 162**
719 - 745	**779 964 163**	0	18.0	**779 962 163**

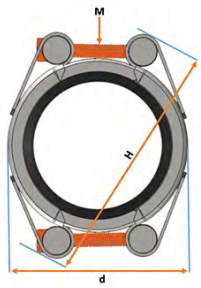
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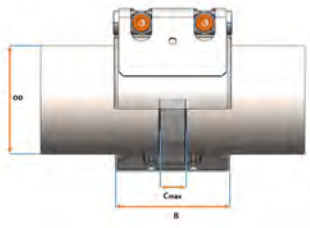




OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
172 - 198	M12	10	16	40	172	198	236	138	262	30
197 - 223	M12	10	16	40	197	223	261	138	287	30
221 - 247	M12	10	16	40	221	247	285	138	311	30
250 - 276	M12	10	16	40	250	276	314	138	340	30
275 - 301	M12	10	16	40	275	301	339	140	365	30
302 - 328	M12	10	16	40	302	328	366	140	392	30
327 - 353	M12	10	16	40	327	353	391	140	417	40
348 - 374	M12	10	16	40	348	374	412	142	438	40
374 - 400	M12	10	16	40	374	400	438	142	464	40
399 - 425	M12	10	16	40	399	425	463	142	489	40
425 - 451	M12	10	16	40	425	451	489	142	515	40
447 - 473	M12	10	16	40	447	473	511	142	537	40
475 - 501	M12	10	16	40	475	501	539	142	565	40
490 - 516	M12	10	16	40	490	516	554	142	580	40
507 - 533	M16	10	16	40	507	533	575	142	603	50
533 - 559	M16	10	16	40	533	559	601	142	629	50
558 - 584	M16	10	16	40	558	584	626	142	654	50
587 - 613	M16	10	16	40	587	613	655	142	683	50
615 - 641	M16	10	16	40	615	641	683	142	711	60
635 - 661	M16	10	16	40	635	661	703	142	731	60
663 - 689	M16	10	16	40	663	689	731	142	759	60
687 - 713	M16	10	16	40	687	713	755	142	783	60
704 - 730	M16	10	16	40	704	730	772	142	800	60
719 - 745	M16	10	16	40	719	745	787	142	815	60







UNI-Rep S2 PN6

Model:

- Housing, Bars and Strip insert (option): Stainless Steel W5 (1.4571) Quality

Temperature/Pressure:

- Operating temperature EPDM: -30°C to 125°C
- Operating temperature NBR: -20°C to 80°C

Option:

- Sealing type Viton on request

OD nominal (mm) (mm)	EPDM Code	SP	Weight (kg)	NBR Code
264 - 290	**779 964 231**	0	7.1	**779 962 231**
275 - 301	**779 964 232**	0	7.2	**779 962 232**
302 - 328	**779 964 234**	0	7.4	**779 962 234**
327 - 353	**779 964 236**	0	7.6	**779 962 236**
348 - 374	**779 964 238**	0	7.8	**779 962 238**
374 - 400	**779 964 240**	0	8.0	**779 962 240**
399 - 425	**779 964 242**	0	8.2	**779 962 242**
425 - 451	**779 964 244**	0	8.4	**779 962 244**
447 - 473	**779 964 246**	0	8.6	**779 962 246**
475 - 501	**779 964 248**	0	8.8	**779 962 248**
490 - 516	**779 964 249**	0	8.9	**779 962 249**
507 - 533	**779 964 250**	0	11.8	**779 962 250**
533 - 559	**779 964 252**	0	12.2	**779 962 252**
558 - 584	**779 964 254**	0	12.5	**779 962 254**
587 - 613	**779 964 255**	0	12.8	**779 962 255**
615 - 641	**779 964 257**	0	13.2	**779 962 257**
635 - 661	**779 964 258**	0	13.4	**779 962 258**
663 - 689	**779 964 259**	0	13.7	**779 962 259**
687 - 713	**779 964 261**	0	14.0	**779 962 261**
704 - 730	**779 964 262**	0	14.2	**779 962 262**
719 - 745	**779 964 263**	0	14.4	**779 962 263**

OD nominal (mm) (mm)	M	PN (bar)	WP (bar)	C max. (mm)	OD min (mm)	OD max. (mm)	d (mm)	B (mm)	H (mm)	Torque (N/m)
264 - 290	M12	6	10	40	264	290	328	138	354	30
275 - 301	M12	6	10	40	275	301	339	138	365	30
302 - 328	M12	6	10	40	302	328	366	138	392	30
327 - 353	M12	6	10	40	327	353	391	138	417	40
348 - 374	M12	6	10	40	348	374	412	138	438	40
374 - 400	M12	6	10	40	374	400	438	138	464	40
399 - 425	M12	6	10	40	399	425	463	138	489	40
425 - 451	M12	6	10	40	425	451	489	138	515	40
447 - 473	M12	6	10	40	447	473	511	138	537	40
475 - 501	M12	6	10	40	475	501	539	138	565	40
490 - 516	M12	6	10	40	490	516	554	138	580	40
507 - 533	M12	6	10	40	507	533	575	140	603	50
533 - 559	M12	6	10	40	533	559	601	140	629	50
558 - 584	M12	6	10	40	558	584	626	140	654	50
587 - 613	M12	6	10	40	587	613	655	140	683	50
615 - 641	M12	6	10	40	615	641	683	140	711	60
635 - 661	M12	6	10	40	635	661	703	140	731	60
663 - 689	M12	6	10	40	663	689	731	140	759	60
687 - 713	M12	6	10	40	687	713	755	140	783	60
704 - 730	M12	6	10	40	704	730	772	140	800	60
719 - 745	M12	6	10	40	719	745	787	140	815	60

Insert stiffener



Insert stiffener Economy

Model:

- Suitable for PE and PVC pipes
- Stainless steel A2 quality (AISI 304), optional A4 quality (AISI 316)
- For pipe sizes > d355 use an insert stiffener with wedge
- Other dimensions available on request

d x e (mm)	SDR	L (mm)	Code	Weight (kg)
40 x 3,7	11.0	100	**709 026 391**	0.200
40 x 2,3	17.6 / 17.0	100	**709 026 392**	0.200
50 x 4,6	11.0	100	**709 026 203**	0.095
50 x 2,9	17.6 / 17.0	100	**709 026 206**	0.102
63 x 5,8	11.0	100	**709 026 211**	0.121
63 x 3,6	17.6 / 17.0	100	**709 026 214**	0.132
63 x 2,0	33	100	**709 026 217**	0.140
63 x 1,5	41	100	**709 026 415**	0.140
75 x 6,8	11.0	100	**709 026 220**	0.152
75 x 4,3	17.6 / 17.0	100	**709 026 223**	0.158
75 x 1,9	41	100	**709 026 227**	0.170
90 x 8,2	11.0	120	**709 026 230**	0.210
90 x 5,2	17.6 / 17.0	120	**709 026 233**	0.227
90 x 2,8	33	120	**709 026 236**	0.243
90 x 2,2	41	120	**709 026 238**	0.247
110 x 10,0	11.0	120	**709 026 242**	0.257
110 x 6,3	17.6 / 17.0	120	**709 026 245**	0.279
110 x 3,4	33	120	**709 026 248**	0.299
110 x 2,7	41	120	**709 026 250**	0.302
125 x 11,4	11.0	120	**709 026 254**	0.293
125 x 7,2	17.6 / 17.0	120	**709 026 257**	0.317
140 x 12,7	11.0	140	**709 026 266**	0.383
140 x 8,0	17.6 / 17.0	140	**709 026 269**	0.416
160 x 14,6	11.0	140	**709 026 278**	0.655
160 x 9,1	17.6 / 17.0	140	**709 026 281**	0.711
160 x 4,9	33	140	**709 026 284**	0.760
160 x 4,0	41	140	**709 026 286**	0.770
180 x 16,4	11.0	140	**709 026 290**	0.739
180 x 10,7	17.0	140	**709 026 408**	0.801
180 x 10,3	17.6	140	**709 026 293**	0.804
200 x 18,2	11.0	160	**709 026 302**	0.940
200 x 11,9	17.0	160	**709 026 409**	1.018
200 x 11,4	17.6	160	**709 026 305**	1.024
200 x 6,1	33	160	**709 026 308**	1.090
200 x 4,9	41	160	**709 026 310**	1.104
225 x 20,5	11.0	160	**709 026 314**	1.060
225 x 13,4	17.0	160	**709 026 410**	1.146
225 x 12,8	17.6	160	**709 026 317**	1.155
250 x 22,8	11.0	160	**709 026 326**	1.567
250 x 14,8	17.0	160	**709 026 411**	1.697
250 x 14,3	17.6	160	**709 026 329**	1.705
250 x 7,6	33	160	**709 026 332**	1.817
250 x 6,1	41	160	**709 026 334**	1.840
280 x 25,5	11.0	160	**709 026 338**	1.760
280 x 16,6	17.0	160	**709 026 340**	1.904
280 x 16,0	17.6	160	**709 026 341**	1.914
315 x 28,7	11.0	160	**709 026 350**	1.979
315 x 18,7	17.0	160	**709 026 413**	2.144
315 x 17,9	17.6	160	**709 026 353**	2.157
315 x 9,6	33	160	**709 026 356**	2.294

table continued on the next page

d x e (mm)	SDR	L (mm)	Code	Weight (kg)
315 x 7,7	41	160	**709 026 358**	2.324
355 x 32,3	11.0	160	**709 026 362**	2.324
355 x 21,1	17.0	160	**709 026 414**	2.416
355 x 20,2	17.6	160	**709 026 365**	2.431



Insert stiffener with wedge for UNI-Coupling - VG-D

Model:

- Suitable for PE, PP and PB pipes
- Stainless steel A2 quality (AISI 304)
- Other dimensions available on request

Code	SP	Weight (kg)	GP	d x e (mm)	L (mm)	SDR
709 026 133	0	1.000	0	370 x 35.0	225	11.0
709 026 139	0	2.561	0	400 x 22.7	225	17.6
709 026 138	0	1.000	0	400 x 36.4	225	11.0
709 026 149	0	1.000	0	450 x 25.5	225	17.6
709 026 148	0	3.350	0	450 x 41.0	225	11.0
709 026 159	0	0.360	0	500 x 28.3	225	17.6
709 026 158	0	1.000	0	500 x 45.5	225	11.0
709 026 169	0	3.900	0	560 x 31.7	225	17.6
709 026 168	0	1.000	0	560 x 51.0	225	11.0
709 026 179	0	4.789	0	630 x 35.7	225	17.6
709 026 178	0	4.470	0	630 x 57.3	225	11.0
709 026 189	0	1.000	0	710 x 40.2	225	17.6
709 026 188	0	1.000	0	710 x 64.5	225	11.0
709 026 199	0	1.000	0	800 x 45.3	225	17.6
709 026 198	0	1.000	0	800 x 72.7	225	11.0
709 026 183	0	1.070	0	900 x 51.2	225	17.6
709 026 182	0	1.070	0	900 x 81.8	225	11.0
709 026 191	0	1.150	0	1000 x 56.8	225	17.6
709 026 192	0	1.070	0	1000 x 90.9	225	11.0
709 026 184	0	1.070	0	1200 x 109.1	225	11.0
709 026 187	0	1.070	0	1400 x 79.6	225	17.6
709 026 186	0	1.070	0	1400 x 127.3	225	11.0
709 026 196	0	1.070	0	1600 x 90.9	225	17.6
709 026 195	0	1.070	0	1600 x 145.5	225	11.0



Insert stiffener with wedge for PVC pipes SDR21 - VG-D

Model:

- Stainless steel A2 quality (AISI 304), optional A4 quality (AISI 316)

d x e (mm)	PN (bar)	Code
50 x 2.4	10	**709 026 207**
75 x 3.6	10	**709 026 027**
63 x 3.0	10	**709 026 019**
90 x 4.3	10	**709 026 039**
110 x 5.3	10	**709 026 049**
125 x 6.0	10	**709 026 058**
140 x 6.7	10	**709 026 067**
160 x 7.7	10	**709 026 079**
180 x 8.6	10	**709 026 088**
200 x 9.6	10	**709 026 094**
225 x 10.8	10	**709 026 101**
250 x 11.9	10	**709 026 105**
280 x 13.4	10	**709 026 145**
315 x 15.0	10	**709 026 123**



Insert stiffener with wedge for PVC pipes SDR13,5 - VG-D

Model:

- Stainless steel A2 quality (AISI 304), optional A4 quality (AISI 316)

d x e (mm)	PN (bar)	Code
63 x 4.7	16	**709 026 015**
75 x 5.6	16	**709 026 024**
90 x 6.7	16	**709 026 035**
110 x 8.2	16	**709 026 045**
125 x 9.3	16	**709 026 054**
140 x 10.4	16	**709 026 063**
160 x 11.9	16	**709 026 074**

Accessories





UNI-Fire Ø 21 - 223 mm
Fire Protective Housing

suitable for any type of coupling
Transforms regular couplings into fire protective couplings

- Other dimensions available on request

Model:

- Stainless steel 1.4571 (W5) quality

Code	Weight (kg)	d (mm)	OD min (mm)	OD max. (mm)	B (mm)	H (mm)
779 773 001	0.1	61	21.0	29.0	95	91
779 773 002	0.1	69	29.0	36.0	95	99
779 773 003	0.2	81	36.0	43.0	110	119
779 773 004	0.2	89	43.0	52.5	110	127
779 773 005	0.3	100	52.5	64.0	125	140
779 773 006	0.5	123	64.0	80.0	145	179
779 773 007	0.6	139	80.0	97.0	145	185
779 773 008	0.6	156	97.0	113.0	145	202
779 773 009	0.7	173	113.0	130.0	145	217
779 773 010	0.9	193	130.0	138.0	160	245
779 773 011	0.9	201	138.0	149.0	160	253
779 773 012	8.3	212	149.0	157.0	160	264
779 773 013	1.0	220	157.0	164.0	160	270
779 773 014	1.0	227	164.0	213.0	160	277
779 773 015	1.0	276	213.0	223.0	190	302





Fitting Plier

Mode of action:

- For convenient assembling of the UNI-Rep couplings we recommend to use a plier
- The plier uses the bores in the housing in order to close the coupling
- In case of bigger diameter (>300mm) use a fitting belt

Code	Weight (kg)	OD min (mm)	OD max. (mm)
779 245 000	1.5	36	238

Local experts and help around the clock

Our experienced specialists are located in 34 countries and are therefore always close at hand. You can obtain information and assistance on our website at any time of day or night.

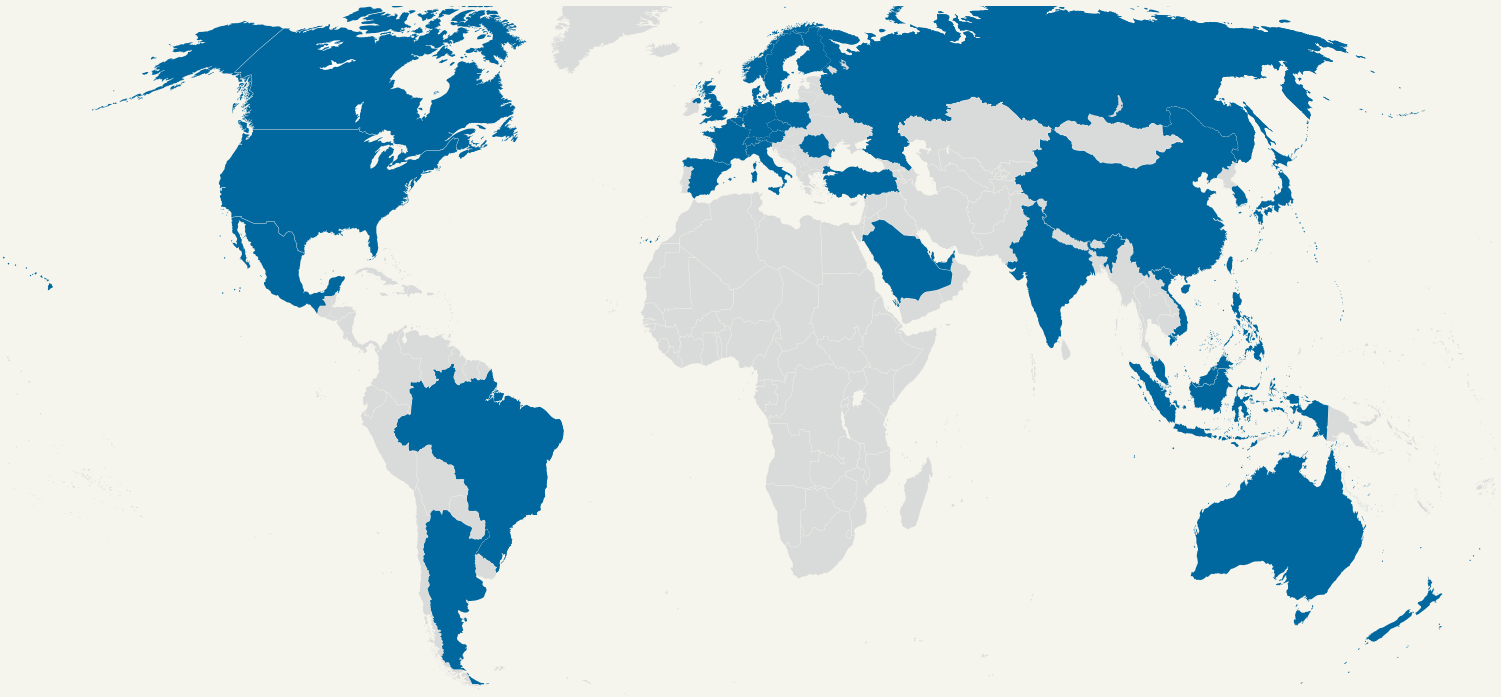
Help in all project phases

The GF Piping Systems website is a work platform that offers practical assistance for optimum planning, installation, and operation of your system. We provide individual support and application-oriented services along the entire lifecycle of your installation. You can rely on local expert teams, individually tailored training courses as well as on practical online, planning and installation tools. Equipped with the right know-how you can reduce the risk of faulty design and construction work.



Local contacts

GF Piping Systems is represented in 34 countries with its own sales and production companies and experienced experts. This means that you always have local contact partners that can support you throughout all phases of your project. Our experts know the local requirements and specific features and can recommend you solutions that can be used safely and reliably for the project site. This also applies to projects spanning several countries and continents.



Services of GF Piping Systems

Optimal planning, installation and operation

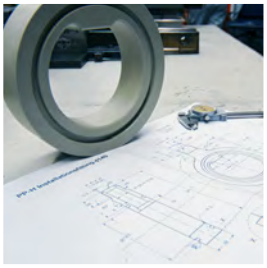
The specialists at GF Piping Systems support you throughout all phases of your project. They help you to optimally plan, install and operate your plastic piping system. Therefore, they reduce unnecessary time and material losses for you and keep downtimes and other risks as short as necessary.



Recommended services



Engineering
We check the design of your piping system, support you with the choice of materials and components as well as with the correct installation. Our 60 years of experience with plastic systems help you to reduce your own risks.



Customizing
Customized special parts and solutions for special tasks are available in all required dimensions. Even unusual applications in challenging installation scenarios can be implemented easily, safely and on time.



Off-site pre-assemblies
Shorten the time period from planning to commissioning with factory pre-insulated components and project-specific pre-assemblies. This means that projects can be executed cost efficiently and according to schedule.



Fit for Service NDT
The non-destructive examination of the welded joint in your plastic piping system with advanced risk assessment and 10-year guarantee. NDT removes avoidable material and work time losses and increases the safety of the system.

Next steps

In this brochure you have received the most important information and technical details. But nothing replaces a personal conversation with an expert from GF Piping Systems. It is all about your needs and how we can support you in your daily business challenges. If you have not already done so, make an appointment today.

On the GF Piping Systems website you will find specialized contact persons in your area. There you will also find further information on the product, including technical data sheets and operating instructions as well as relevant certificates and approvals.

- Appointment with an expert from GF Piping Systems
- Advice on the benefits of the solution for you
- Information on reference applications
- Help with selection and calculations
- Support in all project phases

Find out more

www.gfps.com/marine

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