

iFIT



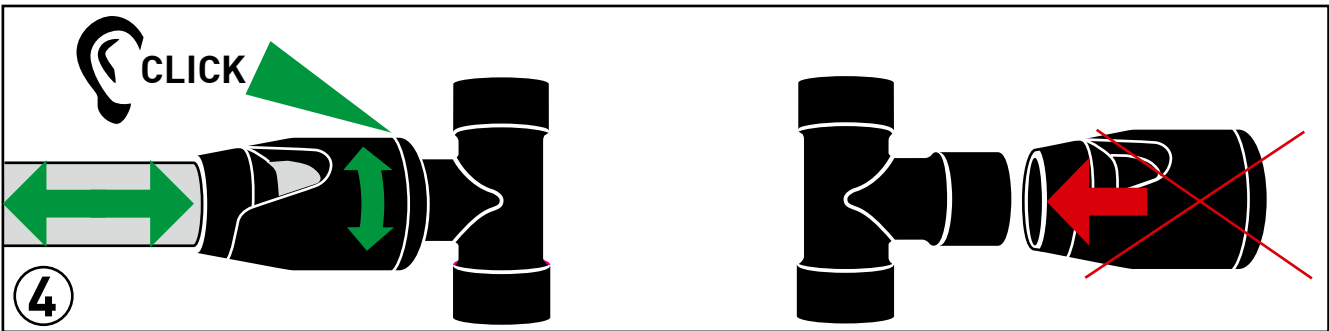
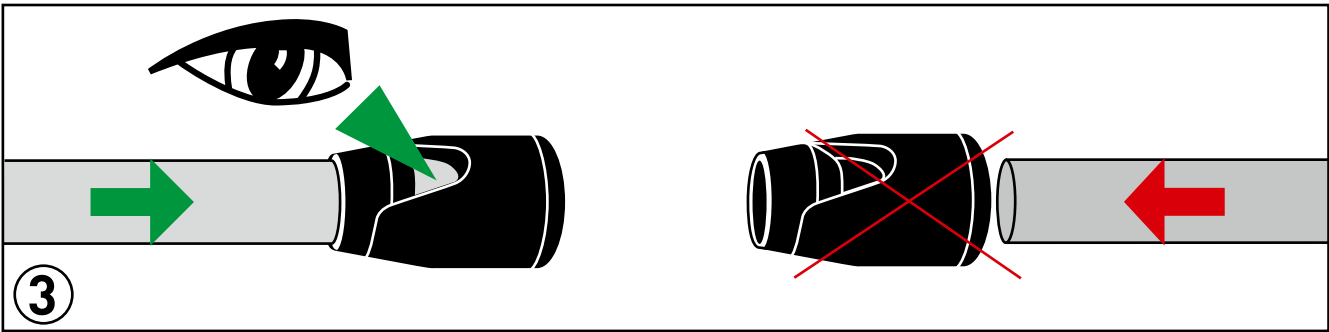
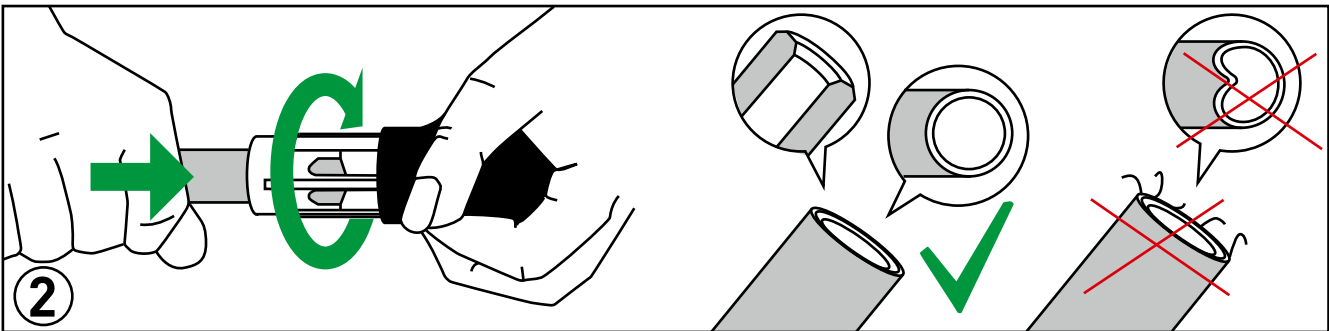
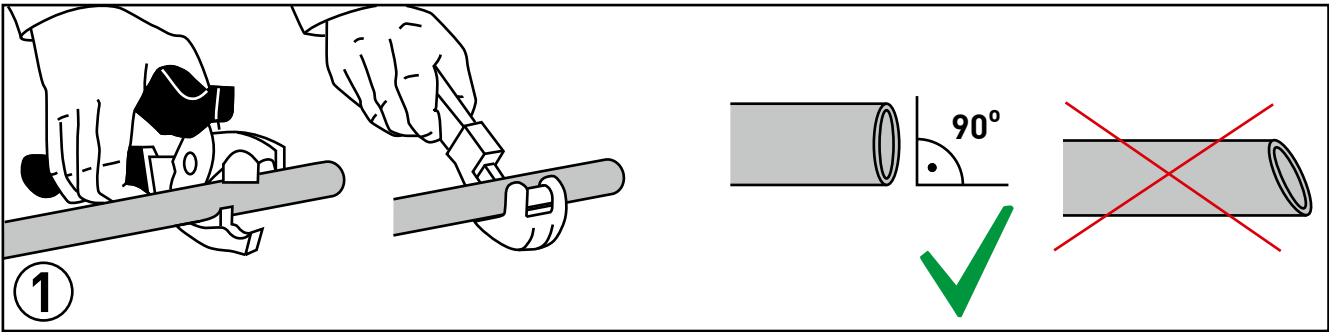
System overview iFIT

iFIT – the innovative push fit jointing system for heating and plumbing with a safety check you can see and hear. Never before have polybuten and multilayer pipes been so easy, fast and safe to install in the dimensions 16, 20, 25 and 32.



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Working with iFIT



Approvals iFIT

+ LAND-BASED



AENOR

Spanish Association for
Standardisation and Certification

001/005182
001/005183
001/006239



ÖVGW

Österreichische Vereinigung für das
Gas- und Wasserfach, Austria

W 4.425
W 1.424



aTg (BCCA)

Belgian Construction Certification
Association

13/ 2723



SVGW

Schweizerische Verein des Gas- und
Wasserfaches, Switzerland

W 0406 - 4834



DVGW

Deutscher Verein des Gas- und
Wasserfaches e.V., Germany

DW-850BP0047
DW-8501BP0059



VKF

Vereinigung Kantonaler Feuer-
versicherungen, Switzerland

24759
24757



kiwa

Kiwa N.V., Netherlands

K48947/01
K44842/02
K44843/02
K44872/02



SP (SITAC)

Sveriges Tekniska Forskningsinstitut,
Sweden

0070/05



KOMO

KOMO N. V., Netherlands Postbus 70
2280 AB Rijswijk

K44871/02
K44872/02



WRAS

Water Regulation Advisory Scheme,
England

1312518
1403329

Approvals iFIT

+ MARINE



ABS
American Bureau of Shipping

14-GD1218536-PDA



RINA
Royal Institution of Naval Architects,
England

MAC375614CS



DNV-GL
Det Norske Veritas- Germanischer
Lloyd, Norway

74455-96HH



BV
Bureau Veritas, France

35855/AO BV



LR
Lloyd's Register, England

12/00071(E3)



CCS
China Classification Society

SH13G00019
SH13G00020



Class NK
Nippon Kaiki Kypokai, Japan

13008H



RMROS
Russian Maritime Register of
Shipping

15.40030.250

Technical Data

Pressure loss chart iFIT (10 °C)

Pressure loss chart for iFIT PB- and ML pipes:

Pipe friction loss in relation to flow rate

Basis of calculation:

Water temperature = 10°C

Surface roughness k = 0.007 mm

Viscosity = 0.00131 Pa·s

Density ρ = 999.70 kg/m³

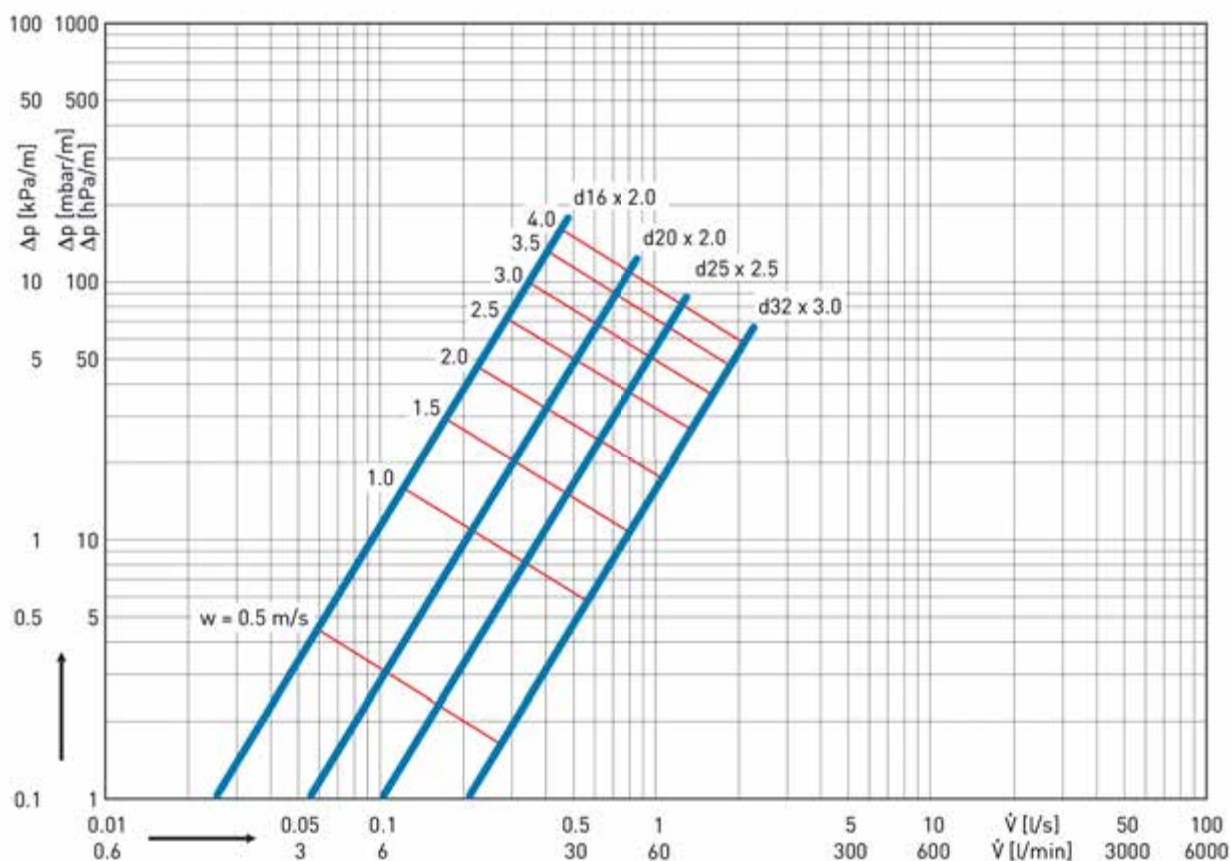
Recommended flow velocity according SVGW guideline W3/2013:

max. 4.0 m/s for single outlet lines

max. 3.0 m/s for apparatus lines

max. 3.0 m/s for floor distribution lines

max. 2.0 m/s for distribution lines



Technical Data

Pressure loss chart iFIT (60 °C)

Pressure loss chart for iFIT PB- and ML pipes:

Pipe friction loss in relation to flow rate

Basis of calculation:

Water temperature = 60°C

Surface roughness k = 0.007 mm

Viscosity = 0.00013 Pa·s

Density ρ = 983.19 kg/m³

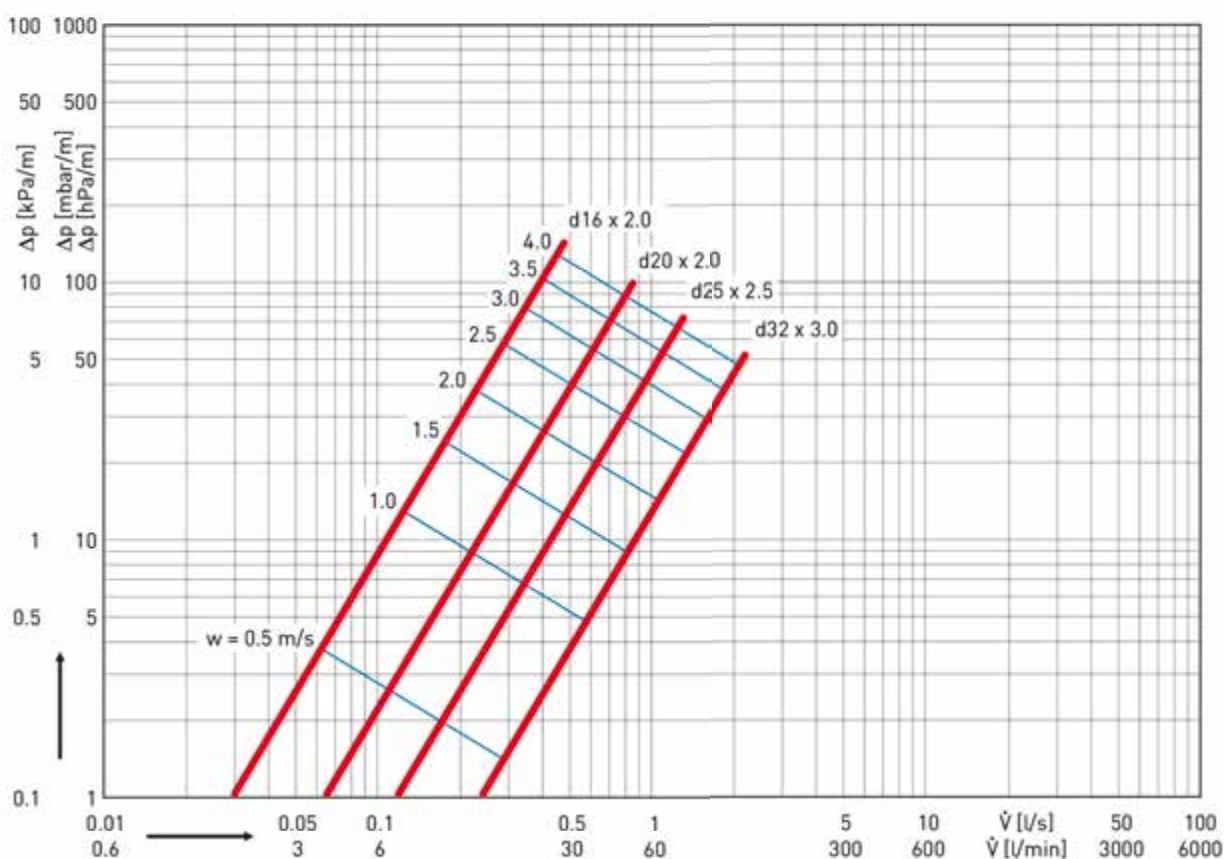
Recommended flow velocity according SVGW guideline W3/2013:

max. 4.0 m/s for single outlet lines

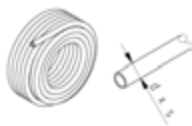
max. 3.0 m/s for apparatus lines

max. 3.0 m/s for floor distribution lines

max. 2.0 m/s for distribution lines



Pipes



Polybutene pipe (coiled)

Packed in cardboard boxes
PB pipe in coils without protective pipe
Without oxygen barrier

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



Polybutene pipe in protective pipe (coiled)

Packed in cardboard boxes
PB pipe in coils in protective pipe
Without oxygen barrier

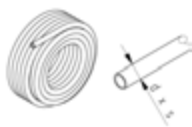
d (mm)	s (mm)	Code	SP	Weight (kg)	D (mm)
16	2.0	762 101 012	60	0.164	25
20	2.0	762 101 013	60	0.207	30
25	2.5	762 101 011	30	0.286	34



Polybutene pipe 5,0 m (bars)

Packed in cardboard boxes
Without oxygen barrier
* on request

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



Multilayer pipe (coiled)

Packed in cardboard boxes
Multilayer pipe in coils without protective pipe

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



Multilayer pipe in protective pipe (coiled)

Packed in cardboard boxes
Multilayer pipe in coils in protective pipe

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

Multilayer pipe 5,0 m (bars)

Packed in cardboard boxes



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

Multilayer pipe insulated 6 mm (coiled)

Packed in protective wrap
Multilayer pipe in coils



d (mm)	s (mm)	Code	SP	Weight (kg)	d1 (mm)	s1 (mm)
16	2.0	762 101 024	50	0.150	28	6
20	2.0	762 101 032	50	0.200	32	6
25	2.5	762 101 043	25	0.400	37	6

Multilayer pipe insulated 9 mm (coiled)

Packed in protective wrap
Multilayer pipe in coils



d (mm)	s (mm)	Code	SP	Weight (kg)	d1 (mm)	s1 (mm)
16	2.0	762 101 076	50	0.230	34	9
20	2.0	762 101 078	50	0.188	38	9
25	2.5	762 101 082	25	0.450	43	9

Multilayer pipe insulated 13 mm (coiled)

Packed in protective wrap
Multilayer pipe in coils
* on request



	s	d	Code	SP	Weight	d1
	(mm)	(mm)			(kg)	(mm)
*	13	16	762 101 086	50	0.300	42
*	13	20	762 101 090	50	0.400	46
*	13	25	762 101 104	25	0.500	51

Accessories for pipes



Wall inlet plug

d (mm)	Code	SP	Weight (kg)
16	762 101 150	1	0.253
20	762 101 151	1	0.257
25	762 101 152	1	0.223
32	762 101 153	1	0.380



Pipe draw coupling

d (mm)	Code	SP	Weight (kg)
16	762 101 154	1	0.044
20	762 101 155	1	0.090



Cap for protective pipe



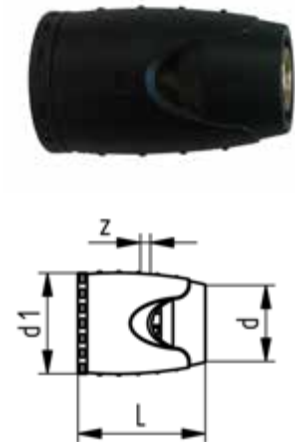
d (mm)	Colors	Code	SP	Weight (kg)	D (mm)	L (mm)
16	red	762 101 234	10	0.006	25	70
16	blue	762 101 235	10	0.005	25	70
20	red	762 101 236	10	0.006	30	70
20	blue	762 101 237	10	0.005	30	70

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



iFIT-FLEXALINO special adaptor

* on request

	d (mm)	d1 (mm)	Code	SP	Weight (kg)	z (mm)	l (mm)
*	16	30	762 101 050	10	0.048	5	48



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



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

Modules



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



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



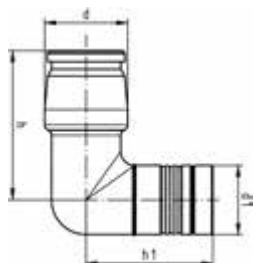
Elbow module 90°

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



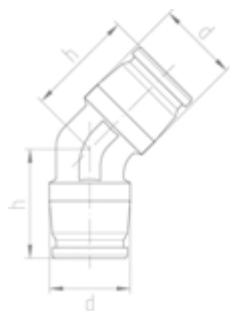
Elbow module 90° - pipe outline

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



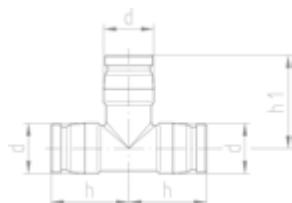
Elbow module 45°

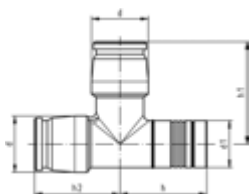
d (mm)	Code	SP	Weight (kg)	h (mm)
25 - 32	762 101 180	5	0.033	40



T-piece module

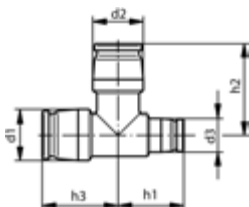
d (mm)	Code	SP	Weight (kg)	h (mm)	h1 (mm)
16 - 20	762 101 042	10	0.017	31	37
25 - 32	762 101 181	5	0.053	45	54





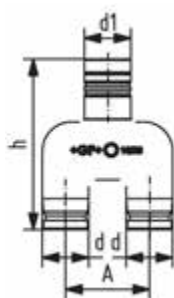
T-piece module - pipe outline

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



T- piece module - reduced

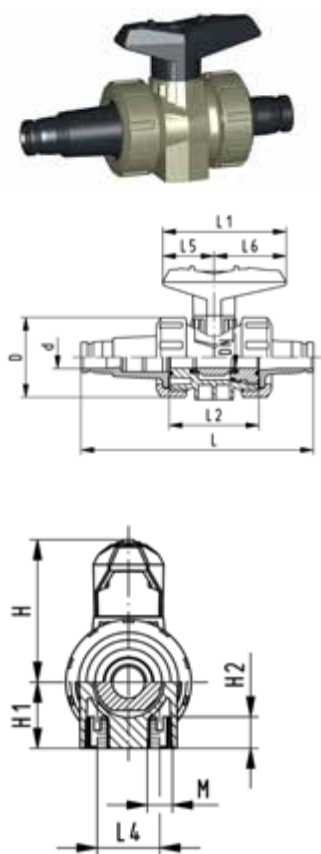
d1 (mm)	d2 (mm)	d3 (mm)	Code	SP	Weight (kg)	H1 (mm)	H2 (mm)	H3 (mm)
25 - 32	25 - 32	16 - 20	762 101 183	2	0.045	45	54	39
25 - 32	16 - 20	25 - 32	762 101 185	2	0.044	45	48	45
25 - 32	16 - 20	16 - 20	762 101 187	2	0.036	45	48	39



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

Valves



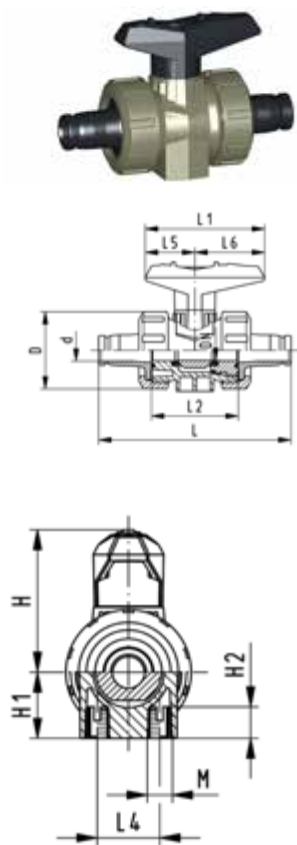
PROGEF Standard
Shipbuilding ball valve type 547
With iFIT connection

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

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



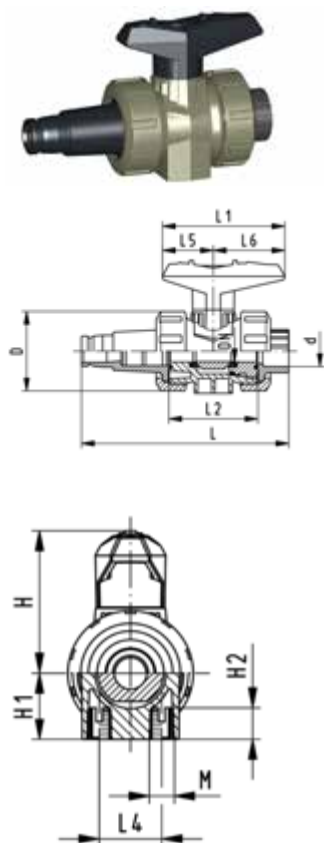
PROGEF Standard
Shipbuilding ball valve type 547
With iFIT connection

Model:

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

d	DN	PN	kv-value	EPDM	SP	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)
			(l/min)			
20	15	10	185	167 547 812	2	0.152

d	D	H	H1	H2	L	L1	L2	L4	L5	L6	M
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	50	57	27	12	126	77	56	25	32	45	6



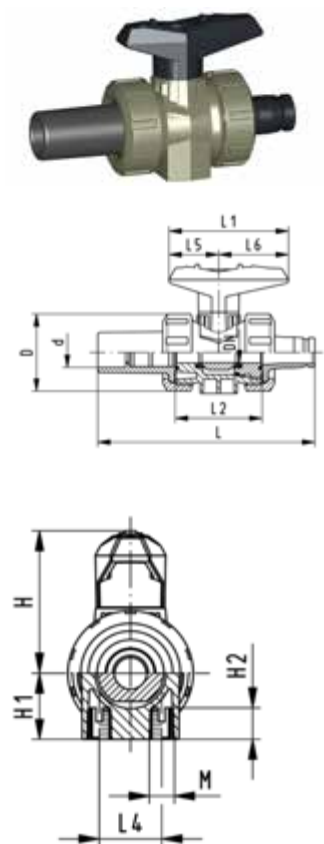
PROGEF Standard
Shipbuilding ball valve type 547
With iFIT connection and fusion socket PB

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

d	D	H	H1	H2	L	L1	L2	L4	L5	L6	M
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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



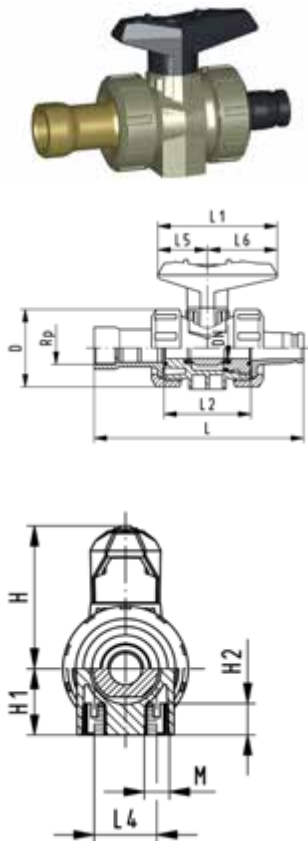
PROGEF Standard
Shipbuilding ball valve type 547
With fusion socket PB and iFIT connection

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

d	D	H	H1	H2	L	L1	L2	L4	L5	L6	M
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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

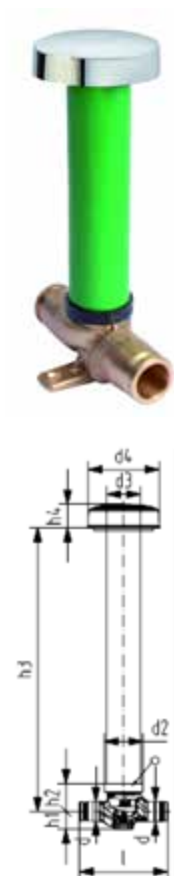
Rp	DN	PN	kv-value	EPDM	SP	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code		(kg)
			(l/min)			
½	15	10	40	167 547 512	2	0.327

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



Service housing end connector kit with iFIT connector

d	Size	DN	Code	SP
(mm)	(inch)	(mm)		
20	½	15	167 547 902	1



Concealed shut-off valve

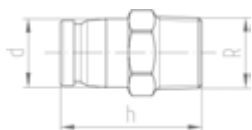
d (mm)	Code	SP	Weight (kg)	d2 (mm)	d3 (mm)	d4 (mm)	h1 (mm)	h2 (mm)	h3 (mm)	h4 (mm)	l (mm)
16 - 20	762 101 227	1	0.300	39	34	71	18	28	43 - 270	24	88
25 - 32	762 101 228	1	0.500	39	34	71	27	28	43 - 270	24	112



Manifold shut-off valve

d (mm)	Code	SP	Weight (kg)	d2 Rp (inch)	d3 G (inch)	d4 (mm)	l (mm)	l2 (mm)	h (mm)	z1 (mm)
25 - 32	762 101 229	1	0.440	¾	¾	53	90	52	82	23

Transition modules



Transition module - male thread

* low lead

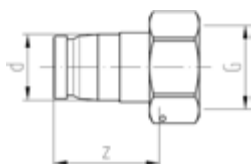
	d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)
	16 - 20	1/2	762 101 038	10	0.061	42
	16 - 20	3/4	762 101 039	10	0.078	43
	25 - 32	3/4	762 101 091	2	0.144	51
	25 - 32	1	762 101 092	2	0.189	55
*	16 - 20	1/2	762 101 265	10	0.060	42
*	16 - 20	3/4	762 101 266	10	0.071	43
*	25 - 32	3/4	762 101 277	2	0.135	51
*	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	1/2	762 101 040	10	0.067	36	23
	16 - 20	3/4	762 101 041	10	0.087	39	24
	25 - 32	3/4	762 101 093	2	0.131	45	31
	25 - 32	1	762 101 094	2	0.163	49	32
*	16 - 20	1/2	762 101 267	10	0.065	36	23
*	16 - 20	3/4	762 101 268	10	0.085	39	24
*	25 - 32	3/4	762 101 279	2	0.127	45	31
*	25 - 32	1	762 101 280	2	0.175	49	32



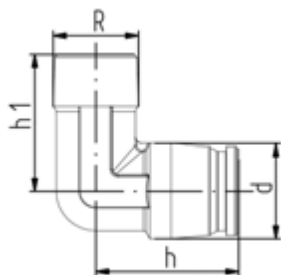
Transition union module - flat sealed

Supplied with sealing

** on request

* low lead

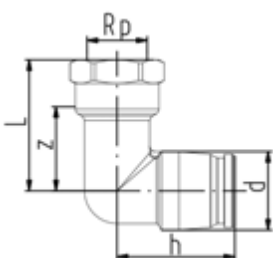
	d (mm)	G (inch)	Code	SP	Weight (kg)	z (mm)
**	16 - 20	1/2	762 101 088	2	0.080	41
	16 - 20	3/4	762 101 056	2	0.085	35
	25 - 32	3/4	762 101 095	2	0.170	48
	25 - 32	1	762 101 096	2	0.233	55
	25 - 32	1 1/4	762 101 097	2	0.266	48
	25 - 32	1 1/2	762 101 098	2	0.339	50
*,**	16 - 20	1/2	762 101 276	2	0.695	41
*	16 - 20	3/4	762 101 273	5	0.075	35
*	25 - 32	3/4	762 101 281	2	0.155	48
*	25 - 32	1	762 101 282	2	0.180	55
*	25 - 32	1 1/4	762 101 283	2	0.252	48
*	25 - 32	1 1/2	762 101 284	2	0.357	50



Transition elbow module - male thread

* low lead

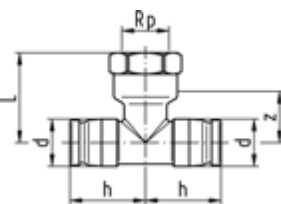
	d (mm)	R (inch)	Code	SP	Weight (kg)	h (mm)	h1 (mm)
	16 - 20	1/2	762 101 051	10	0.071	30	34
	16 - 20	3/4	762 101 052	10	0.076	30	35
	25 - 32	3/4	762 101 099	2	0.189	45	43
	25 - 32	1	762 101 100	2	0.214	45	45
*	16 - 20	1/2	762 101 270	10	0.071	30	34
*	16 - 20	3/4	762 101 271	10	0.076	30	35
*	25 - 32	3/4	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

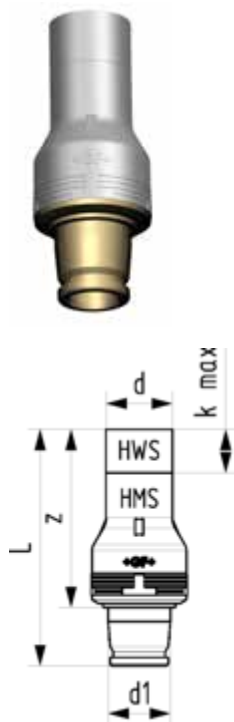
	d (mm)	Rp (inch)	Code	SP	Weight (kg)	L (mm)	h (mm)	z (mm)
	16 - 20	1/2	762 101 101	10	0.102	38	32	25
	16 - 20	3/4	762 101 105	10	0.120	40	36	22
	25 - 32	3/4	762 101 102	5	0.211	50	45	33
*	16 - 20	1/2	762 101 287	10	0.102	38	32	25
*	16 - 20	3/4	762 101 290	10	0.120	40	36	22
*	25 - 32	3/4	762 101 288	5	0.211	50	45	33



Transition Tee module - female thread

* low lead

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	L (mm)	h (mm)	z (mm)
	16 - 20	1/2	762 101 055	5	0.129	38	32	25
	25 - 32	3/4	762 101 103	2	0.291	50	43	35
*	16 - 20	1/2	762 101 272	5	0.129	38	32	25
*	25 - 32	3/4	762 101 289	2	0.291	50	43	35

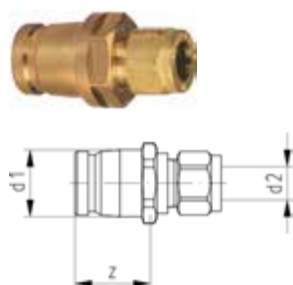


Transition module iFIT-INSTAFLEX

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



Transition module - iFIT/copper

** on request

* low lead

	d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	z (mm)
	16 - 20	10	762 101 089	10	0.070	22
	16 - 20	12	762 101 210	10	0.052	19
	16 - 20	15	762 101 211	10	0.064	22
*, **	16 - 20	12	762 101 292	10	0.050	19
*, **	16 - 20	15	762 101 293	10	0.060	22



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/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

Accessories for modules



Plug module-side

With air-vent screw 1/2"

d (mm)	Code	SP	Weight (kg)
16 - 20	762 101 207	1	0.140
25 - 32	762 101 208	1	0.196

Outlet joints



Single pipe outlet with box

Accessories from the JRG Sanipex product range.
Box brackets, distance plates and other accessories may be found under the catalogue numbers 5409 and 5741.

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	H (mm)	h (mm)
	16 - 20	½	762 101 224	10	0.205	51	50
	16 - 20	¾	762 101 225	10	0.213	51	50
*	16 - 20	½	762 101 303	10	0.205	51	50
*	16 - 20	¾	762 101 304	10	0.200	51	50

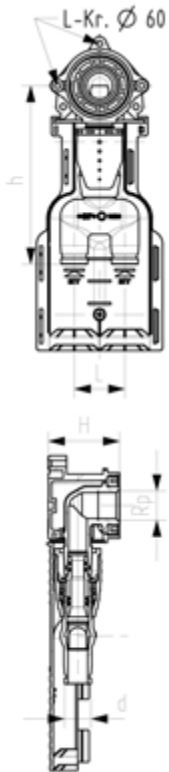


Dual pipe outlet with box

Accessories from the JRG Sanipex product range.

Box brackets, distance plates and other accessories may be found under the catalogue numbers 5409 and 5741.

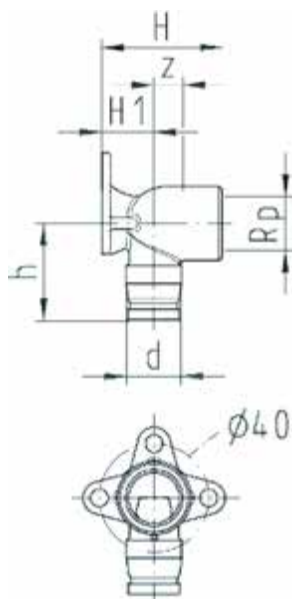
	d (mm)	Rp (inch)	Code	SP	Weight (kg)	H (mm)	h (mm)	L (mm)
	16 - 20	½	762 101 226	1	0.320	51	128	36
*	16 - 20	½	762 101 305	1	0.320	51	128	36





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	762 101 018	10	0.153	44	19	36	12
*	16 - 20	½	762 101 259	10	0.130	44	19	36	12
	16 - 20	½	762 101 070	5	0.188	64	19	36	32
*	16 - 20	½	762 101 274	5	0.188	64	19	36	32
	16 - 20	½	762 101 242	2	0.272	95	19	39	63
	16 - 20	¾	762 101 019	2	0.173	44	19	39	11
*	16 - 20	¾	762 101 260	2	0.173	44	19	39	11

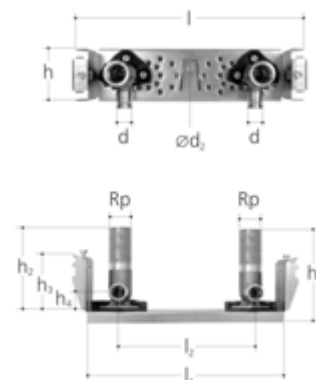


Plate for GIS profile with iFIT fitting connections

Made of galvanized steel, fitting connections with female thread, pressure plug made of plastic and fixing clip to washbasin, noise absorbing element and sealing gasket made of rubber, suitable for: Geberit system (GIS)

d (mm)	Rp (inch)	Code	SP	Weight (kg)	d2 (mm)	h (mm)	h1 (mm)	h2 (mm)	h3 (mm)	h4 (mm)	l (mm)	l1 (mm)	l2 (mm)
16 - 20	½	762 101 240	1	0.925	10	64	111	98	71	22	248	223	153

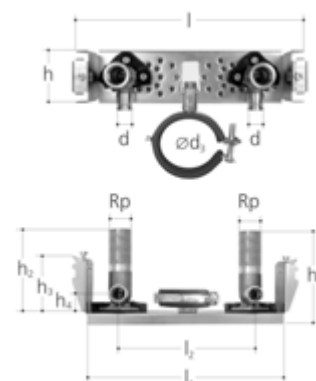


Plate for GIS profile with drain pipe clamp

Made of galvanized steel, drain pipe clamp, fitting connections with female thread, pressure plug made of plastic and fixing clip to washbasin, noise absorbing element and sealing gasket made of rubber, suitable for: Geberit system (GIS)

d (mm)	Rp (inch)	Code	SP	Weight (kg)
16 - 20	½	762 101 241	1	1.015

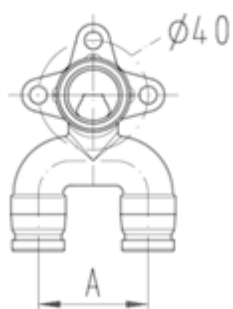
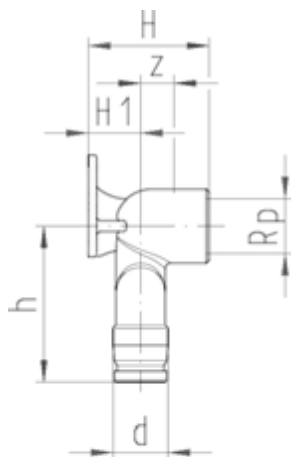
d (mm)	Rp (inch)	d2 (mm)	d3 (mm)	h (mm)	h1 (mm)	h2 (mm)	h3 (mm)	h4 (mm)	l (mm)	l1 (mm)	l2 (mm)
16 - 20	½	10	50 - 70	64	111	98	71	22	248	223	153



Dual pipe outlet module

Applicable for light and wood construction
* low lead

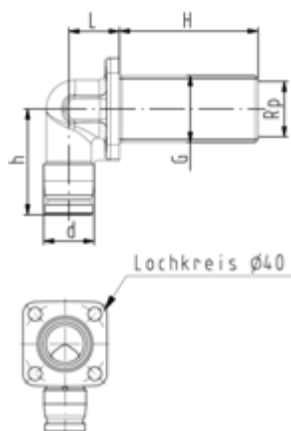
	d (mm)	Rp (inch)	Code	SP	Weight (kg)	A (mm)	H (mm)	H1 (mm)	h (mm)	z (mm)
	16 - 20	½	762 101 022	60	0.240	40	44	19	57	12
	16 - 20	½	762 101 071	2	0.282	40	64	19	57	32
*	16 - 20	½	762 101 261	2	0.240	40	44	19	57	12
*	16 - 20	½	762 101 275	2	0.282	40	64	19	57	32



Single pipe outlet module 1/2" - 3/4"

* low lead

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	H (mm)	h (mm)	G (inch)	L (mm)
	16 - 20	½	762 101 047	1	0.197	55	42	¾	20
*	16 - 20	½	762 101 269	1	0.197	55	42	¾	20



Accessories for outlet joints

Mounting bolt



G (inch)	Code	SP	Weight (kg)
1/2	760 853 291	5	0.138

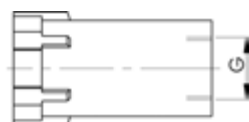
Wall inlet plug



*Replacement seal code no. 760 853 175, on request

G (inch)	Code	SP	Weight (kg)
1/2	760 853 297	10	0.088

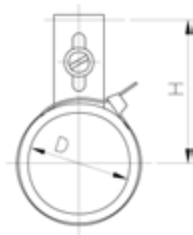
Fastening sleeve



From the INSTAFLEX range

Rp (inch)	Code	SP	Weight (kg)
1/2	760 853 298	10	0.050

Bracket for waste pipe

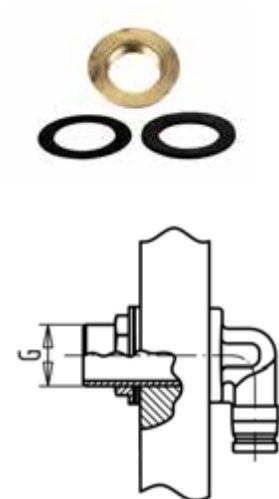


D (mm)	Code	SP	Weight (kg)	H (mm)
56	760 854 677	1	0.032	65 - 80

Installation bar



L (mm)	Code	SP	Weight (kg)
2000	760 853 683	5	2.840



Fastening set

Appropriate to outlet joint with male thread
Consists of: Union nut, washer, seal

Code	SP	Weight (kg)
760 854 699	10	0.031



Sound proofing for pipe outlet

H (mm)	Code	SP	Weight (kg)
11	762 101 033	10	0.011



Sound proofing for pipe outlet

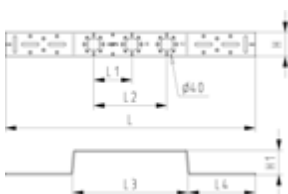
Single or double

	Code	SP	Weight (kg)
Set double	762 101 037	2	0.123
Set single	762 101 036	5	0.077

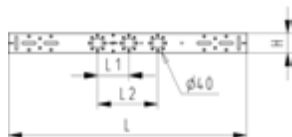


Angular plate

With hole circle 40 and thread M 6
From the INSTAFLEX range
* suitable also for GIS



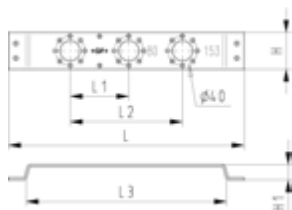
L		Code	SP	Weight	L1	L2	L3	L4	H	H1	
(mm)				(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
	370	single	760 869 917	5	0.461			80	145	50	51
	470	double	760 869 916	5	0.566	100		180	145	50	51
*	523	triple	760 869 915	5	0.601	80	153	233	145	50	51
*	523	double	760 856 042	5	0.600		153	233	145	50	51



Distance plate - flat

With hole circle 40 and thread M6
From the INSTAFLEX range

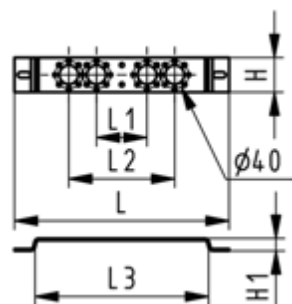
L (mm)		Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	H (mm)
452	single	760 869 920	5	0.464			50
552	double	760 869 919	5	0.564	100		50
605	triple	760 869 918	5	0.624	80	153	50



Distance plate for dry lined walls

Lightweight construction walls
With hole circle 40 and thread M6

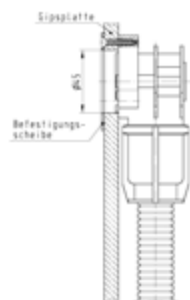
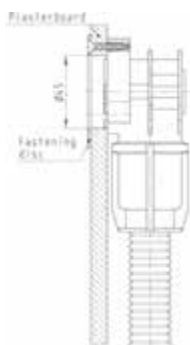
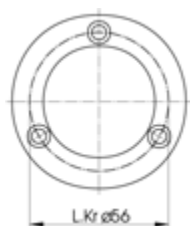
L (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)
321	760 869 921	5	0.374	80	153	273	50	21



GIS distance plate for dry lined walls

With hole circle 40 and thread M6
From the INSTAFLEX range

L (mm)	Code	SP	Weight (kg)	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	H1 (mm)
310	760 855 133	0	0.292	80	153	250	50	21



Fastening disc

For lightweight construction walls - single fitting connection/double fitting connection - 1/2" thread

Including screws

From the INSTAFLEX range

Code	SP	Weight (kg)
760 856 204	2	0.050

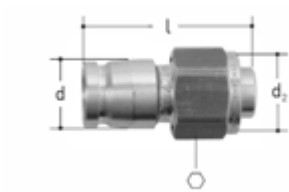
WC connection modules



WC connection module concealed

Incl. plastic union nut
* low lead

	d (mm)	Rp (inch)	Code	SP	Weight (kg)	G (inch)	L (mm)	H (mm)	h (mm)
	16 - 20	½	762 101 023	5	0.147	1	14	17	41
*	16 - 20	½	762 101 262	5	0.147	1	14	17	41



Pipe outlet module for MeplaFix

Incl. protection cap
* low lead

	d (mm)	d2 (inch)	Code	SP	Weight (kg)	L (mm)	⬡
	16 - 20	½	762 101 026	1	0.060	53	24
*	16 - 20	½	762 101 264	1	0.060	53	24

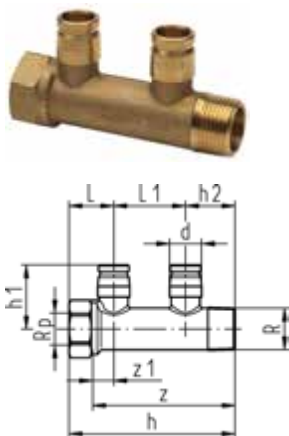


Pipe outlet elbow module for MeplaFix

Incl. protection cap
* low lead

	d (mm)	d2 (inch)	Code	SP	Weight (kg)	L (mm)	h (mm)	⬡
	16 - 20	½	762 101 025	5	0.085	45	34	24
*	16 - 20	½	762 101 263	5	0.085	45	34	24

Manifolds

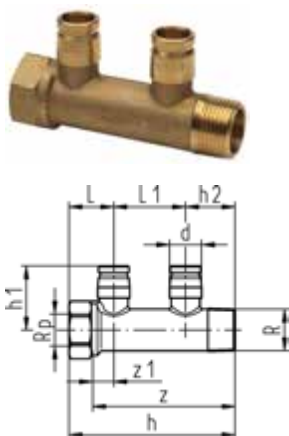


Manifold module

* low lead

d	Rp	R	outlet	Code	SP	Weight
(mm)	(inch)	(inch)				(kg)
16 - 20	¾	¾	2-fold	762 101 230	2	0.315
16 - 20	¾	¾	3-fold	762 101 231	2	0.444
16 - 20	¾	¾	4-fold	762 101 232	2	0.573
*	16 - 20	¾	2-fold	762 101 294	2	0.315
*	16 - 20	¾	3-fold	762 101 295	2	0.444
*	16 - 20	¾	4-fold	762 101 296	2	0.573

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



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

* low lead

** on request

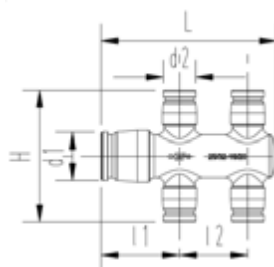
outlet	d	Rp	R	Code	SP	Weight
	(mm)	(inch)	(inch)			(kg)
** 2-fold	16 - 20	¾	¾	762 101 048	2	0.267
*,** 2-fold	16 - 20	1	1	762 101 209	50	0.436

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



Manifold module PPSU

d1	d2	outlet	Code	SP	Weight	L	L1	L2	H
(mm)	(mm)				(kg)	(mm)	(mm)	(mm)	(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



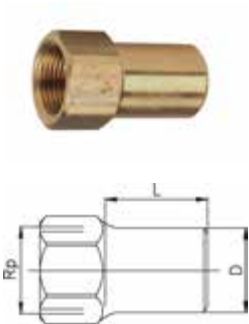
Accessories for manifolds



Cap

From the INSTAFLEX range

Rp (inch)	Code	SP	Weight (kg)
3/4	760 853 794	5	0.084
1	760 853 706	5	0.135



Cap long

From the INSTAFLEX range

Rp (inch)	Code	SP	Weight (kg)	D (mm)	L (mm)
3/4	760 853 596	5	0.162	27	34



Plug

From the INSTAFLEX range

R (inch)	Code	SP	Weight (kg)
3/4	760 853 792	5	0.050
1	760 853 793	5	0.084



Plug long

From the INSTAFLEX range

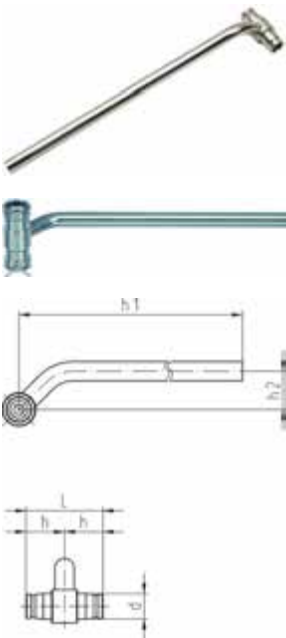
R (inch)	Code	SP	Weight (kg)	D (mm)	L (mm)
3/4	760 869 989	5	0.150	27	52

Heating assortment



Connecting elbow module - single

d (mm)	Code	SP	Weight (kg)	h (mm)	h1 (mm)
16 - 20	762 101 064	5	0.174	330	84



Connecting elbow module - double

d1 (mm)	d2 (mm)	Code	SP	Weight (kg)	h (mm)	h1 (mm)	h2 (mm)	L (mm)
16 - 20	16 - 20	762 101 065	5	0.237	30	330	30	60



Cross Tee module

With isolation box

d (mm)	Code	SP	Weight (kg)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	H2 (mm)
16 - 20	762 101 068	1	0.877	50	50	63	66	46

iFIT

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

Code index

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1025.320	64	163 567 242	61	199 039 003	58	350 898 302	64
1025.400	64	163 567 243	61	199 039 004	58	351 110 365	65
1140.065	63	163 567 244	61	199 039 005	58	351 110 500	65
1140.080	63	163 567 245	61	199 039 006	58	355 564 102	80
1140.100	63	163 567 246	61	199 039 007	58	355 564 103	80
1303.015	63	163 567 247	61	199 039 008	58	355 564 105	80
1303.020	63	163 567 248	61	199 039 027	59	355 632 424	143
1303.025	63	167 547 012	168	199 039 028	59	5741.092	80
1303.032	63	167 547 041	169	199 039 029	59	709 026 106	101, 123
1303.040	63	167 547 042	169	199 039 030	59	709 026 203	133
1303.050	63	167 547 311	169	199 039 031	59	709 026 206	133
1303.065	63	167 547 312	169	199 039 032	59	709 026 211	133
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1611.032	64	167 582 502	62	199 039 202	58	709 026 230	133
1611.040	64	167 582 503	62	199 039 203	58	709 026 233	133
1611.050	64	167 582 504	62	199 039 204	58	709 026 242	133
1611.065	64	167 582 505	62	199 039 205	58	709 026 245	133
163 567 002	60	167 582 506	62	199 039 206	58	709 026 254	133
163 567 003	60	167 582 507	62	199 039 207	58	709 026 257	133
163 567 004	60	167 582 512	62	199 039 208	58	709 026 266	133
163 567 005	60	167 582 513	62	199 039 227	59	709 026 269	133
163 567 006	60	167 582 514	62	199 039 228	59	709 026 278	133
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General Condition of Supply of Georg Fischer Piping Systems Limited, Schaffhausen

1 General

- 1.1 These General Conditions shall apply to all Products supplied by Georg Fischer Piping Systems Limited («Georg Fischer») to the Purchaser.
They shall also apply to all future business even when no express reference is made to them.
- 1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.
- 1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

2 Tenders

- Tenders shall only be binding if they contain a specifically stated period for acceptance.

3 Scope of Delivery

- 3.1 Georg Fischer's product range is subject to change.
- 3.2 The confirmation of order shall govern the scope and execution of the contract.

4 Data and Documents

- 4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.
- 4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

5 Confidentiality, Protection of Personal Data

- 5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.
- 5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc.

6 Local Laws and Regulations, Export Controls

- 6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.
- 6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

7 Price

- 7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms 2010 of the ICC, or latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and import- licences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.
- 7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

8 Terms of Payment

- 8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.
- 8.2 The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser.
In particular, payment shall still be made when unessential items are still outstanding provided that the Products already delivered are not rendered unusable as a result.

9 Retention of Title

- 9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.
- 9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.
- 9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

10 Delivery

- 10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.
- 10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:
- a) if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.
- b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially impractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads.
Should the effect of force majeure exceed a period of six (6) months, either party may cancel the contract forthwith.
Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting the reform, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.
- c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.
- 10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one (1) month which equally is not met.
The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.
- 10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.
- 10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.
- 10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to a penalty amounting to 10% of the contract price, Georg Fischer's right to prove and claim higher damages remaining reserved.

Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage than the penalty forfeited.

11 Packing

- If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

12 Passing of Risk

- 12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EX WORKS, Incoterms 2010 ICC, or latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.
- 12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

13 Carriage and Insurance

- 13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.
- 13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind. Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.
- 13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible.
In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.
- 13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier. Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six (6) days after receipt of the Products.

14 Inspection, Notification of Defects and Damages

- 14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture. Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.
- 14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within seven (7) working days after discovery, in any event within the agreed warranty period.
- 14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.
- 14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.

15 Warranty

- 15.1 At the written request of the Purchaser, Georg Fischer undertakes to repair or replace at its discretion, as quickly as possible and free of charge, all Products supplied which demonstrably suffer from faulty design, materials or workmanship, from faulty operating or installation instructions or which become defective or unusable due to faulty advice.
In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com.
Replaced parts shall become property of Georg Fischer, unless Georg Fischer waives such claim.
- 15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.
- 15.3 The Purchaser shall be entitled to rescind the contract or to demand a reduction of the contract price if
- the repair or replacement of the defective Product is impossible
 - the defective Product is not repaired or replaced within a reasonable period
 - Georg Fischer refuses the repair or replacement or if for reasons attributable to Georg Fischer the repair or replacement is delayed.
- 15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.
- 15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, overstressing or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.
- 15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.
- 15.7 In case of Products for use in domestic installations or in utilities
- Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object up to CHF 1'000'000 per occurrence.
 - warranty or damage claims - contrary to Section 15.6 - are time-barred five (5) years from the date of installation or seven (7) years from the production date, whichever is earlier.

16 Limitation of Liability

- The rights and remedies of the customer shall be exclusively governed by these General Conditions of Supply and shall be in lieu of any remedies at law. All further claims for damages, reduction of the purchase price, termination of or rescission of the contract are excluded.
In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit, third party recovery claims and other direct or indirect or consequential damages.
This limitation of liability equally applies to the extent Georg Fischer is liable for acts or omissions of its employees or third parties engaged for the performance of its obligations. It does not apply in case unlawful intent or gross negligence on the part of Georg Fischer's management and in case of Georg Fischer's statutory liability, in particular under applicable product liability laws.

17 Severability

- Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

18 Place of Performance and Jurisdiction

- 18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.
- 18.2 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.
- 18.3 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland.
Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.

Worldwide at home

Our sales companies and representatives ensure local customer support in more than 100 countries.

www.gfps.com

Argentina / Southern South America

Georg Fischer Central Plastics Sudamérica S.R.L.
Buenos Aires / Argentina
Phone +54 11 4512 02 90
Fax +54 11 4512 02 93
gfccentral.ps.ar@georgfischer.com
www.gfps.com/ar

Australia

George Fischer Pty Ltd
Riverwood NSW 2210
Phone +61 (0) 2 9502 8000
Fax +61 (0) 2 9502 8090
australia.ps@georgfischer.com
www.gfps.com/au

Austria

Georg Fischer Rohrleitungssysteme GmbH
3130 Herzogenburg
Phone +43 (0) 2782 856 43 0
Fax +43 (0) 2782 856 64
austria.ps@georgfischer.com
www.gfps.com/at

Belgium / Luxembourg

Georg Fischer NV/SA
1600 Sint-Pieters-Leeuw / Belgium
Phone +32 (0) 2 556 40 20
Fax +32 (0) 2 524 34 26
be.ps@georgfischer.com
www.gfps.com/be

Brazil

Georg Fischer Sist. de Tub. Ltda.
04571-020 São Paulo/SP
Phone +55 (0) 11 5525 1311
br.ps@georgfischer.com
www.gfps.com/br

Canada

Georg Fischer Piping Systems Ltd
Mississauga, ON L5T 2B2
Phone +1 (905) 670 8005
Fax +1 (905) 670 8513
ca.ps@georgfischer.com
www.gfps.com/ca

China

Georg Fischer Piping Systems Ltd
201319 Shanghai
Phone +86 21 3899 3899
Fax +86 21 3899 3888
china.ps@georgfischer.com
www.gfps.com/cn

Denmark / Iceland

Georg Fischer A/S
2630 Taastrup / Denmark
Phone +45 (0) 7022 1975
Fax +45 (0) 7022 1976
info.dk.ps@georgfischer.com
www.gfps.com/dk

Finland

Georg Fischer AB
01510 Vantaa
Phone +358 (0) 9 586 58 25
Fax +358 (0) 9 586 58 29
info.fi.ps@georgfischer.com
www.gfps.com/fi

France

Georg Fischer SAS
95932 Roissy Charles de Gaulle Cedex
Phone +33 (0) 1 41 84 68 84
Fax +33 (0) 1 41 84 68 85
fr.ps@georgfischer.com
www.gfps.com/fr

Germany

Georg Fischer GmbH
73095 Albershausen
Phone +49 (0) 7161 302 0
Fax +49 (0) 7161 302 25 9
info.de.ps@georgfischer.com
www.gfps.com/de

India

Georg Fischer Piping Systems Pvt. Ltd.
400 076 Powai, Mumbai
Phone +91 22 4007 2000
Fax +91 22 4007 2020
branchoffice@georgfischer.com
www.gfps.com/in

Indonesia

PT Georg Fischer Indonesia
Karawang 41371, Jawa Barat
Phone +62 267 432 044
Fax +62 267 431 857
indonesia.ps@georgfischer.com
www.gfps.com/id

Italy

Georg Fischer S.p.A.
20063 Cernusco S/N (MI)
Phone +39 02 921 86 1
Fax +39 02 921 86 24 7
it.ps@georgfischer.com
www.gfps.com/it

Japan

Georg Fischer Ltd
530-0003 Osaka
Phone +81 (0) 6 6341 2451
jp.ps@georgfischer.com
www.gfps.com/jp

Korea

Georg Fischer Piping Systems
463-824 Seoul
Phone +82 31 8017 1450 3
Fax +82 31 8017 1454
kor.ps@georgfischer.com
www.gfps.com/kr

Malaysia

George Fischer (M) Sdn. Bhd.
41200 Klang, Selangor Darul Ehsan
Phone +60 (0) 3 3122 5585
Fax +60 (0) 3 3122 5575
my.ps@georgfischer.com
www.gfps.com/my

Mexico / Northern Latin America

Georg Fischer S.A. de C.V.
CP 66636 Apodaca, Nuevo Leon / Mexico
Phone +52 (81) 1340 8586
Fax +52 (81) 1522 8906
mx.ps@georgfischer.com
www.gfps.com/mx

Middle East

Georg Fischer Piping Systems (Switzerland) Ltd
Dubai / United Arab Emirates
Phone +971 4 289 49 60
Fax +971 4 289 49 57
gss.ps@georgfischer.com
www.gfps.com/int

Netherlands

Georg Fischer N.V.
8161 PA Epe
Phone +31 (0) 578 678 222
Fax +31 (0) 578 621 768
nl.ps@georgfischer.com
www.gfps.com/nl

New Zealand

Georg Fischer Ltd
5140 Upper Hutt
Phone +64 (0) 4 527 9813
Fax +64 (0) 4 527 9834
nz.ps@georgfischer.com
www.gfps.com/nz

Norway

Georg Fischer AS
1351 Rud
Phone +47 67 18 29 00
Fax +47 67 13 92 92
no.ps@georgfischer.com
www.gfps.com/no

Philippines

Georg Fischer Representative Office
1604 Pasig City
Phone +632 571 2365
Fax +632 571 2368
sgp.ps@georgfischer.com
www.gfps.com/sg

Poland

Georg Fischer Sp. z o.o.
05 090 Sekocin Nowy
Phone +48 (0) 22 3131 050
Fax +48 (0) 22 3131 060
poland.ps@georgfischer.com
www.gfps.com/pl

Romania

Georg Fischer Rohrleitungssysteme (Elvetia)
S.A. SUCURSALA BUCURESTI
020257 Bucuresti
Phone +40 311 040 492
Fax +40 212 317 479
ro.ps@georgfischer.com
www.gfps.com/int

Russia

Georg Fischer Piping Systems (Switzerland) Ltd
Moscow Representative Office
125040 Moscow
Phone +7 495 748 11 44
ru.ps@georgfischer.com
www.gfps.com/ru

Singapore

Georg Fischer Pte Ltd
528 872 Singapore
Phone +65 6747 0611
Fax +65 6747 0577
sgp.ps@georgfischer.com
www.gfps.com/sg

Spain / Portugal

Georg Fischer S.A.
28046 Madrid / Spain
Phone +34 (0) 91 781 98 90
Fax +34 (0) 91 426 08 23
es.ps@georgfischer.com
www.gfps.com/es

Sweden

Georg Fischer AB
11743 Stockholm
Phone +46 (0) 8 506 77 50 0
Fax +46 (0) 8 749 23 70
info.se.ps@georgfischer.com
www.gfps.com/se

Switzerland

Georg Fischer Rohrleitungssysteme (Schweiz) AG
8201 Schaffhausen
Phone +41 (0)52 631 3026
Fax +41 (0)52 631 2800
ch.ps@georgfischer.com
www.gfps.com/ch

Taiwan

Georg Fischer Co. Ltd.
24158 New Taipei City
Phone +886 2 8512 2822
Fax +886 2 8512 2823
tw@georgfischer.com
www.gfps.com/tw

Turkey

Georg Fischer Hakan Plastik
Boru ve Profil San. Tic. A.S.
59500 Cerkezkoy / Tekirdag
Phone +90 282 726 64 43
Fax +90 282 726 94 67
hpsales@hakan.com.tr
www.hakan.com.tr

United Kingdom / Ireland

Georg Fischer Sales Ltd
CV2 2ST Coventry / United Kingdom
Phone +44 (0) 2476 535 535
Fax +44 (0) 2476 530 450
uk.ps@georgfischer.com
www.gfps.com/uk

USA / Caribbean

Georg Fischer LLC
92618 Irvine, CA / USA
Phone +1 714 731 88 00
Fax +1 714 731 62 01
Toll Free 800/854 40 90
us.ps@georgfischer.com
www.gfps.com/us

Vietnam

George Fischer Pte Ltd
Representative Office
Ho Chi Minh City
Phone +84 28 3948 4000
Fax +84 28 3948 4010
sgp.ps@georgfischer.com
www.gfps.com/vn

International

Georg Fischer Piping Systems (Switzerland) Ltd
8201 Schaffhausen / Switzerland
Phone +41 (0) 52 631 3003
Fax +41 (0) 52 631 2893
info.export@georgfischer.com
www.gfps.com/int

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