

**Product Range
International
2011**

**Actuated Valves
Control Products**



PVC-U metric

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PVC-U metric

Ball valves electric

Ball valve type 107 PVC-U 100-230V

With manual emergency override

With solvent cement sockets metric



DN10/15 - 50

Model:

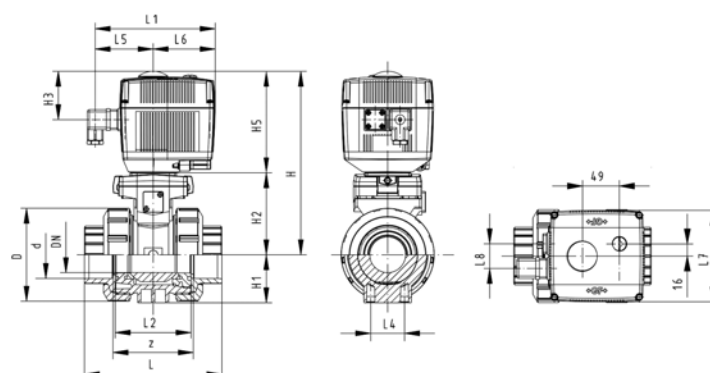
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 107 002	199 107 012
20	15	10	185	199 107 003	199 107 013
25	20	10	350	199 107 004	199 107 014
32	25	10	700	199 107 005	199 107 015
40	32	10	1000	199 107 006	199 107 016
50	40	10	1600	199 107 007	199 107 017
63	50	10	3100	199 107 008	199 107 018

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	200	27	64	64	137	92	161	56	25	77	83	122	33	64
20	50	200	27	64	64	137	95	161	56	25	77	83	122	33	64
25	58	209	30	73	64	137	110	161	65	25	77	83	122	33	72
32	68	209	36	73	64	137	123	161	71	25	77	83	122	33	79
40	84	220	44	84	64	137	146	161	85	45	77	83	122	33	94
50	97	220	51	84	64	137	157	161	89	45	77	83	122	33	95
63	124	243	64	106	64	137	183	161	101	45	77	83	122	33	107



PVC-U metric

Ball valve type 107 PVC-U 100-230V With manual emergency override With solvent cement spigots metric



DN10/15 - 50

Model:

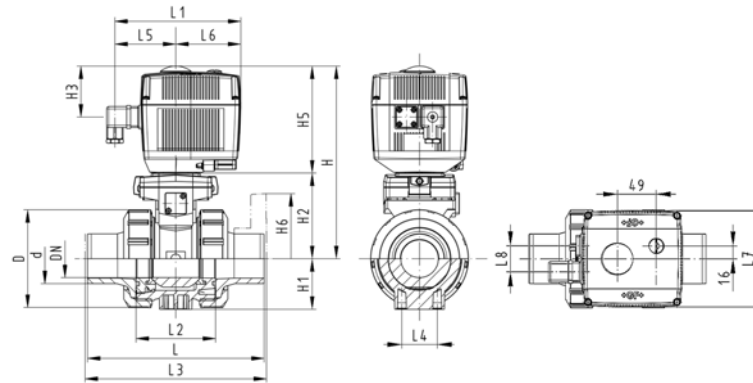
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 107 022	199 107 032
20	15	10	185	199 107 023	199 107 033
25	20	10	350	199 107 024	199 107 034
32	25	10	700	199 107 025	199 107 035
40	32	10	1000	199 107 026	199 107 036
50	40	10	1600	199 107 027	199 107 037
63	50	10	3100	199 107 028	199 107 038

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	200	27	64	64	137	114	161	56	130	25	77	83	122	33
20	50	200	27	64	64	137	124	161	56	130	25	77	83	122	33
25	58	209	30	73	64	137	144	161	65	150	25	77	83	122	33
32	68	209	36	73	64	137	154	161	71	160	25	77	83	122	33
40	84	220	44	84	64	137	174	161	85	180	45	77	83	122	33
50	97	220	51	84	64	137	194	161	89	200	45	77	83	122	33
63	124	243	64	106	64	137	224	161	101	230	45	77	83	122	33





DN10/15 - 50

PVC-U metric

Ball valve type 107 PVC-U 100-230V With manual emergency override With threaded sockets Rp

Model:

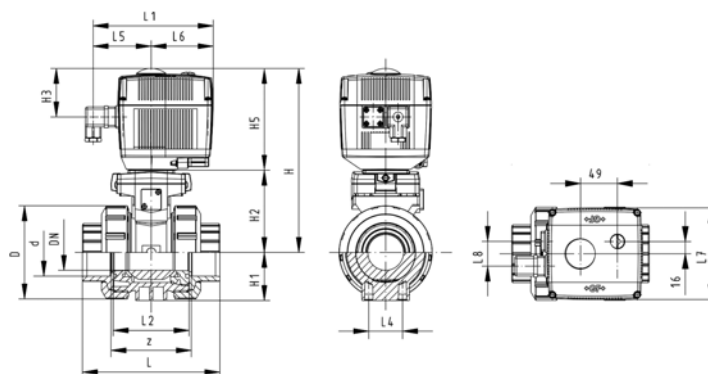
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
3/8	10	10	70	199 107 622	199 107 632	
1/2	15	10	185	199 107 623	199 107 633	
3/4	20	10	350	199 107 624	199 107 634	
1	25	10	700	199 107 625	199 107 635	
1 1/4	32	10	1000	199 107 626	199 107 636	
1 1/2	40	10	1600	199 107 627	199 107 637	
2	50	10	3100	199 107 628	199 107 638	

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
3/8	50	200	27	64	64	137	92	161	56	25	77	83	122	33	64
1/2	50	200	27	64	64	137	95	161	56	25	77	83	122	33	64
3/4	58	209	30	73	64	137	110	161	65	25	77	83	122	33	72
1	68	209	36	73	64	137	123	161	71	25	77	83	122	33	79
1 1/4	84	220	44	84	64	137	146	161	85	45	77	83	122	33	94
1 1/2	97	220	51	84	64	137	157	161	89	45	77	83	122	33	95
2	124	243	64	106	64	137	183	161	101	45	77	83	122	33	107



PVC-U metric

Ball valve type 107 PVC-U 100-230V With manual emergency override With fixed flanges serrated metric



DN10/15 - 50

Model:

- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 5 s/90°<
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

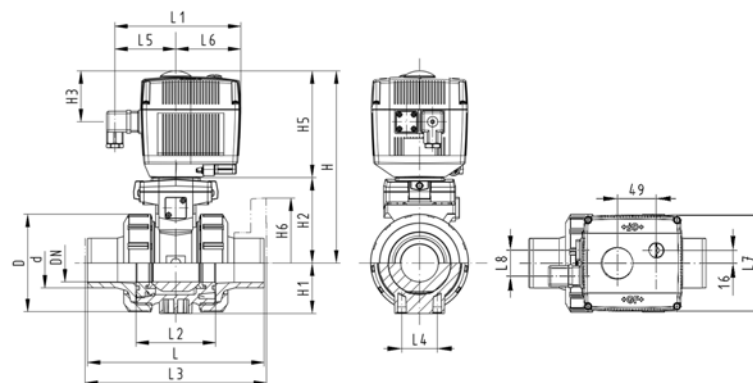
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
20	15	½	10	185	199 107 603	199 107 613	
25	20	¾	10	350	199 107 604	199 107 614	
32	25	1	10	700	199 107 605	199 107 615	
40	32	1 ¼	10	1000	199 107 606	199 107 616	
50	40	1 ½	10	1600	199 107 607	199 107 617	
63	50	2	10	3100	199 107 608	199 107 618	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	
20	50	201	27	64	65	138	48	124	160	56	130	25	77	83	122	
25	58	210	30	73	65	138	53	144	160	65	150	25	77	83	122	
32	68	210	36	73	65	138	58	154	160	71	160	25	77	83	122	
40	84	221	44	84	65	138	70	174	160	85	180	45	77	83	122	
50	97	221	51	84	65	138	75	194	160	89	200	45	77	83	122	
63	124	244	64	106	65	138	83	224	160	101	230	45	77	83	122	

d [mm]	L8 [mm]	
20	33	
25	33	
32	33	
40	33	
50	33	
63	33	





DN10/15 - 50

PVC-U metric

Ball valve type 107 PVC-U 24V With manual emergency override With solvent cement sockets metric

Model:

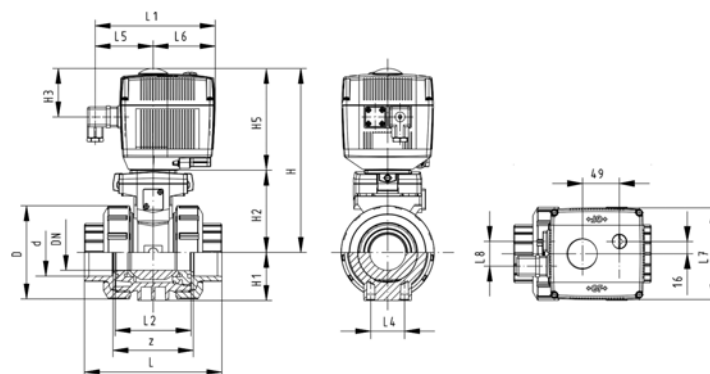
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 107 042	199 107 052
20	15	10	185	199 107 043	199 107 053
25	20	10	350	199 107 044	199 107 054
32	25	10	700	199 107 045	199 107 055
40	32	10	1000	199 107 046	199 107 056
50	40	10	1600	199 107 047	199 107 057
63	50	10	3100	199 107 048	199 107 058

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	200	27	64	64	137	92	161	56	25	77	83	122	33	64
20	50	200	27	64	64	137	95	161	56	25	77	83	122	33	64
25	58	209	30	73	64	137	110	161	65	25	77	83	122	33	72
32	68	209	36	73	64	137	123	161	71	25	77	83	122	33	79
40	84	220	44	84	64	137	146	161	85	45	77	83	122	33	94
50	97	220	51	84	64	137	157	161	89	45	77	83	122	33	95
63	124	243	64	106	64	137	183	161	101	45	77	83	122	33	107



PVC-U metric

Ball valve type 107 PVC-U 24V With manual emergency override With solvent cement spigots metric



DN10/15 - 50

Model:

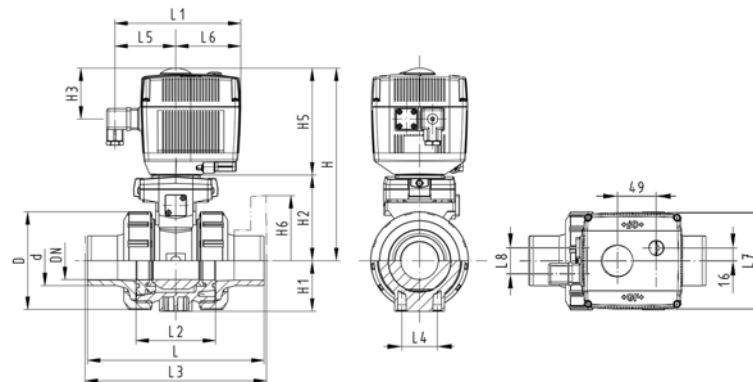
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 107 062	199 107 072
20	15	10	185	199 107 063	199 107 073
25	20	10	350	199 107 064	199 107 074
32	25	10	700	199 107 065	199 107 075
40	32	10	1000	199 107 066	199 107 076
50	40	10	1600	199 107 067	199 107 077
63	50	10	3100	199 107 068	199 107 078

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	200	27	64	64	137	114	161	56	130	25	77	83	122	33
20	50	200	27	64	64	137	124	161	56	130	25	77	83	122	33
25	58	209	30	73	64	137	144	161	65	150	25	77	83	122	33
32	68	209	36	73	64	137	154	161	71	160	25	77	83	122	33
40	84	220	44	84	64	137	174	161	85	180	45	77	83	122	33
50	97	220	51	84	64	137	194	161	89	200	45	77	83	122	33
63	124	243	64	106	64	137	224	161	101	230	45	77	83	122	33





DN10/15 - 50

PVC-U metric

Ball valve type 107 PVC-U 24V With manual emergency override With threaded sockets Rp

Model:

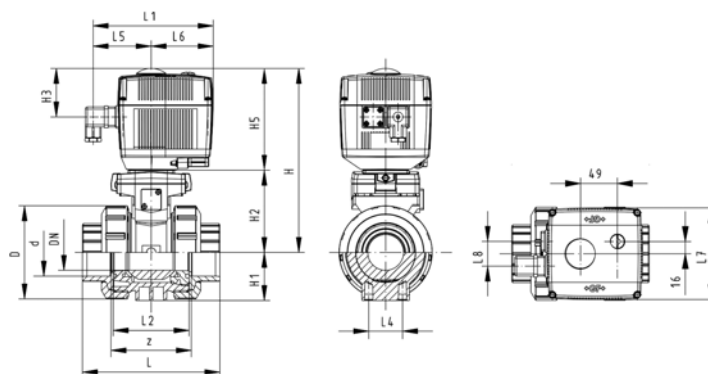
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
3/8	10	10	70	199 107 662	199 107 672	
1/2	15	10	185	199 107 663	199 107 673	
3/4	20	10	350	199 107 664	199 107 674	
1	25	10	700	199 107 665	199 107 675	
1 1/4	32	10	1000	199 107 666	199 107 676	
1 1/2	40	10	1600	199 107 667	199 107 677	
2	50	10	3100	199 107 668	199 107 678	

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
3/8	50	200	27	64	64	137	92	161	56	25	77	83	122	33	64
1/2	50	200	27	64	64	137	95	161	56	25	77	83	122	33	64
3/4	58	209	30	73	64	137	110	161	65	25	77	83	122	33	72
1	68	209	36	73	64	137	123	161	71	25	77	83	122	33	79
1 1/4	84	220	44	84	64	137	146	161	85	45	77	83	122	33	94
1 1/2	97	220	51	84	64	137	157	161	89	45	77	83	122	33	95
2	124	243	64	106	64	137	183	161	101	45	77	83	122	33	107



PVC-U metric

Ball valve type 107 PVC-U 24V With manual emergency override With fixed flanges serrated metric



DN10/15 - 50

Model:

- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

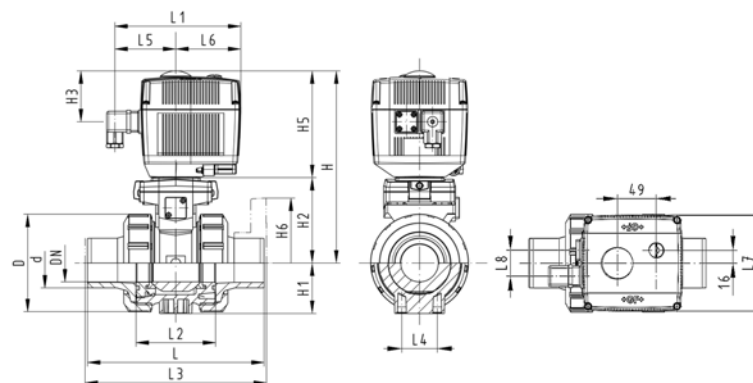
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
20	15	½	10	185	199 107 643	199 107 653	
25	20	¾	10	350	199 107 644	199 107 654	
32	25	1	10	700	199 107 645	199 107 655	
40	32	1 ¼	10	1000	199 107 646	199 107 656	
50	40	1 ½	10	1600	199 107 647	199 107 657	
63	50	2	10	3100	199 107 648	199 107 658	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	
20	50	201	27	64	65	138	48	124	160	56	130	25	77	83	122	
25	58	210	30	73	65	138	53	144	160	65	150	25	77	83	122	
32	68	210	36	73	65	138	58	154	160	71	160	25	77	83	122	
40	84	221	44	84	65	138	70	174	160	85	180	45	77	83	122	
50	97	221	51	84	65	138	75	194	160	89	200	45	77	83	122	
63	124	244	64	106	65	138	83	224	160	101	230	45	77	83	122	

d [mm]	L8 [mm]	
20	33	
25	33	
32	33	
40	33	
50	33	
63	33	



PVC-U metric

Ball valve type 130 PVC-U 100-230V With manual emergency override With solvent cement sockets metric

Model:

- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

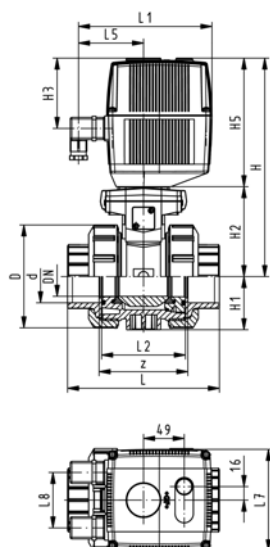


DN10/15 - 50

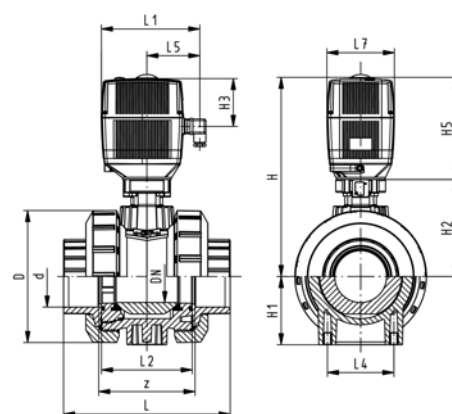


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 130 002	199 130 012
20	15	10	185	199 130 003	199 130 013
25	20	10	350	199 130 004	199 130 014
32	25	10	700	199 130 005	199 130 015
40	32	10	1000	199 130 006	199 130 016
50	40	10	1600	199 130 007	199 130 017
63	50	10	3100	199 130 008	199 130 018
75	65	10	5000	199 130 009	199 130 019
90	80	10	7000	199 130 010	199 130 020
110	100	10	11000	199 130 011	199 130 021

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
16	50	231	27	64	94	167	92	180	56	25	97	122	64
20	50	231	27	64	94	167	95	180	56	25	97	122	64
25	58	240	30	73	94	167	110	180	65	25	97	122	72
32	68	240	36	73	94	167	123	180	71	25	97	122	79
40	84	251	44	84	94	167	146	180	85	45	97	122	94
50	97	251	51	84	94	167	157	180	89	45	97	122	95
63	124	273	64	106	94	167	183	180	101	45	97	122	107
75	166	346	85	156	94	190	233	180	136	70	98	122	144
90	200	358	105	168	94	190	254	180	141	70	98	122	151
110	238	365	123	175	94	190	301	180	164	120	98	122	174



DN10/15-50



DN65-100

PVC-U metric

Ball valve type 130 PVC-U 100-230V With manual emergency override With threaded sockets Rp

Model:

- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

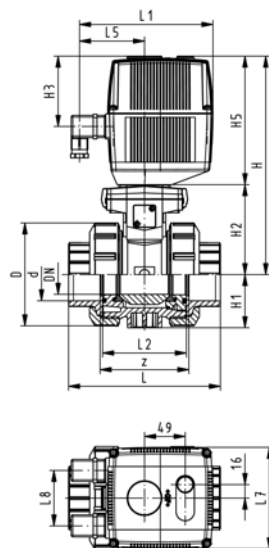


DN10/15 - 50

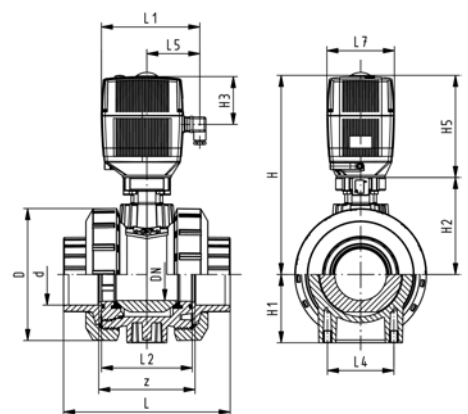


Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 130 122	199 130 132
1/2	15	10	185	199 130 123	199 130 133
3/4	20	10	350	199 130 124	199 130 134
1	25	10	700	199 130 125	199 130 135
1 1/4	32	10	1000	199 130 126	199 130 136
1 1/2	40	10	1600	199 130 127	199 130 137
2	50	10	3100	199 130 128	199 130 138
2 1/2	65	10	5000	199 130 129	199 130 139
3	80	10	7000	199 130 130	199 130 140
4	100	10	11000	199 130 131	199 130 141

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
3/8	50	231	27	64	94	167	92	180	56	25	97	122	64
1/2	50	231	27	64	94	167	95	180	56	25	97	122	64
3/4	58	240	30	73	94	167	110	180	65	25	97	122	72
1	68	240	36	73	94	167	123	180	71	25	97	122	79
1 1/4	84	251	44	84	94	167	146	180	85	45	97	122	94
1 1/2	97	251	51	84	94	167	157	180	89	45	97	122	95
2	124	273	64	106	94	167	183	180	101	45	97	122	107
2 1/2	166	346	85	156	94	190	233	180	136	70	98	122	144
3	200	358	105	168	94	190	254	180	141	70	98	122	151
4	238	365	123	175	94	190	301	180	164	120	98	122	174



DN10/15-50



DN65-100

PVC-U metric

Ball valve type 130 PVC-U 100-230V With manual emergency override With solvent cement spigots metric

Model:

- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

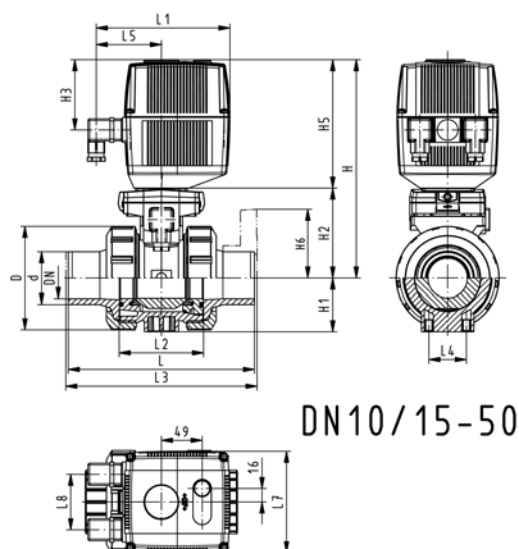


DN10/15 - 50

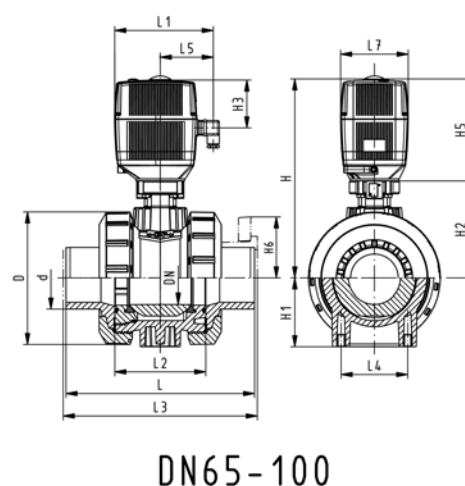


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 130 022	199 130 032
20	15	10	185	199 130 023	199 130 033
25	20	10	350	199 130 024	199 130 034
32	25	10	700	199 130 025	199 130 035
40	32	10	1000	199 130 026	199 130 036
50	40	10	1600	199 130 027	199 130 037
63	50	10	3100	199 130 028	199 130 038
75	65	10	5000	199 130 029	199 130 039
90	80	10	7000	199 130 030	199 130 040
110	100	10	11000	199 130 031	199 130 041

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]
16	50	231	27	64	94	167	114	180	56	130	25	97	122
20	50	231	27	64	94	167	124	180	56	130	25	97	122
25	58	240	30	73	94	167	144	180	65	150	25	97	122
32	68	240	36	73	94	167	154	180	71	160	25	97	122
40	84	251	44	84	94	167	174	180	85	180	45	97	122
50	97	251	51	84	94	167	194	180	89	200	45	97	122
63	124	273	64	106	94	167	224	180	101	230	45	97	122
75	166	346	85	156	94	190	284	180	136	290	70	98	122
90	200	358	105	168	94	190	300	180	141	310	70	98	122
110	238	365	123	175	94	190	340	180	164	350	120	98	122



DN10/15-50



DN65-100

PVC-U metric

Ball valve type 130 PVC-U 100-230V With manual emergency override With fixed flanges serrated metric



Model:

- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Built on with electric actuator EA21
- Control time 5 s/90°<)
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

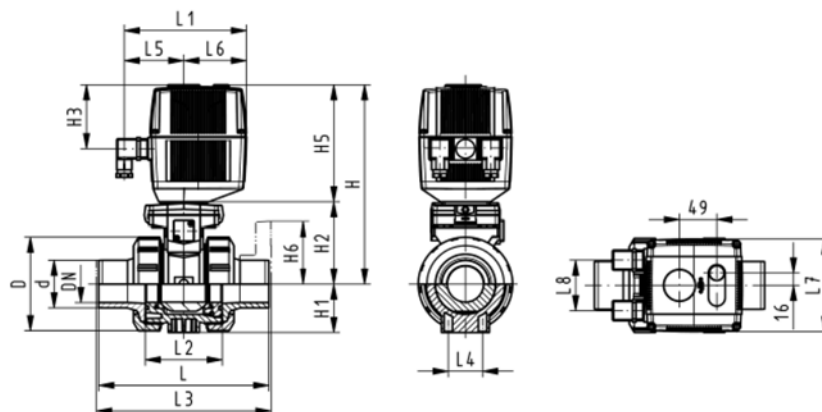
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
20	15	½	10	185	199 130 103	199 130 113	
25	20	¾	10	350	199 130 104	199 130 114	
32	25	1	10	700	199 130 105	199 130 115	
40	32	1 ¼	10	1000	199 130 106	199 130 116	
50	40	1 ½	10	1600	199 130 107	199 130 117	
63	50	2	10	3100	199 130 108	199 130 118	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	
20	50	231	27	64	94	167	48	124	180	56	130	25	98	83	122	
25	58	240	30	73	94	167	53	144	180	65	150	25	97	83	122	
32	68	240	36	73	94	167	58	154	180	71	160	25	97	83	122	
40	84	251	44	84	94	167	70	174	180	85	180	45	97	83	122	
50	97	251	51	84	94	167	75	194	180	89	200	45	98	83	122	
63	124	273	64	106	94	167	83	224	180	101	230	45	97	83	122	

d [mm]	L8 [mm]	
20	66	
25	66	
32	66	
40	66	
50	66	
63	66	



PVC-U metric

Ball valve type 130 PVC-U 100-230V With manual emergency override With backing flanges PP-st metric



Model:

- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

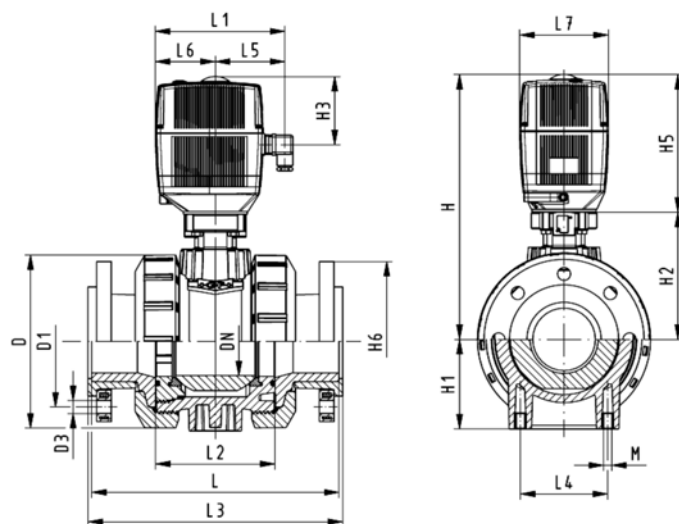
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
75	65	10	5000	199 134 349	199 134 359
90	80	10	7000	199 134 350	199 134 360
110	100	10	11000	199 134 351	199 134 361

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
75	166	346	85	156	94	190	93	284	180	136	290	70	98	83	122
90	200	358	105	168	94	190	100	300	180	141	310	70	98	83	122
110	238	365	123	175	94	190	110	340	180	164	350	120	98	83	122

d [mm]	L8 [mm]
75	66
90	66
110	66



PVC-U metric

Ball valve type 130 PVC-U 24V

With manual emergency override

With solvent cement sockets metric

Model:

- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

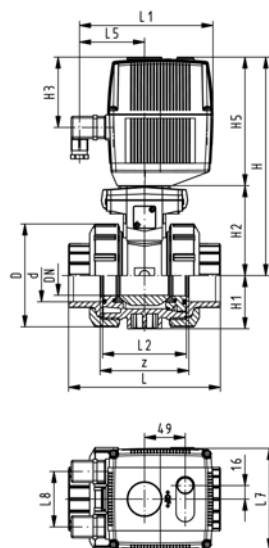


DN10/15 - 50

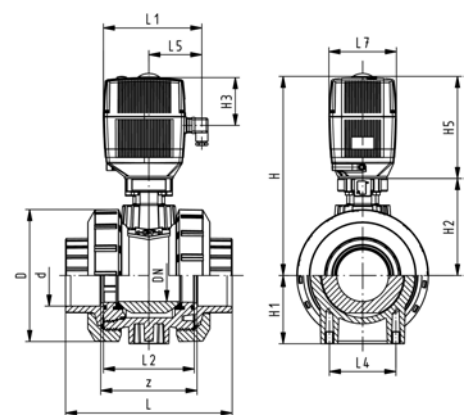


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 130 042	199 130 052
20	15	10	185	199 130 043	199 130 053
25	20	10	350	199 130 044	199 130 054
32	25	10	700	199 130 045	199 130 055
40	32	10	1000	199 130 046	199 130 056
50	40	10	1600	199 130 047	199 130 057
63	50	10	3100	199 130 048	199 130 058
75	65	10	5000	199 130 049	199 130 059
90	80	10	7000	199 130 050	199 130 060
110	100	10	11000	199 130 051	199 130 061

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
16	50	231	27	64	94	167	92	180	56	25	97	122	64
20	50	231	27	64	94	167	95	180	56	25	97	122	64
25	58	240	30	73	94	167	110	180	65	25	97	122	72
32	68	240	36	73	94	167	123	180	71	25	97	122	79
40	84	251	44	84	94	167	146	180	85	45	97	122	94
50	97	251	51	84	94	167	157	180	89	45	97	122	95
63	124	273	64	106	94	167	183	180	101	45	97	122	107
75	166	347	85	156	94	190	233	180	136	70	98	122	144
90	200	358	105	168	94	190	254	180	141	70	98	122	151
110	238	365	123	175	94	190	301	180	164	120	98	122	174



DN10/15-50



DN65-100

PVC-U metric

Ball valve type 130 PVC-U 24V With manual emergency override With threaded sockets Rp

Model:

- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

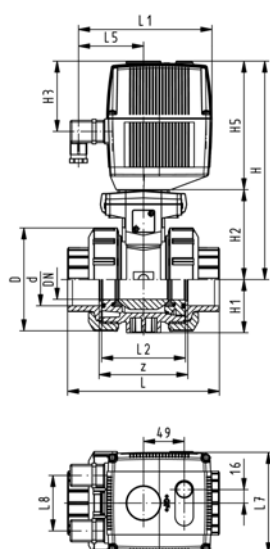


DN10/15 - 50

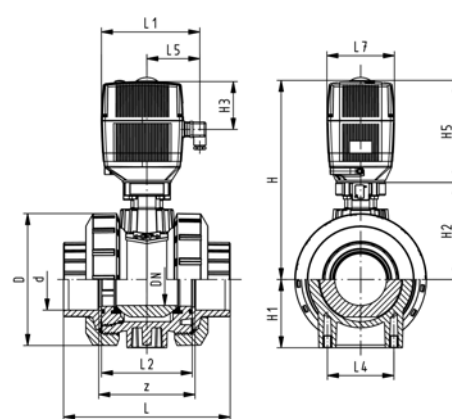


Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 130 162	199 130 172
1/2	15	10	185	199 130 163	199 130 173
3/4	20	10	350	199 130 164	199 130 174
1	25	10	700	199 130 165	199 130 175
1 1/4	32	10	1000	199 130 166	199 130 176
1 1/2	40	10	1600	199 130 167	199 130 177
2	50	10	3100	199 130 168	199 130 178
2 1/2	65	10	5000	199 130 169	199 130 179
3	80	10	7000	199 130 170	199 130 180
4	100	10	11000	199 130 171	199 130 181

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
3/8	50	231	27	64	94	167	92	180	56	25	97	122	64
1/2	50	231	27	64	94	167	95	180	56	25	97	122	64
3/4	58	240	30	73	94	167	110	180	65	25	97	122	72
1	68	240	36	73	94	167	123	180	71	25	97	122	79
1 1/4	84	251	44	84	94	167	146	180	85	45	97	122	94
1 1/2	97	251	51	84	94	167	157	180	89	45	97	122	95
2	124	273	64	106	94	167	183	180	101	45	97	122	107
2 1/2	166	346	85	156	94	190	233	180	136	70	98	122	144
3	200	358	105	168	94	190	254	180	141	70	98	122	151
4	238	365	123	175	94	190	301	180	164	120	98	122	174



DN10/15-50



DN65-100

PVC-U metric

Ball valve type 130 PVC-U 24V With manual emergency override With solvent cement spigots metric



DN10/15 - 50



Model:

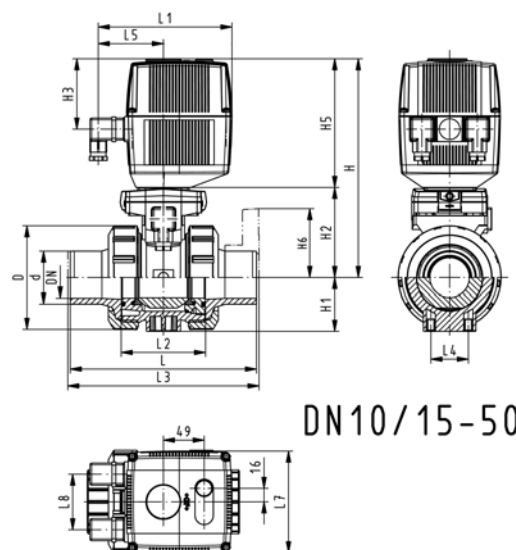
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

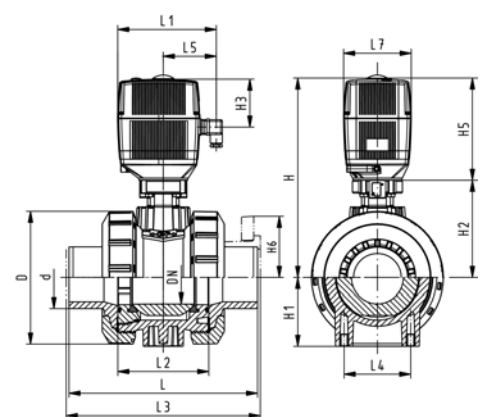
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 130 062	199 130 072
20	15	10	185	199 130 063	199 130 073
25	20	10	350	199 130 064	199 130 074
32	25	10	700	199 130 065	199 130 075
40	32	10	1000	199 130 066	199 130 076
50	40	10	1600	199 130 067	199 130 077
63	50	10	3100	199 130 068	199 130 078
75	65	10	5000	199 130 069	199 130 079
90	80	10	7000	199 130 070	199 130 080
110	100	10	11000	199 130 071	199 130 081

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]
16	50	231	27	64	94	167	114	180	56	130	25	97	122
20	50	231	27	64	94	167	124	180	56	130	25	97	122
25	58	240	30	73	94	167	144	180	65	150	25	97	122
32	68	240	36	73	94	167	154	180	71	160	25	97	122
40	84	251	44	84	94	167	174	180	85	180	45	97	122
50	97	251	51	84	94	167	194	180	89	200	45	97	122
63	124	273	64	106	94	167	224	180	101	230	45	97	122
75	166	346	85	156	94	190	284	180	136	290	70	98	122
90	200	358	105	168	94	190	300	180	141	310	70	98	122
110	238	365	123	175	94	190	340	180	164	350	120	98	122



DN10/15-50



DN65-100

PVC-U metric

Ball valve type 130 PVC-U 24V With manual emergency override With fixed flanges serrated metric



DN10/15 - 50

Model:

- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Built on with electric actuator EA21
- Control time 5 s/90°<
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

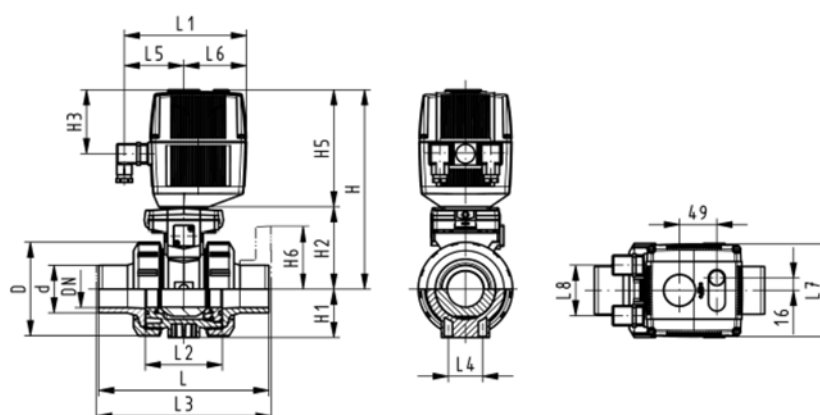
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	
20	15	½	10	185	199 130 143	199 130 153	
25	20	¾	10	350	199 130 144	199 130 154	
32	25	1	10	700	199 130 145	199 130 155	
40	32	1 ¼	10	1000	199 130 146	199 130 156	
50	40	1 ½	10	1600	199 130 147	199 130 157	
63	50	2	10	3100	199 130 148	199 130 158	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	27	64	94	167	48	124	180	56	130	25	97	83	122
25	58	240	30	73	94	167	53	144	180	65	150	25	97	83	122
32	68	240	36	73	94	167	58	154	180	71	160	25	97	83	122
40	84	251	44	84	94	167	70	174	180	85	180	45	97	83	122
50	97	251	51	84	94	167	75	194	180	89	200	45	97	83	122
63	124	273	64	106	94	167	83	224	180	101	230	45	97	83	122

d [mm]	L8 [mm]	
20	66	
25	66	
32	66	
40	66	
50	66	
63	66	



PVC-U metric

Ball valve type 130 PVC-U 24V With manual emergency override With backing flanges PP-st metric



Model:

- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

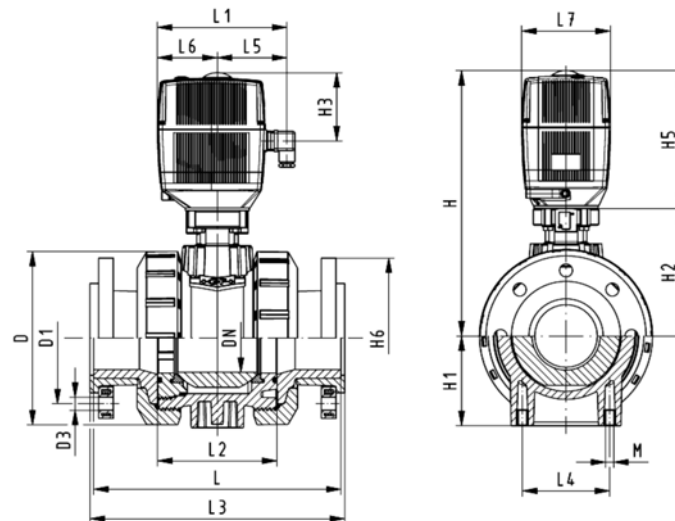
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
75	65	10	5000	199 134 369	199 134 379
90	80	10	7000	199 134 370	199 134 380
110	100	10	11000	199 134 371	199 134 381

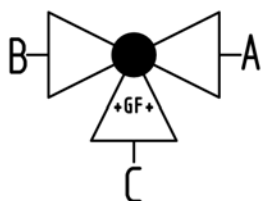
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
75	166	346	85	156	94	190	93	284	180	136	290	70	98	83	122
90	200	358	105	168	94	190	100	300	180	141	310	70	98	83	122
110	238	365	123	175	94	190	110	340	180	164	350	120	98	83	122

d [mm]	L8 [mm]
75	66
90	66
110	66



PVC-U metric

3-Way ball valve type 185 PVC-U Horizontal/L-port 100-230V With manual emergency override With solvent cement sockets metric



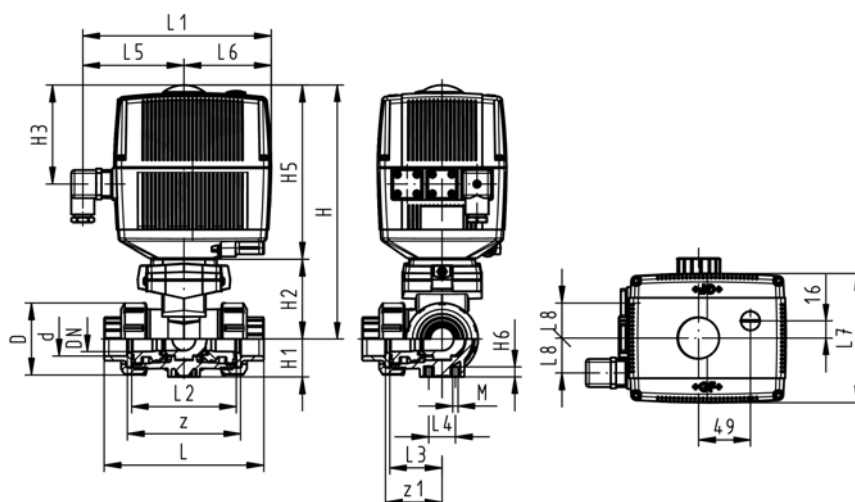
Model:

- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 185 022	199 185 032
20	15	10	75	199 185 023	199 185 033
25	20	10	150	199 185 024	199 185 034
32	25	10	280	199 185 025	199 185 035
40	32	10	480	199 185 026	199 185 036
50	40	10	620	199 185 027	199 185 037
63	50	10	1230	199 185 028	199 185 038

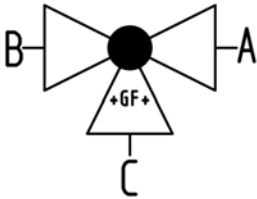
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	81	40
20	33	6	81	40
25	33	6	94	47
32	33	6	107	54
40	33	8	130	65
50	33	8	143	72
63	33	8	185	92



PVC-U metric

3-Way ball valve type 185 PVC-U Horizontal/L-port 100-230V With manual emergency override With solvent cement spigots metric



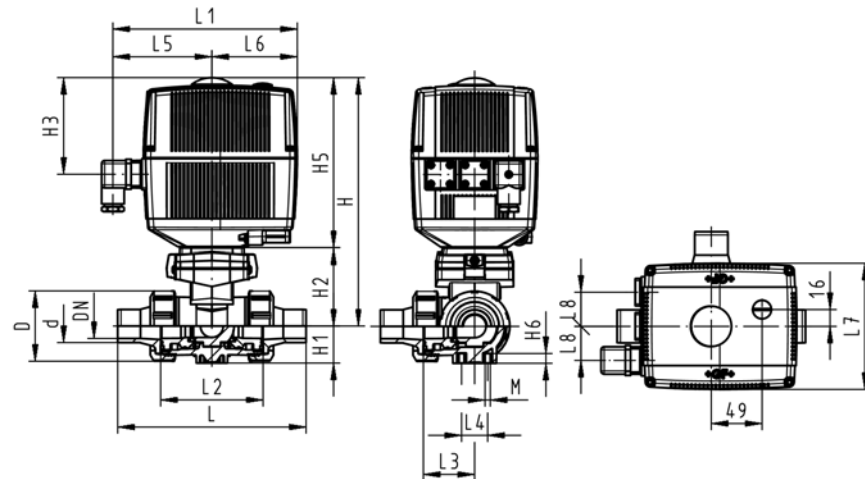
Model:

- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 185 002	199 185 012
20	15	10	75	199 185 003	199 185 013
25	20	10	150	199 185 004	199 185 014
32	25	10	280	199 185 005	199 185 015
40	32	10	480	199 185 006	199 185 016
50	40	10	620	199 185 007	199 185 017
63	50	10	1230	199 185 008	199 185 018

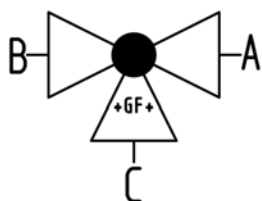
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	131	180	194	36	25	97	83	122
20	50	231	28	64	94	167	8	141	180	194	36	25	97	83	122
25	58	240	32	73	94	167	8	165	180	194	43	25	97	83	122
32	68	240	36	73	94	167	8	182	180	194	50	25	97	83	122
40	84	251	45	84	94	167	9	209	180	194	60	45	97	83	122
50	97	251	51	84	94	167	9	242	180	194	69	45	97	83	122
63	124	273	65	106	94	167	9	302	180	194	89	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PVC-U metric

3-Way ball valve type 185 PVC-U Horizontal/L-port 24V With manual emergency override With solvent cement sockets metric



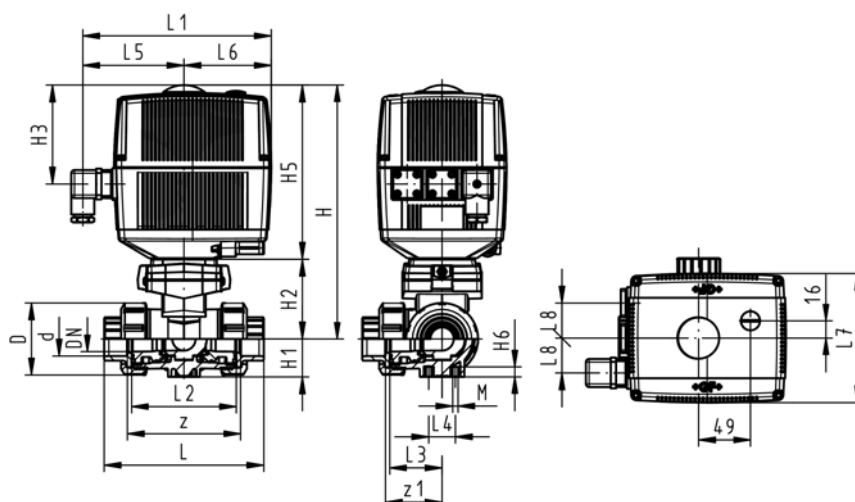
Model:

- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 185 202	199 185 212
20	15	10	75	199 185 203	199 185 213
25	20	10	150	199 185 204	199 185 214
32	25	10	280	199 185 205	199 185 215
40	32	10	480	199 185 206	199 185 216
50	40	10	620	199 185 207	199 185 217
63	50	10	1230	199 185 208	199 185 218

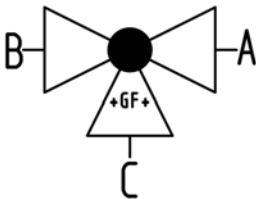
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	81	40
20	33	6	81	40
25	33	6	94	47
32	33	6	107	54
40	33	8	130	65
50	33	8	143	72
63	33	8	185	92



PVC-U metric

3-Way ball valve type 185 PVC-U Horizontal/L-port 24V With manual emergency override With solvent cement spigots metric



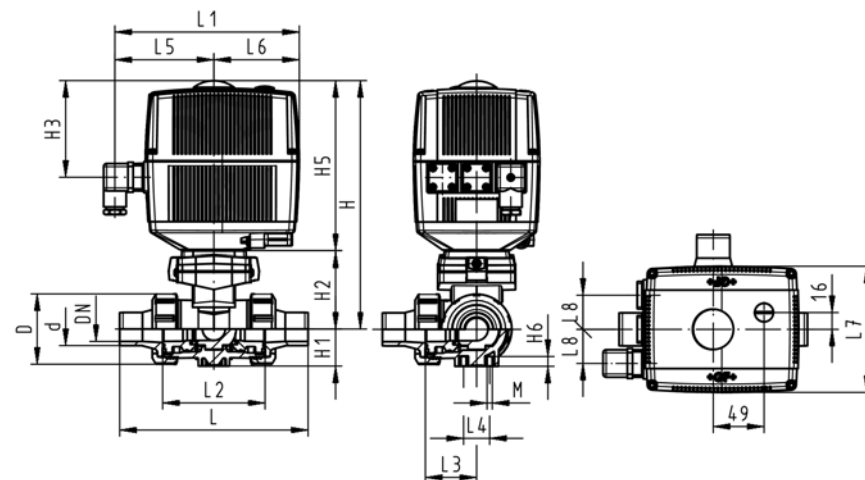
Model:

- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 185 182	199 185 192
20	15	10	75	199 185 183	199 185 193
25	20	10	150	199 185 184	199 185 194
32	25	10	280	199 185 185	199 185 195
40	32	10	480	199 185 186	199 185 196
50	40	10	620	199 185 187	199 185 197
63	50	10	1230	199 185 188	199 185 198

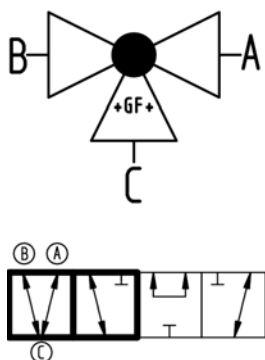
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	131	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	141	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	165	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	182	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	209	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	242	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	302	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PVC-U metric

3-Way ball valve type 185 PVC-U Horizontal/T-port 100-230V With manual emergency override With solvent cement sockets metric



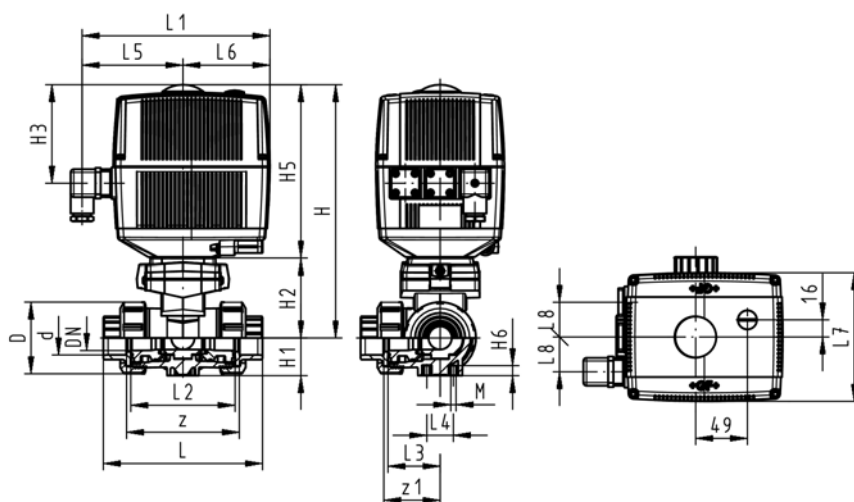
Model:

- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 185 062	199 185 072
20	15	10	200	199 185 063	199 185 073
25	20	10	470	199 185 064	199 185 074
32	25	10	793	199 185 065	199 185 075
40	32	10	1290	199 185 066	199 185 076
50	40	10	1910	199 185 067	199 185 077
63	50	10	3100	199 185 068	199 185 078

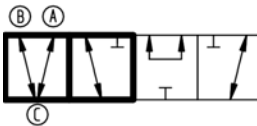
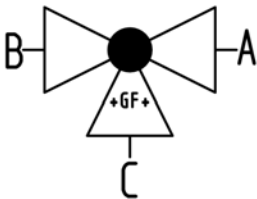
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	81	40
20	33	6	81	40
25	33	6	94	47
32	33	6	107	54
40	33	8	130	65
50	33	8	143	72
63	33	8	185	92



PVC-U metric

3-Way ball valve type 185 PVC-U Horizontal/T-port 100-230V With manual emergency override With solvent cement spigots metric



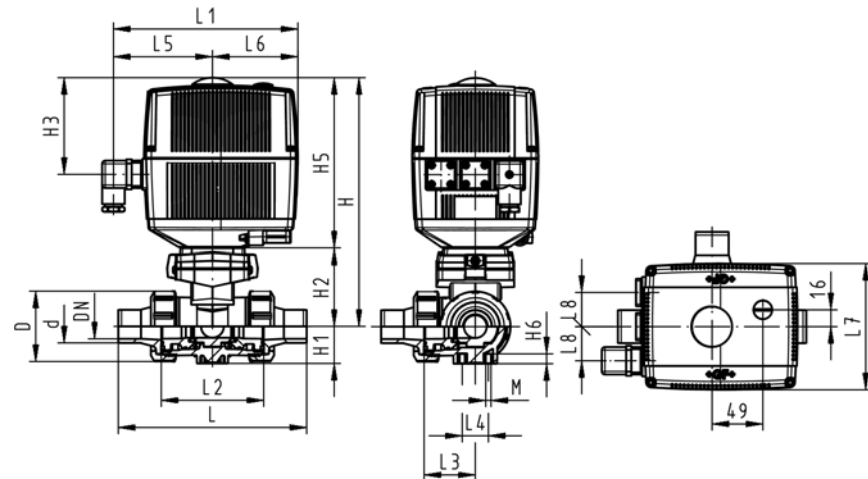
Model:

- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 185 042	199 185 052
20	15	10	200	199 185 043	199 185 053
25	20	10	470	199 185 044	199 185 054
32	25	10	793	199 185 045	199 185 055
40	32	10	1290	199 185 046	199 185 056
50	40	10	1910	199 185 047	199 185 057
63	50	10	3100	199 185 048	199 185 058

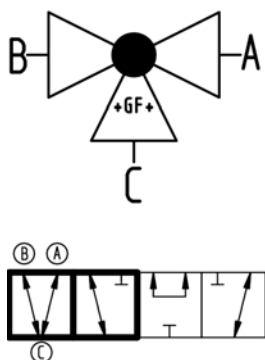
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	131	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	141	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	165	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	182	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	209	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	242	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	302	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PVC-U metric

3-Way ball valve type 185 PVC-U Horizontal/T-port 24V With manual emergency override With solvent cement sockets metric



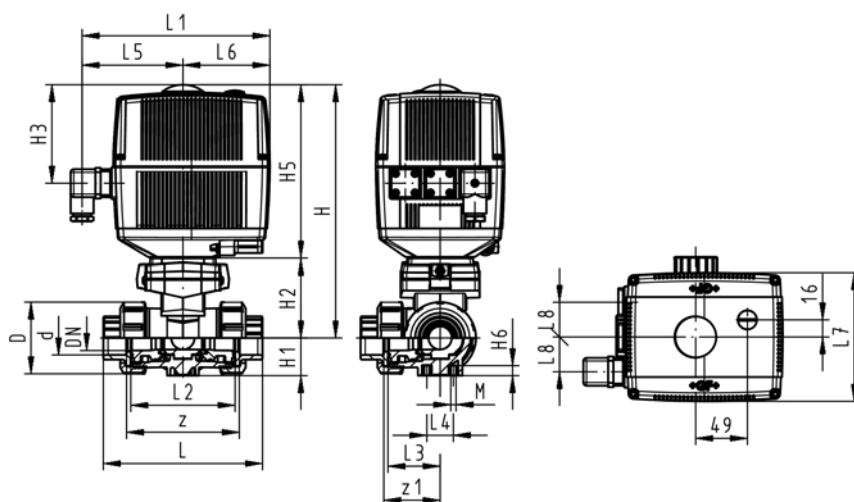
Model:

- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 185 242	199 185 252
20	15	10	200	199 185 243	199 185 253
25	20	10	470	199 185 244	199 185 254
32	25	10	793	199 185 245	199 185 255
40	32	10	1290	199 185 246	199 185 256
50	40	10	1910	199 185 247	199 185 257
63	50	10	3100	199 185 248	199 185 258

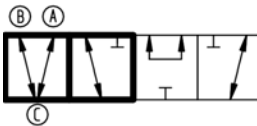
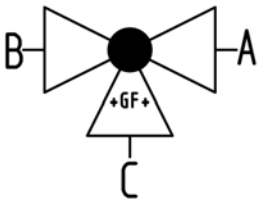
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	81	40
20	33	6	81	40
25	33	6	94	47
32	33	6	107	54
40	33	8	130	65
50	33	8	143	72
63	33	8	185	92



PVC-U metric

3-Way ball valve type 185 PVC-U Horizontal/T-port 24V With manual emergency override With solvent cement spigots metric



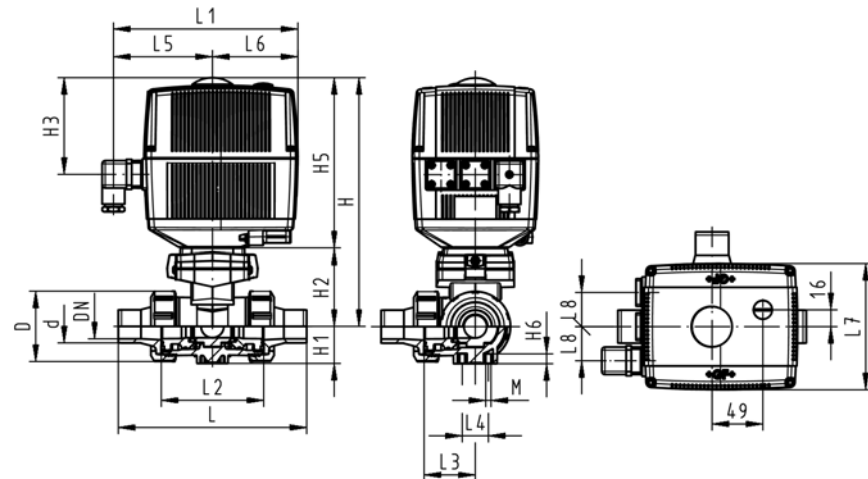
Model:

- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 185 222	199 185 232
20	15	10	200	199 185 223	199 185 233
25	20	10	470	199 185 224	199 185 234
32	25	10	793	199 185 225	199 185 235
40	32	10	1290	199 185 226	199 185 236
50	40	10	1910	199 185 227	199 185 237
63	50	10	3100	199 185 228	199 185 238

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	131	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	141	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	165	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	182	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	209	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	242	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	302	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8

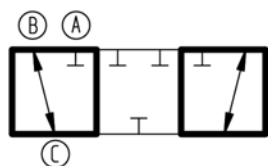
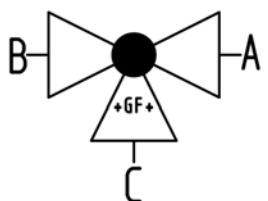


PVC-U metric

3-Way ball valve type 188 PVC-U Vertical/L-port 100-230V With manual emergency override With solvent cement sockets metric

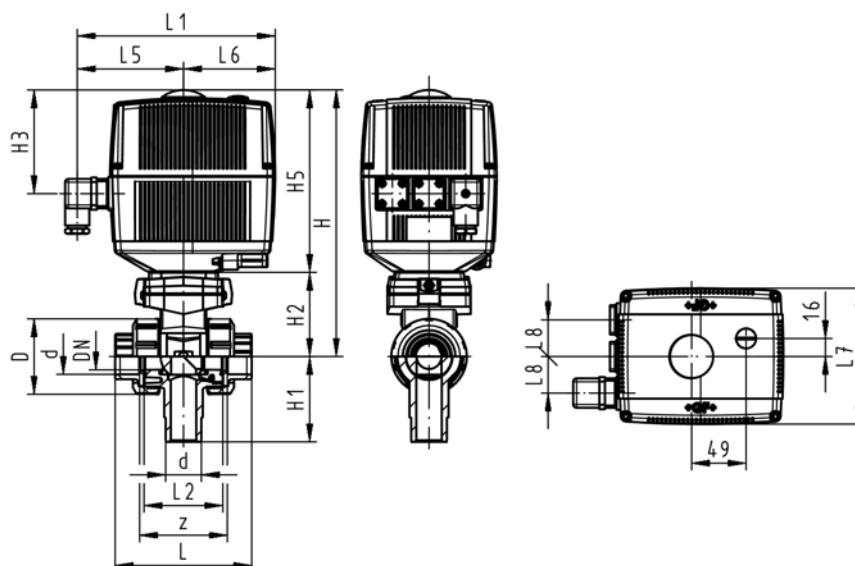
Model:

- Vertical inlet solvent cement spigot metric
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 180°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 10 s/180°<)
- Easy installation and removal using union on third outlet



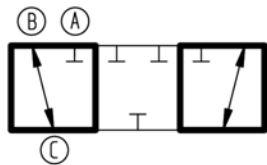
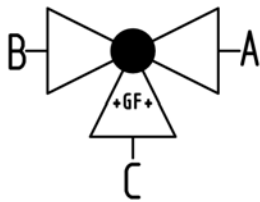
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	49	199 188 242	199 188 252
20	15	10	77	199 188 243	199 188 253
25	20	10	146	199 188 244	199 188 254
32	25	10	260	199 188 245	199 188 255
40	32	10	437	199 188 246	199 188 256
50	40	10	667	199 188 247	199 188 257
63	50	10	1293	199 188 248	199 188 258

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	231	62	64	94	167	92	180	56	97	83	122	33	64
20	50	231	62	64	94	167	95	180	56	97	83	122	33	64
25	58	240	72	73	94	167	111	180	66	97	83	122	33	74
32	68	240	77	73	94	167	123	180	71	97	83	122	33	79
40	84	251	87	84	94	167	146	180	85	97	83	122	33	95
50	97	251	97	84	94	167	157	180	89	97	83	122	33	95
63	124	273	112	106	94	167	183	180	101	97	83	122	33	107



PVC-U metric

3-Way ball valve type 188 PVC-U Vertical/L-port 100-230V With manual emergency override With solvent cement spigots metric

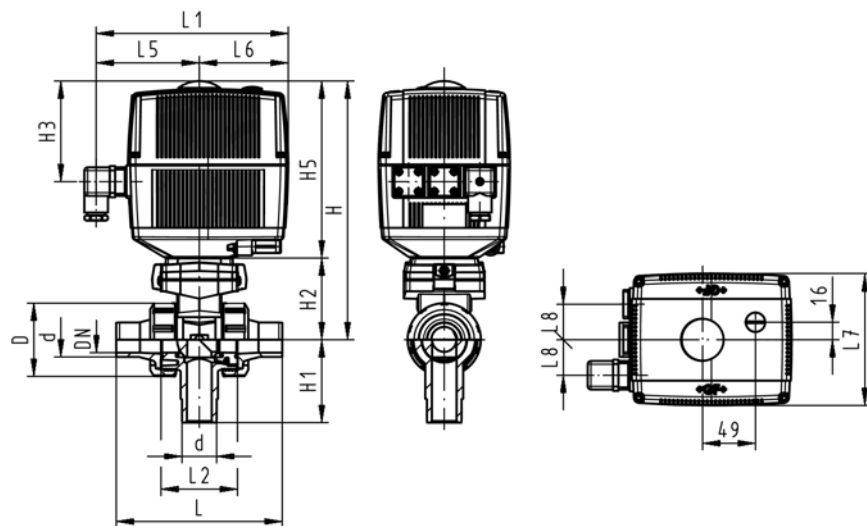


Model:

- Vertical inlet solvent cement spigot metric
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 180°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 10 s/180°<)
- Easy installation and removal using union on third outlet

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	49	199 188 062	199 188 072
20	15	10	77	199 188 063	199 188 073
25	20	10	146	199 188 064	199 188 074
32	25	10	260	199 188 065	199 188 075
40	32	10	437	199 188 066	199 188 076
50	40	10	667	199 188 067	199 188 077
63	50	10	1293	199 188 068	199 188 078

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	231	62	64	94	167	114	180	56	97	83	122	33
20	50	231	62	64	94	167	124	180	56	97	83	122	33
25	58	240	72	73	94	167	144	180	66	97	83	122	33
32	68	240	77	73	94	167	154	180	71	97	83	122	33
40	84	251	87	84	94	167	174	180	85	97	83	122	33
50	97	251	97	84	94	167	194	180	89	97	83	122	33
63	124	273	112	106	94	167	224	180	101	97	83	122	33



PVC-U metric

3-Way ball valve type 188 PVC-U

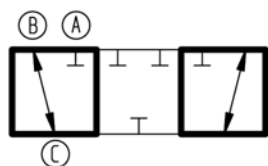
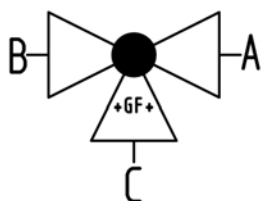
Vertical/L-port 24V

With manual emergency override

With solvent cement sockets metric

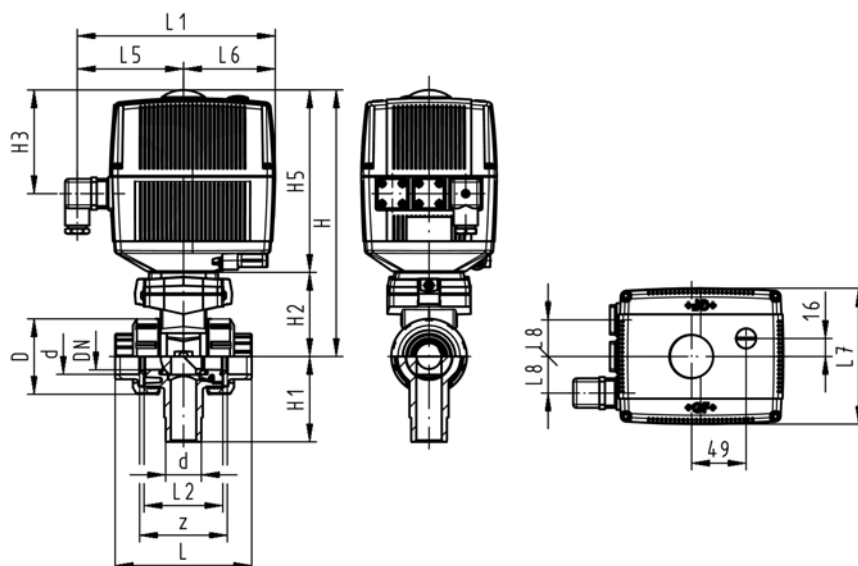
Model:

- Vertical inlet solvent cement spigot metric
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 180°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 10 s/180°<)
- Easy installation and removal using union on third outlet



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	49	199 188 262	199 188 272
20	15	10	77	199 188 263	199 188 273
25	20	10	146	199 188 264	199 188 274
32	25	10	260	199 188 265	199 188 275
40	32	10	437	199 188 266	199 188 276
50	40	10	667	199 188 267	199 188 277
63	50	10	1293	199 188 268	199 188 278

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	231	62	64	94	167	92	180	56	97	83	122	33	64
20	50	231	62	64	94	167	95	180	56	97	83	122	33	64
25	58	240	72	73	94	167	111	180	66	97	83	122	33	74
32	68	240	77	73	94	167	123	180	71	97	83	122	33	79
40	84	251	87	84	94	167	146	180	85	97	83	122	33	95
50	97	251	97	84	94	167	157	180	89	97	83	122	33	95
63	124	273	112	106	94	167	183	180	101	97	83	122	33	107



PVC-U metric

3-Way ball valve type 188 PVC-U

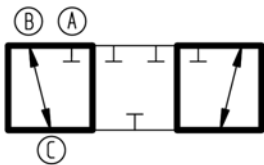
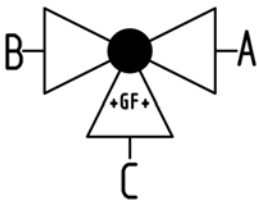
Vertical/L-port 24V

With manual emergency override

With solvent cement spigots metric

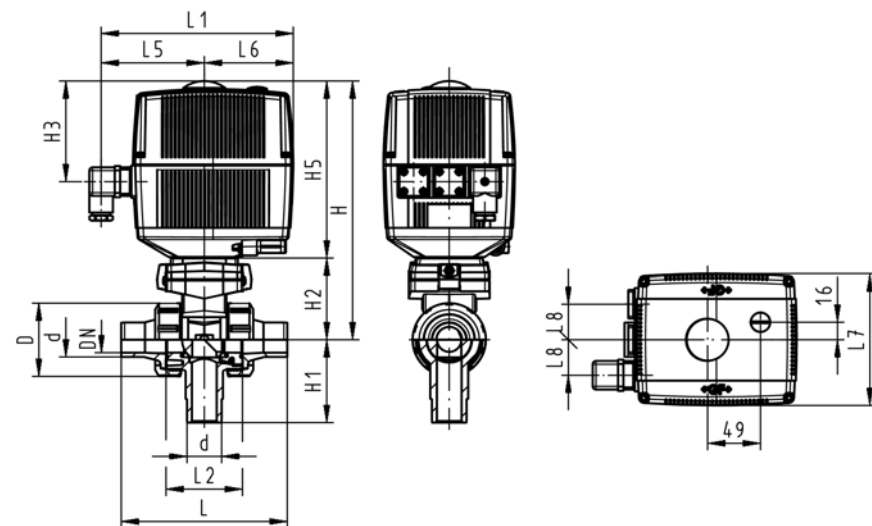
Model:

- Vertical inlet solvent cement spigot metric
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 180°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 10 s/180°<)
- Easy installation and removal using union on third outlet



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	49	199 188 102	199 188 112
20	15	10	77	199 188 103	199 188 113
25	20	10	146	199 188 104	199 188 114
32	25	10	260	199 188 105	199 188 115
40	32	10	437	199 188 106	199 188 116
50	40	10	667	199 188 107	199 188 117
63	50	10	1293	199 188 108	199 188 118

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	231	62	64	94	167	114	180	56	97	83	122	33
20	50	231	62	64	94	167	124	180	56	97	83	122	33
25	58	240	72	73	94	167	144	180	66	97	83	122	33
32	68	240	77	73	94	167	154	180	71	97	83	122	33
40	84	251	87	84	94	167	174	180	85	97	83	122	33
50	97	251	97	84	94	167	194	180	89	97	83	122	33
63	124	273	112	106	94	167	224	180	101	97	83	122	33



PVC-U metric

Ball valves pneumatic

Ball valve type 230 PVC-U FC (Fail safe to close)

With manual override

With solvent cement sockets metric

Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

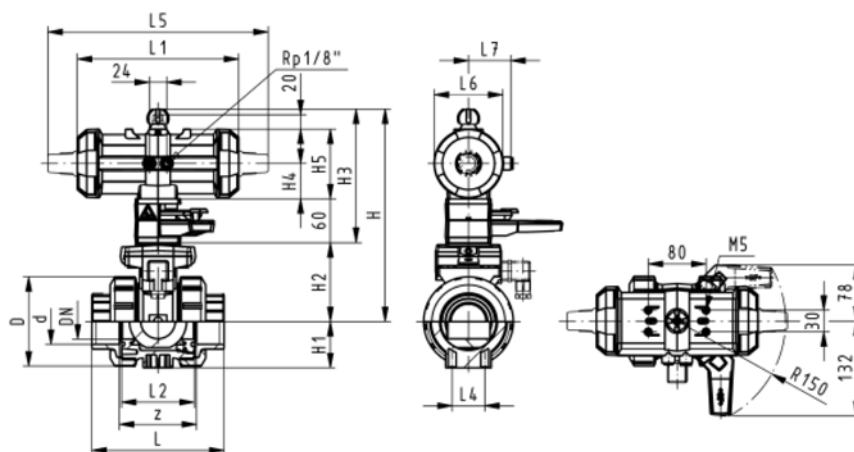
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 002	199 230 012
20	15	10	185	199 230 003	199 230 013
25	20	10	350	199 230 004	199 230 014
32	25	10	700	199 230 005	199 230 015
40	32	10	1000	199 230 006	199 230 016
50	40	10	1600	199 230 007	199 230 017
63	50	10	3100	199 230 008	199 230 018

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



PVC-U metric

Ball valve type 230 PVC-U FC (Fail safe to close) With manual override With solvent cement spigots metric



DN10/15 - 50

Model:

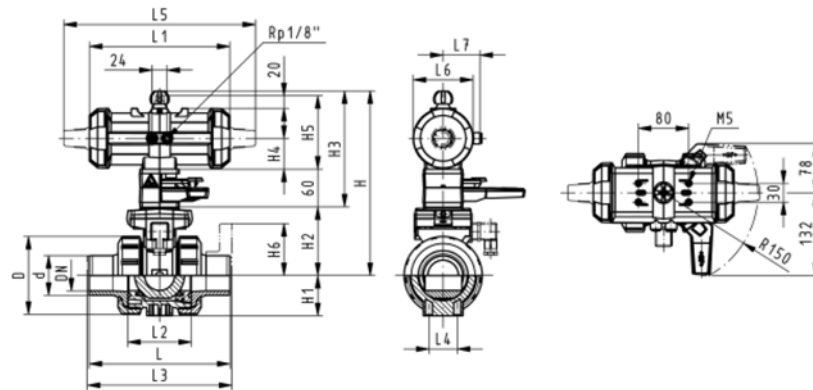
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90° < 1-2 s

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 022	199 230 032
20	15	10	185	199 230 023	199 230 033
25	20	10	350	199 230 024	199 230 034
32	25	10	700	199 230 025	199 230 035
40	32	10	1000	199 230 026	199 230 036
50	40	10	1600	199 230 027	199 230 037
63	50	10	3100	199 230 028	199 230 038

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	114	194	56	130	25	261	76	48
20	50	159	27	62	168	40	77	124	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	144	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	154	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	174	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	194	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	224	224	101	230	45	305	95	59



PVC-U metric

Ball valve type 230 PVC-U FC (Fail safe to close) With manual override With threaded sockets Rp



DN10/15 - 50

Model:

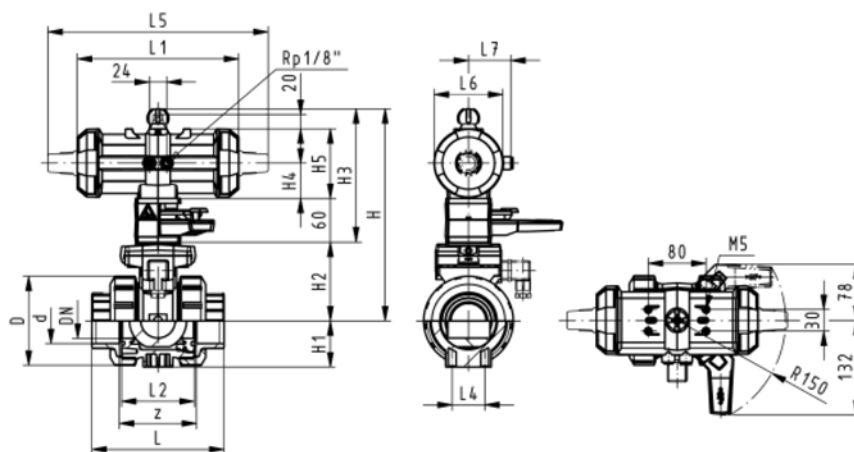
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 230 362	199 230 372
1/2	15	10	185	199 230 363	199 230 373
3/4	20	10	350	199 230 364	199 230 374
1	25	10	700	199 230 365	199 230 375
1 1/4	32	10	1000	199 230 366	199 230 376
1 1/2	40	10	1600	199 230 367	199 230 377
2	50	10	3100	199 230 368	199 230 378

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
1	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



PVC-U metric

Ball valve type 230 PVC-U FC (Fail safe to close) With manual override With fixed flanges serrated metric



DN10/15 - 50

Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

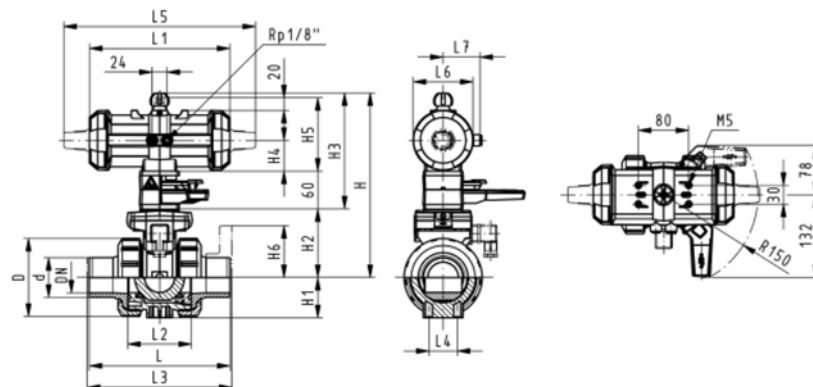
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
20	15	½	10	185	199 230 243	199 230 253	
25	20	¾	10	350	199 230 244	199 230 254	
32	25	1	10	700	199 230 245	199 230 255	
40	32	1 ¼	10	1000	199 230 246	199 230 256	
50	40	1 ½	10	1600	199 230 247	199 230 257	
63	50	2	10	3100	199 230 248	199 230 258	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	27	62	168	40	77	48	124	194	56	130	25	261	76
25	58	168	30	71	168	40	77	53	144	194	65	150	25	261	76
32	68	168	36	71	168	40	77	58	154	194	71	160	25	261	76
40	84	202	44	84	187	51	99	70	174	224	85	180	45	305	95
50	97	202	51	84	187	51	99	75	194	224	89	200	45	305	95
63	124	225	64	106	187	51	99	83	224	224	101	230	45	305	95

d [mm]	L7 [mm]
20	48
25	48
32	48
40	59
50	59
63	59



PVC-U metric

Ball valve type 230 PVC-U FO (Fail safe to open)

With manual override

With solvent cement sockets metric

Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

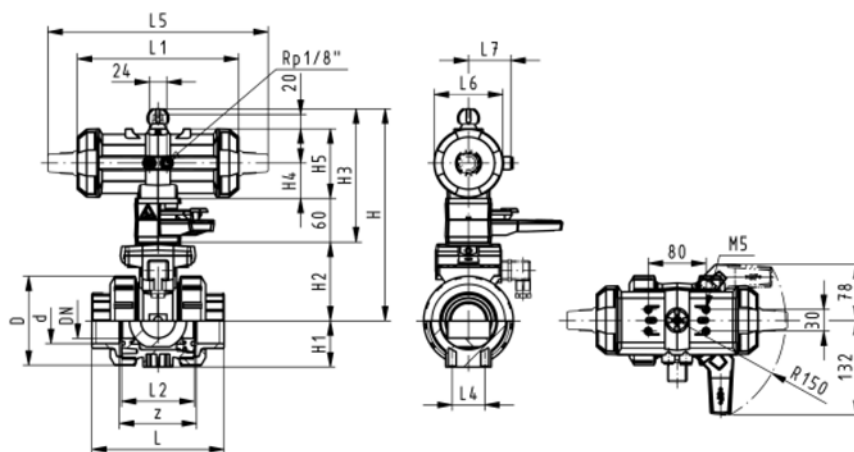
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 042	199 230 052
20	15	10	185	199 230 043	199 230 053
25	20	10	350	199 230 044	199 230 054
32	25	10	700	199 230 045	199 230 055
40	32	10	1000	199 230 046	199 230 056
50	40	10	1600	199 230 047	199 230 057
63	50	10	3100	199 230 048	199 230 058

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



PVC-U metric

Ball valve type 230 PVC-U FO (Fail safe to open) With manual override With solvent cement spigots metric



DN10/15 - 50

Model:

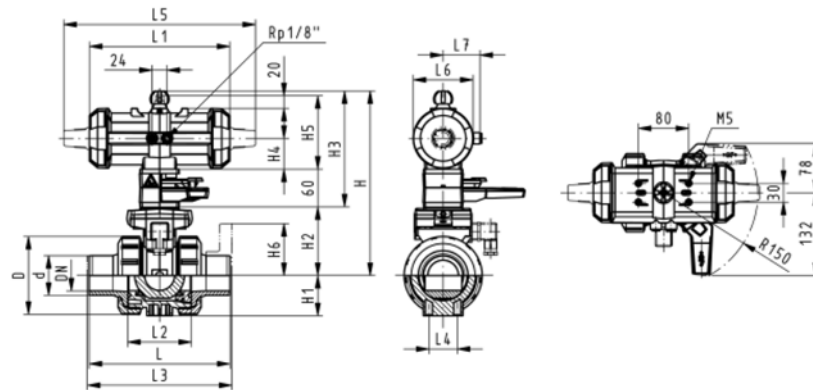
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 062	199 230 072
20	15	10	185	199 230 063	199 230 073
25	20	10	350	199 230 064	199 230 074
32	25	10	700	199 230 065	199 230 075
40	32	10	1000	199 230 066	199 230 076
50	40	10	1600	199 230 067	199 230 077
63	50	10	3100	199 230 068	199 230 078

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	114	194	56	130	25	261	76	48
20	50	159	27	62	168	40	77	124	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	144	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	154	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	174	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	194	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	224	224	101	230	45	305	95	59



PVC-U metric

Ball valve type 230 PVC-U FO (Fail safe to open) With manual override With threaded sockets Rp



DN10/15 - 50

Model:

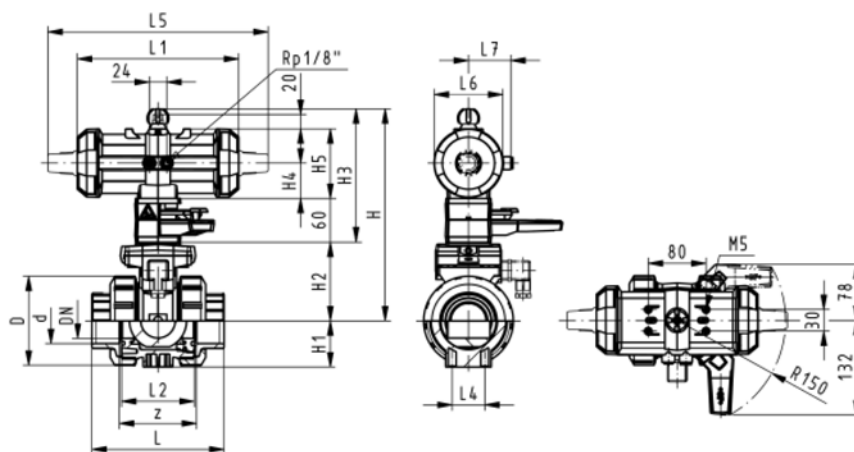
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 230 382	199 230 392
1/2	15	10	185	199 230 383	199 230 393
3/4	20	10	350	199 230 384	199 230 394
1	25	10	700	199 230 385	199 230 395
1 1/4	32	10	1000	199 230 386	199 230 396
1 1/2	40	10	1600	199 230 387	199 230 397
2	50	10	3100	199 230 388	199 230 398

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
1	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



PVC-U metric

Ball valve type 230 PVC-U FO (Fail safe to open) With manual override With fixed flanges serrated metric



DN10/15 - 50

Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

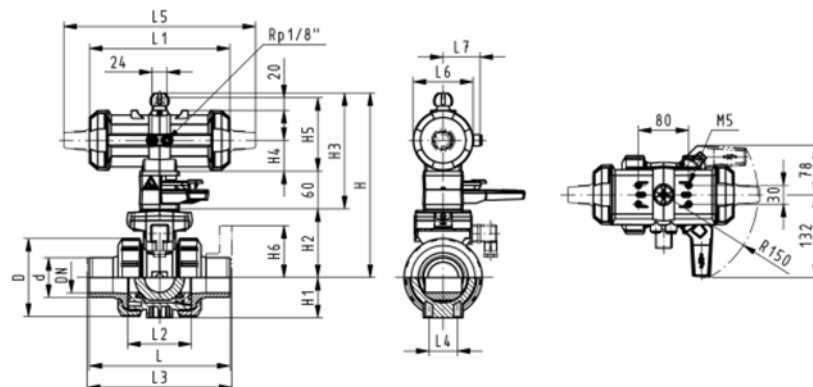
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
20	15	½	10	185	199 230 263	199 230 273	
25	20	¾	10	350	199 230 264	199 230 274	
32	25	1	10	700	199 230 265	199 230 275	
40	32	1 ¼	10	1000	199 230 266	199 230 276	
50	40	1 ½	10	1600	199 230 267	199 230 277	
63	50	2	10	3100	199 230 268	199 230 278	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	27	62	168	40	77	48	124	194	56	130	25	261	76
25	58	168	30	71	168	40	77	53	144	194	65	150	25	261	76
32	68	168	36	71	168	40	77	58	154	194	71	160	25	261	76
40	84	202	44	84	187	51	99	70	174	224	85	180	45	305	95
50	97	202	51	84	187	51	99	75	194	224	89	200	45	305	95
63	124	225	64	106	187	51	99	83	224	224	101	230	45	305	95

d [mm]	L7 [mm]
20	48
25	48
32	48
40	59
50	59
63	59



PVC-U metric

Ball valve type 230 PVC-U DA (Double acting)

With manual override

With solvent cement sockets metric

Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

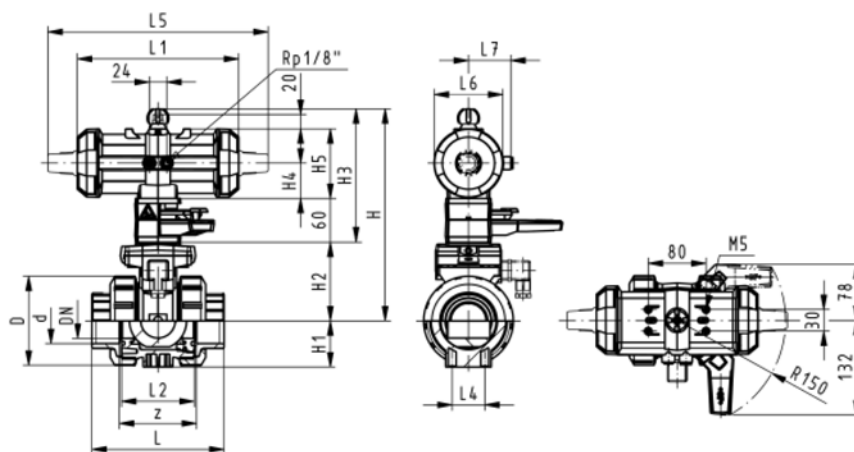
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 082	199 230 092
20	15	10	185	199 230 083	199 230 093
25	20	10	350	199 230 084	199 230 094
32	25	10	700	199 230 085	199 230 095
40	32	10	1000	199 230 086	199 230 096
50	40	10	1600	199 230 087	199 230 097
63	50	10	3100	199 230 088	199 230 098

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



PVC-U metric

Ball valve type 230 PVC-U DA (Double acting) With manual override With solvent cement spigots metric



DN10/15 - 50

Model:

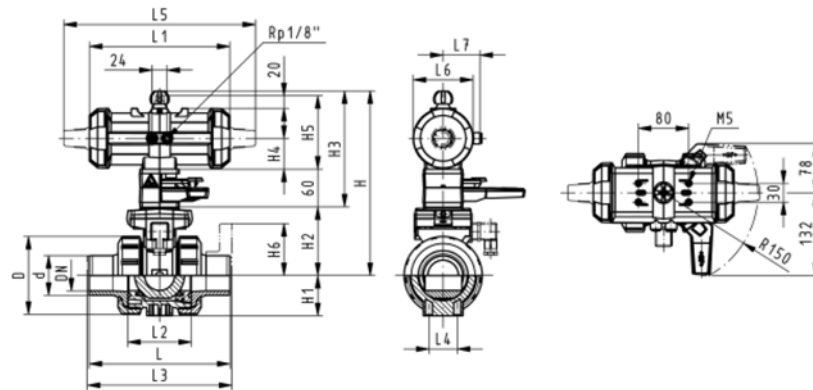
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 102	199 230 112
20	15	10	185	199 230 103	199 230 113
25	20	10	350	199 230 104	199 230 114
32	25	10	700	199 230 105	199 230 115
40	32	10	1000	199 230 106	199 230 116
50	40	10	1600	199 230 107	199 230 117
63	50	10	3100	199 230 108	199 230 118

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	114	194	56	130	25	261	76	48
20	50	159	27	62	168	40	77	124	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	144	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	154	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	174	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	194	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	224	224	101	230	45	305	95	59

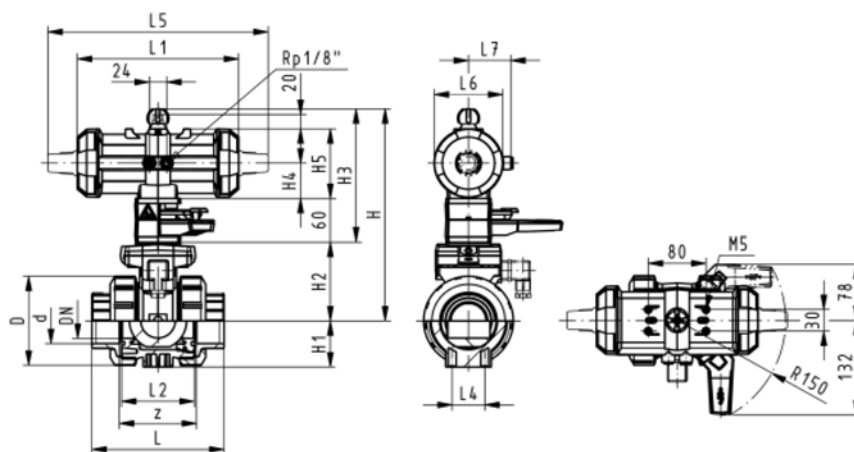


Ball valve type 230 PVC-U DA (Double acting)
With manual override
With threaded sockets Rp

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ \leq$ 1-2 s

- Individual configuration of the valve (see diagram)

Rp	D	H	H1	H2	H3	H4	H5	L	L1	L2	L4	L5	L6	L7	z
[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
⅜	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
½	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
¾	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
1	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
1 ¼	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
1 ½	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



PVC-U metric

Ball valve type 230 PVC-U DA (Double acting) With manual override With fixed flanges serrated metric



DN10/15 - 50

Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

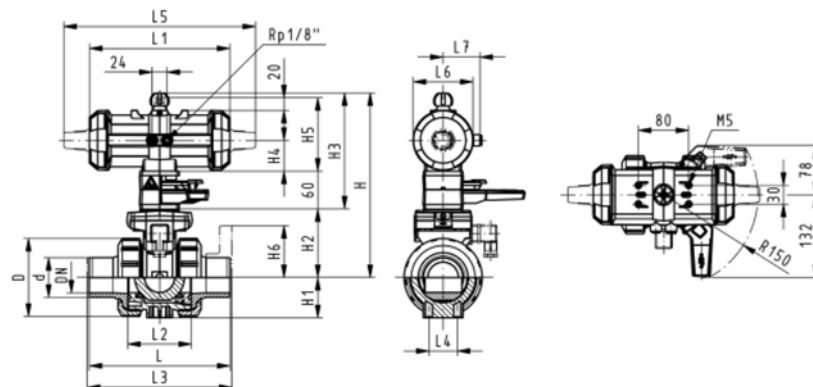
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
20	15	½	10	185	199 230 283	199 230 293	
25	20	¾	10	350	199 230 284	199 230 294	
32	25	1	10	700	199 230 285	199 230 295	
40	32	1 ¼	10	1000	199 230 286	199 230 296	
50	40	1 ½	10	1600	199 230 287	199 230 297	
63	50	2	10	3100	199 230 288	199 230 298	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	27	62	168	40	77	48	124	194	56	130	25	261	76
25	58	168	30	71	168	40	77	53	144	194	65	150	25	261	76
32	68	168	36	71	168	40	77	58	154	194	71	160	25	261	76
40	84	202	44	84	187	51	99	70	174	224	85	180	45	305	95
50	97	202	51	84	187	51	99	75	194	224	89	200	45	305	95
63	124	225	64	106	187	51	99	83	224	224	101	230	45	305	95

d [mm]	L7 [mm]
20	48
25	48
32	48
40	59
50	59
63	59



PVC-U metric

Ball valve type 230 PVC-U FC (Fail safe to close)

Without manual override

With solvent cement sockets metric

Model:

- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°< 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

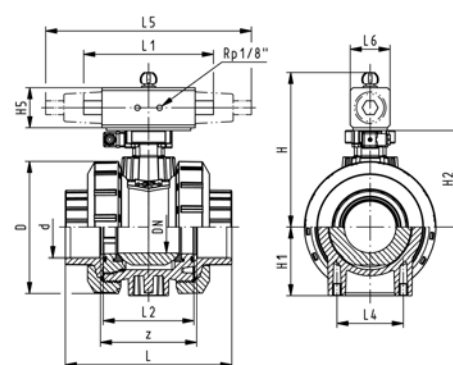
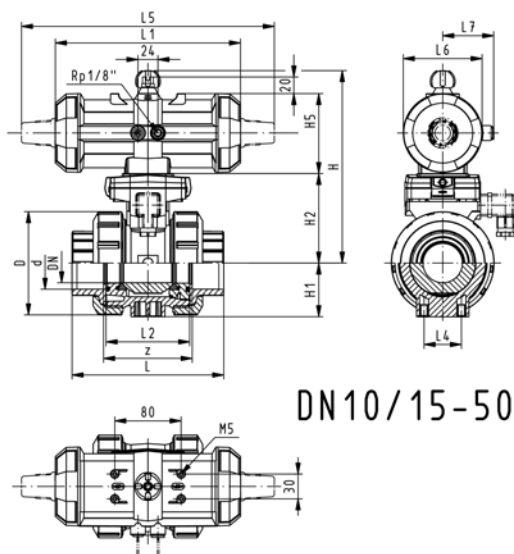


DN10/15 - 50



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 122	199 230 132
20	15	10	185	199 230 123	199 230 133
25	20	10	350	199 230 124	199 230 134
32	25	10	700	199 230 125	199 230 135
40	32	10	1000	199 230 126	199 230 136
50	40	10	1600	199 230 127	199 230 137
63	50	10	3100	199 230 128	199 230 138
75	65	10	5000	199 230 129	199 230 139
90	80	10	7000	199 230 130	199 230 140
110	100	10	11000	199 230 131	199 230 141

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	77	92	194	56	25	261	76	48	64
20	50	159	27	62	77	95	194	56	25	261	76	48	64
25	58	168	30	71	77	110	194	65	25	261	76	48	72
32	68	168	36	71	77	123	194	71	25	261	76	48	79
40	84	202	44	84	99	146	224	85	45	305	95	59	94
50	97	202	51	84	99	157	224	89	45	305	95	59	95
63	124	225	64	106	99	183	224	101	45	305	95	59	107
75	166	262	85	156	70	233		136	70	276	65		144
90	200	281	105	168	78	254		141	70	341	72		151
110	238	292	123	175	86	301		164	120	369	80		174



PVC-U metric

Ball valve type 230 PVC-U FC (Fail safe to close) Without manual override With solvent cement spigots metric



DN10/15 - 50



Model:

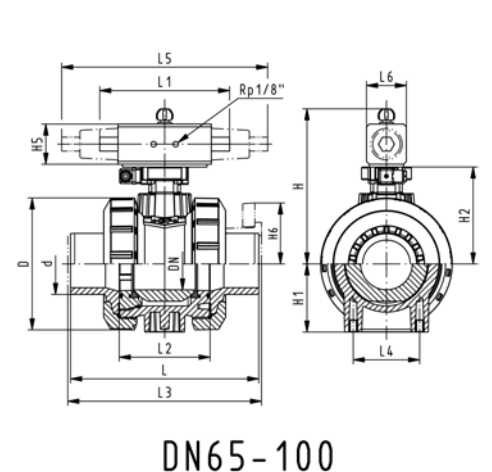
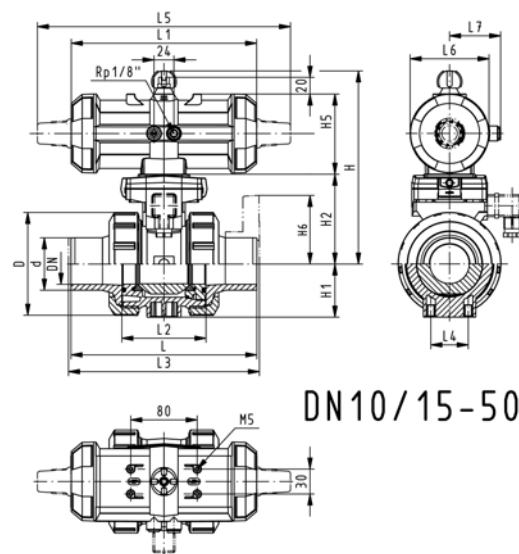
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 142	199 230 152
20	15	10	185	199 230 143	199 230 153
25	20	10	350	199 230 144	199 230 154
32	25	10	700	199 230 145	199 230 155
40	32	10	1000	199 230 146	199 230 156
50	40	10	1600	199 230 147	199 230 157
63	50	10	3100	199 230 148	199 230 158
75	65	10	5000	199 230 149	199 230 159
90	80	10	7000	199 230 150	199 230 160
110	100	10	11000	199 230 151	199 230 161

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	77	114	194	56	0	25	261	76	48
20	50	159	27	62	77	124	194	56	130	25	261	76	48
25	58	168	30	71	77	144	194	65	150	25	261	76	48
32	68	168	36	71	77	154	194	71	160	25	261	76	48
40	84	202	44	84	99	174	224	85	180	45	305	95	59
50	97	202	51	84	99	194	224	89	200	45	305	95	59
63	124	225	64	106	99	224	224	101	230	45	305	95	59
75	166	262	85	156	70	284		136	290	70	276	65	
90	200	281	105	168	78	300		141	310	70	341	72	
110	238	292	123	175	86	340		164	350	120	369	80	



PVC-U metric

Ball valve type 230 PVC-U FC (Fail safe to close) Without manual override With threaded sockets Rp



DN10/15 - 50



Model:

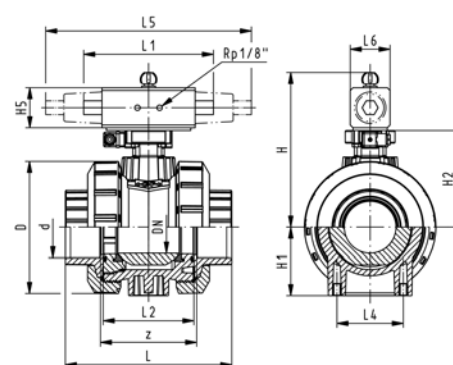
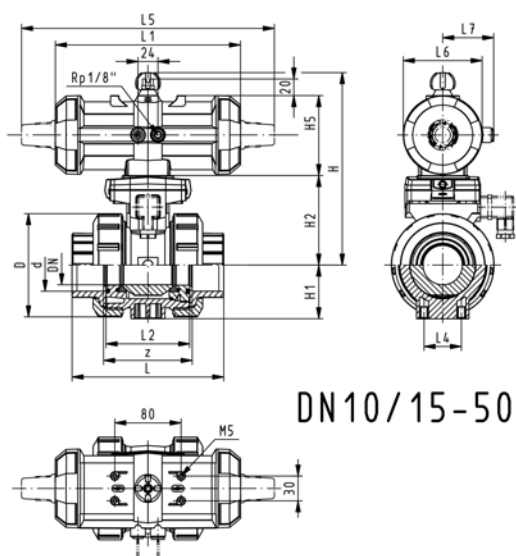
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°< 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 230 662	199 230 672
1/2	15	10	185	199 230 663	199 230 673
3/4	20	10	350	199 230 664	199 230 674
1	25	10	700	199 230 665	199 230 675
1 1/4	32	10	1000	199 230 666	199 230 676
1 1/2	40	10	1600	199 230 667	199 230 677
2	50	10	3100	199 230 668	199 230 678
2 1/2	65	10	5000	199 230 669	199 230 679
3	80	10	7000	199 230 670	199 230 680
4	100	10	11000	199 230 671	199 230 681

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	77	110	194	65	25	261	76	48	72
1	68	168	36	71	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	99	157	224	89	45	305	95	59	95
2	124	225	64	106	99	183	224	101	45	305	95	59	107
2 1/2	166	262	85	156	70	233		136	70	276	65		144
3	200	281	105	168	78	254		141	70	341	72		151
4	238	292	123	175	86	301		164	120	369	80		174



PVC-U metric

Ball valve type 230 PVC-U FC (Fail safe to close) Without manual override With fixed flanges serrated metric



DN10/15 - 50

Model:

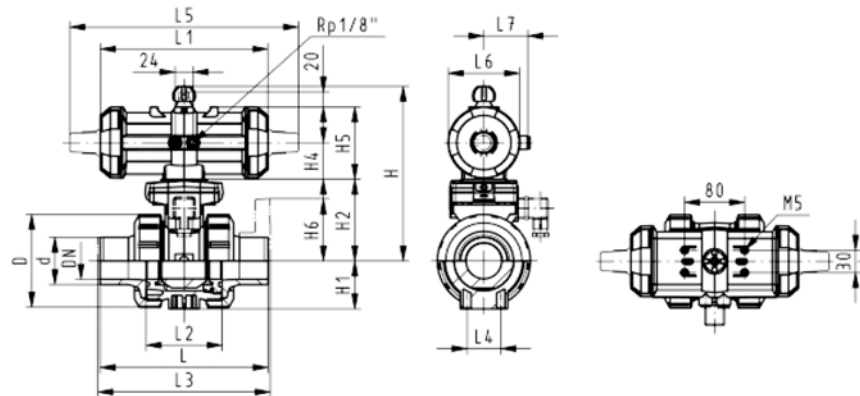
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90° < 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	½	10	185	199 230 303	199 230 313
25	20	¾	10	350	199 230 304	199 230 314
32	25	1	10	700	199 230 305	199 230 315
40	32	1 ¼	10	1000	199 230 306	199 230 316
50	40	1 ½	10	1600	199 230 307	199 230 317
63	50	2	10	3100	199 230 308	199 230 318

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	40	77	48	124	194	56	130	25	261	76	48
25	58	168	30	71	40	77	53	144	194	65	150	25	261	76	48
32	68	168	36	71	40	77	58	154	194	71	160	25	261	76	48
40	84	202	44	84	51	99	70	174	224	85	180	45	305	95	59
50	97	202	51	84	51	99	75	194	224	89	200	45	305	95	59
63	124	225	64	106	51	99	83	224	224	101	230	45	305	95	59



PVC-U metric

Ball valve type 230 PVC-U FC (Fail safe to close)

Without manual override

With backing flanges PP-st metric



Model:

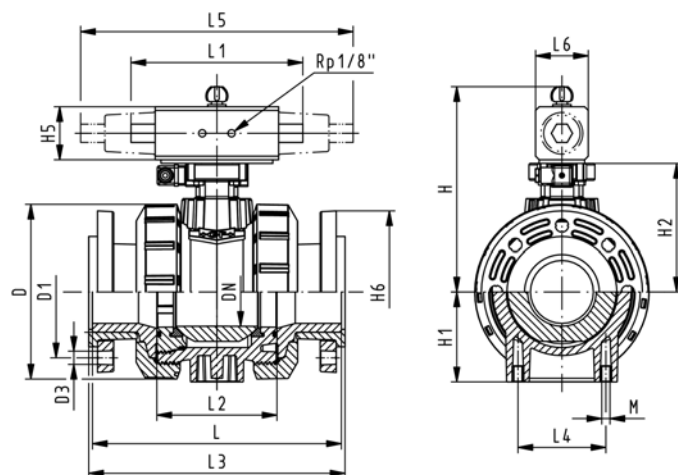
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
75	65	10	5000	199 234 469	199 234 479	
90	80	10	7000	199 234 470	199 234 480	
110	100	10	11000	199 234 471	199 234 481	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	
75	166	262	85	156	70	93	284	136	290	70	276	65	
90	200	281	105	168	78	100	300	141	310	70	341	72	
110	238	292	123	175	86	110	340	164	350	120	369	80	



PVC-U metric

Ball valve type 230 PVC-U FO (Fail safe to open) Without manual override With solvent cement sockets metric

Model:

- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

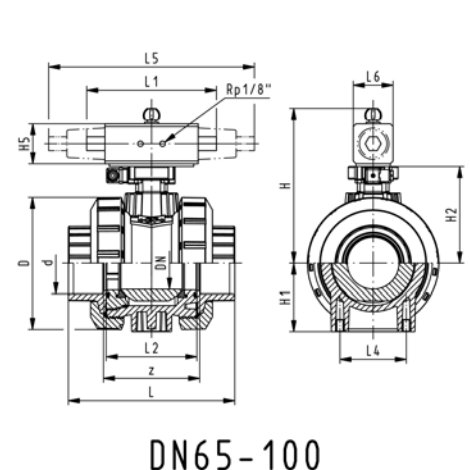
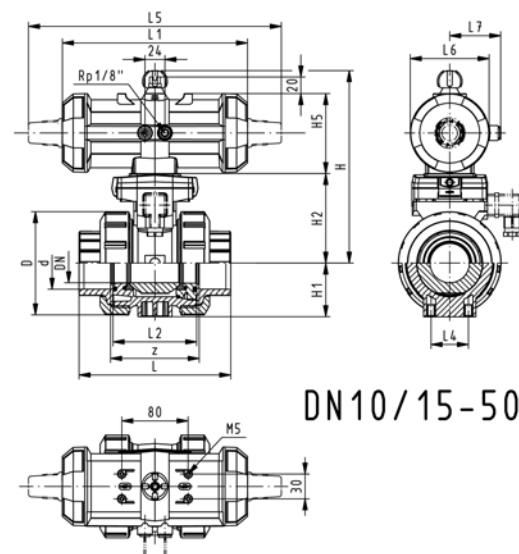
Option:

- Individual configuration of the valve (see diagram)



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 162	199 230 172
20	15	10	185	199 230 163	199 230 173
25	20	10	350	199 230 164	199 230 174
32	25	10	700	199 230 165	199 230 175
40	32	10	1000	199 230 166	199 230 176
50	40	10	1600	199 230 167	199 230 177
63	50	10	3100	199 230 168	199 230 178
75	65	10	5000	199 230 169	199 230 179
90	80	10	7000	199 230 170	199 230 180
110	100	10	11000	199 230 171	199 230 181

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	77	92	194	56	25	261	76	48	64
20	50	159	27	62	77	95	194	56	25	261	76	48	64
25	58	168	30	71	77	110	194	65	25	261	76	48	72
32	68	168	36	71	77	123	194	71	25	261	76	48	79
40	84	202	44	84	99	146	224	85	45	305	95	59	94
50	97	202	51	84	99	157	224	89	45	305	95	59	95
63	124	225	64	106	99	183	224	101	45	305	95	59	107
75	166	262	85	156	70	233		136	70	276	65		144
90	200	281	105	168	78	254		141	70	341	72		151
110	238	292	123	175	86	301		164	120	369	80		174



PVC-U metric

Ball valve type 230 PVC-U FO (Fail safe to open)

Without manual override

With solvent cement spigots metric

Model:

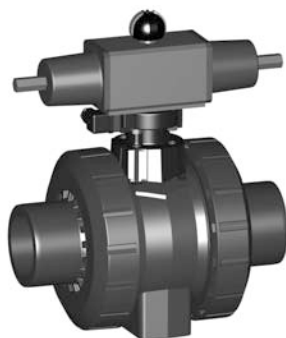
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

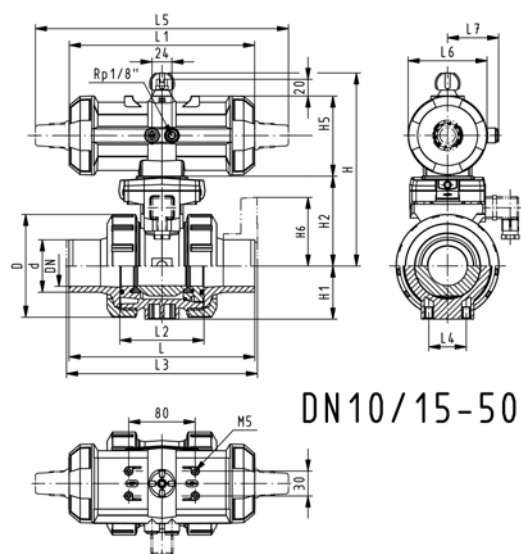


DN10/15 - 50

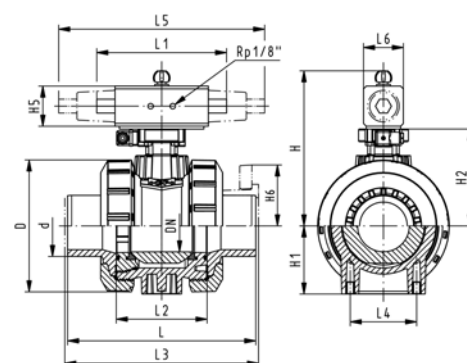


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 182	199 230 192
20	15	10	185	199 230 183	199 230 193
25	20	10	350	199 230 184	199 230 194
32	25	10	700	199 230 185	199 230 195
40	32	10	1000	199 230 186	199 230 196
50	40	10	1600	199 230 187	199 230 197
63	50	10	3100	199 230 188	199 230 198
75	65	10	5000	199 230 189	199 230 199
90	80	10	7000	199 230 190	199 230 200
110	100	10	11000	199 230 191	199 230 201

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	77	114	194	56	0	25	261	76	48
20	50	159	27	62	77	124	194	56	130	25	261	76	48
25	58	168	30	71	77	144	194	65	150	25	261	76	48
32	68	168	36	71	77	154	194	71	160	25	261	76	48
40	84	202	44	84	99	174	224	85	180	45	305	95	59
50	97	202	51	84	99	194	224	89	200	45	305	95	59
63	124	225	64	106	99	224	224	101	230	45	305	95	59
75	166	262	85	156	70	284		136	290	70	276	65	
90	200	281	105	168	78	300		141	310	70	341	72	
110	238	292	123	175	86	340		164	350	120	369	80	



DN10/15-50



DN65-100

PVC-U metric

Ball valve type 230 PVC-U FO (Fail safe to open) Without manual override With threaded sockets Rp

Model:

- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

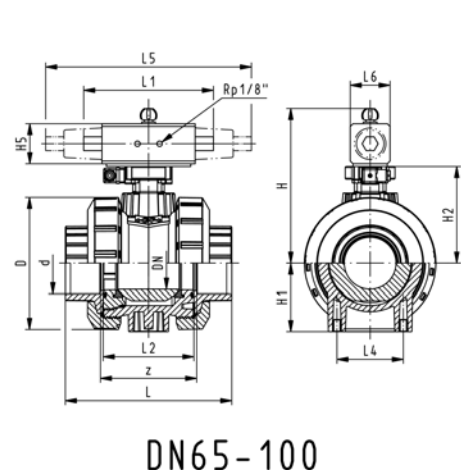
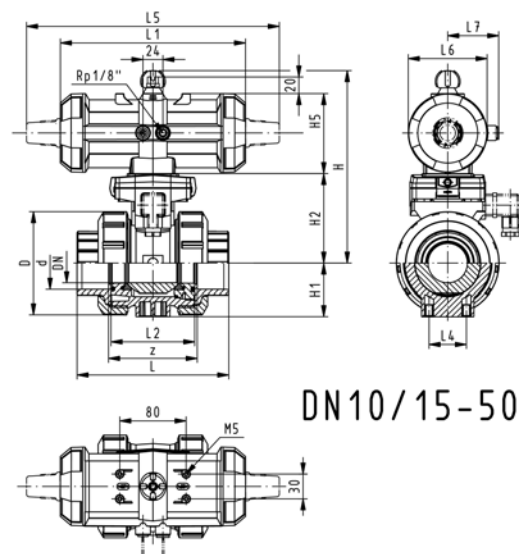


DN10/15 - 50



Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 230 682	199 230 692
1/2	15	10	185	199 230 683	199 230 693
3/4	20	10	350	199 230 684	199 230 694
1	25	10	700	199 230 685	199 230 695
1 1/4	32	10	1000	199 230 686	199 230 696
1 1/2	40	10	1600	199 230 687	199 230 697
2	50	10	3100	199 230 688	199 230 698
2 1/2	65	10	5000	199 230 689	199 230 699
3	80	10	7000	199 230 690	199 230 700
4	100	10	11000	199 230 691	199 230 701

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	77	110	194	65	25	261	76	48	72
1	68	168	36	71	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	99	157	224	89	45	305	95	59	95
2	124	225	64	106	99	183	224	101	45	305	95	59	107
2 1/2	166	262	85	156	70	233		136	70	276	65		144
3	200	281	105	168	78	254		141	70	341	72		151
4	238	292	123	175	86	301		164	120	369	80		174



PVC-U metric

Ball valve type 230 PVC-U FO (Fail safe to open) Without manual override With fixed flanges serrated metric



DN10/15 - 50

Model:

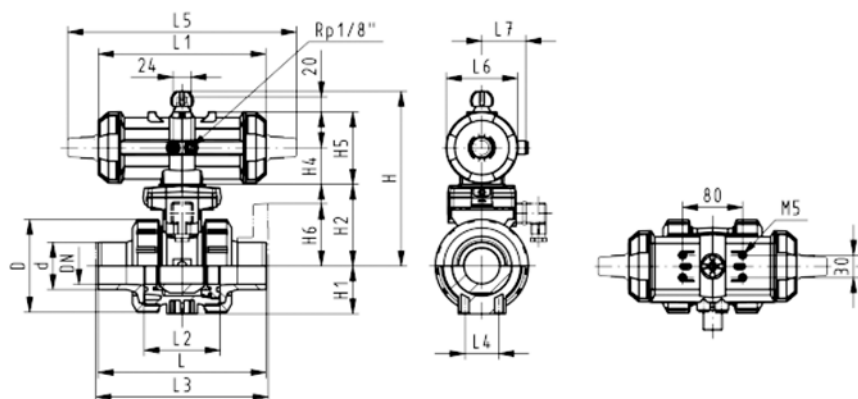
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	½	10	185	199 230 323	199 230 333
25	20	¾	10	350	199 230 324	199 230 334
32	25	1	10	700	199 230 325	199 230 335
40	32	1 ¼	10	1000	199 230 326	199 230 336
50	40	1 ½	10	1600	199 230 327	199 230 337
63	50	2	10	3100	199 230 328	199 230 338

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	40	77	48	124	194	56	130	25	261	76	48
25	58	168	30	71	40	77	53	144	194	65	150	25	261	76	48
32	68	168	36	71	40	77	58	154	194	71	160	25	261	76	48
40	84	202	44	84	51	99	70	174	224	85	180	45	305	95	59
50	97	202	51	84	51	99	75	194	224	89	200	45	305	95	59
63	124	225	64	106	51	99	83	224	224	101	230	45	305	95	59



PVC-U metric

Ball valve type 230 PVC-U FO (Fail safe to open) Without manual override With backing flanges PP-st metric



Model:

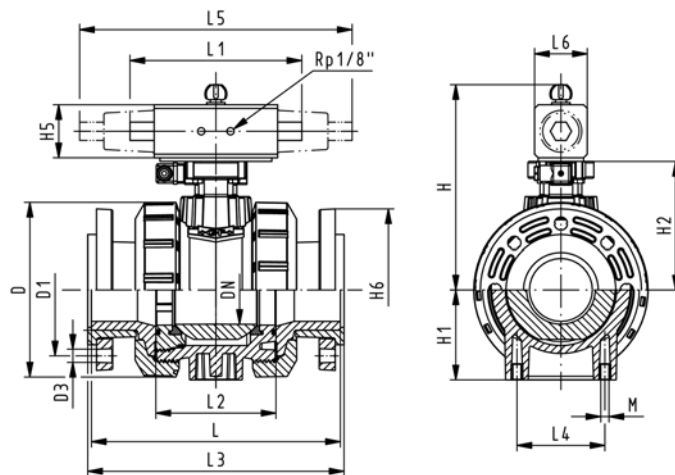
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
75	65	10	5000	199 234 489	199 234 499	
90	80	10	7000	199 234 490	199 234 500	
110	100	10	11000	199 234 491	199 234 501	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	
75	166	262	85	156	70	93	284	136	290	70	276	65	
90	200	281	105	168	78	100	300	141	310	70	341	72	
110	238	292	123	175	86	110	340	164	350	120	369	80	



PVC-U metric

Ball valve type 230 PVC-U DA (Double acting)

Without manual override

With solvent cement sockets metric

Model:

- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°< 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

Option:

- Individual configuration of the valve (see diagram)

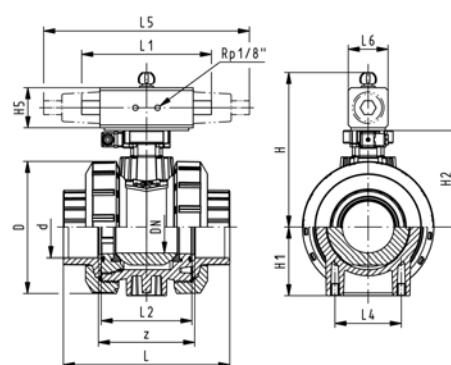
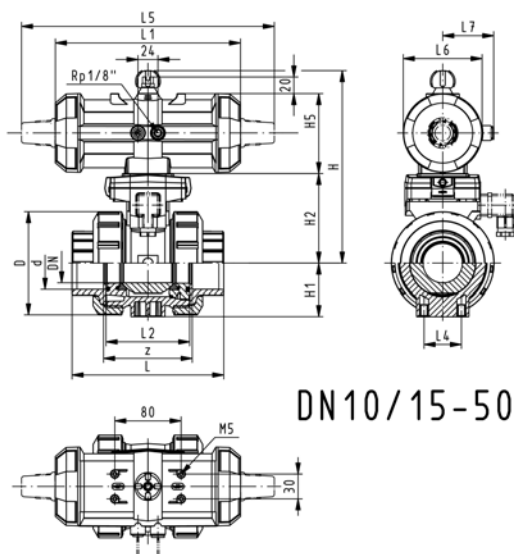


DN10/15 - 50



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 202	199 230 212
20	15	10	185	199 230 203	199 230 213
25	20	10	350	199 230 204	199 230 214
32	25	10	700	199 230 205	199 230 215
40	32	10	1000	199 230 206	199 230 216
50	40	10	1600	199 230 207	199 230 217
63	50	10	3100	199 230 208	199 230 218
75	65	10	5000	199 230 209	199 230 219
90	80	10	7000	199 230 210	199 230 220
110	100	10	11000	199 230 211	199 230 221

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	77	92	194	56	25	261	76	48	64
20	50	159	27	62	77	95	194	56	25	261	76	48	64
25	58	168	30	71	77	110	194	65	25	261	76	48	72
32	68	168	36	71	77	123	194	71	25	261	76	48	79
40	84	202	44	84	99	146	224	85	45	305	95	59	94
50	97	202	51	84	99	157	224	89	45	305	95	59	95
63	124	225	64	106	99	183	224	101	45	305	95	59	107
75	166	257	85	156	66	233	144	136	70		60		144
90	200	274	105	168	70	254	152	141	70		65		151
110	238	273	123	175	78	301	169	164	120		72		174



55

PVC-U metric

Ball valve type 230 PVC-U DA (Double acting) Without manual override With threaded sockets Rp



DN10/15 - 50



Model:

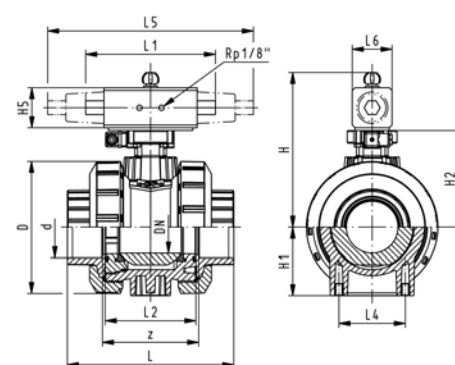
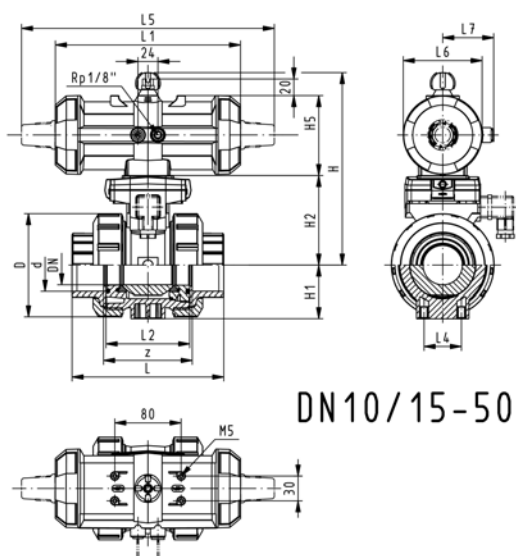
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°< 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 230 712	199 230 732
1/2	15	10	185	199 230 713	199 230 733
3/4	20	10	350	199 230 714	199 230 734
1	25	10	700	199 230 715	199 230 735
1 1/4	32	10	1000	199 230 716	199 230 736
1 1/2	40	10	1600	199 230 717	199 230 737
2	50	10	3100	199 230 718	199 230 738
2 1/2	65	10	5000	199 230 719	199 230 739
3	80	10	7000	199 230 720	199 230 740
4	100	10	11000	199 230 721	199 230 741

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	77	110	194	65	25	261	76	48	72
1	68	168	36	71	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	99	157	224	89	45	305	95	59	95
2	124	225	64	106	99	183	224	101	45	305	95	59	107
2 1/2	166	257	85	156	66	233	144	136	70		60		144
3	200	274	105	168	70	254	152	141	70		65		151
4	238	273	123	175	78	301	169	164	120		72		174



DN65-100

PVC-U metric

Ball valve type 230 PVC-U DA (Double acting) Without manual override With fixed flanges metric



DN10/15 - 50

Model:

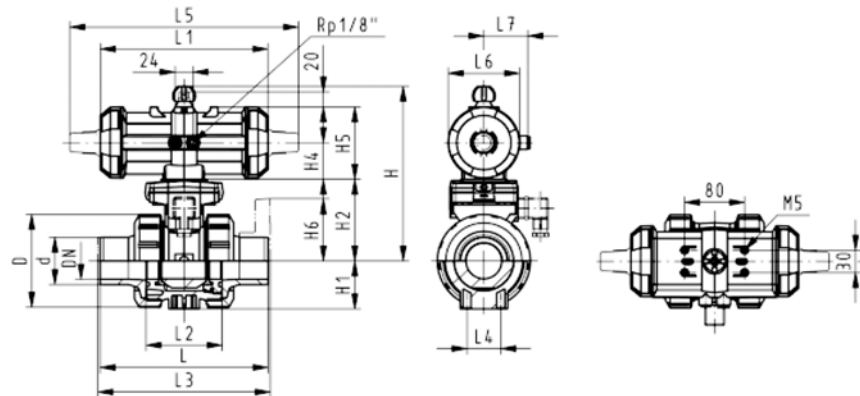
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90° < 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	½	10	185	199 230 343	199 230 353
25	20	¾	10	350	199 230 344	199 230 354
32	25	1	10	700	199 230 345	199 230 355
40	32	1 ¼	10	1000	199 230 346	199 230 356
50	40	1 ½	10	1600	199 230 347	199 230 357
63	50	2	10	3100	199 230 348	199 230 358

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	40	77	48	124	194	56	130	25	261	76	48
25	58	168	30	71	40	77	53	144	194	65	150	25	261	76	48
32	68	168	36	71	40	77	58	154	194	71	160	25	261	76	48
40	84	202	44	84	51	99	70	174	224	85	180	45	305	95	59
50	97	202	51	84	51	99	75	194	224	89	200	45	305	95	59
63	124	225	64	106	51	99	83	224	224	101	230	45	305	95	59



PVC-U metric

Ball valve type 230 PVC-U DA (Double acting)

Without manual override

With backing flanges PP-st metric

Model:

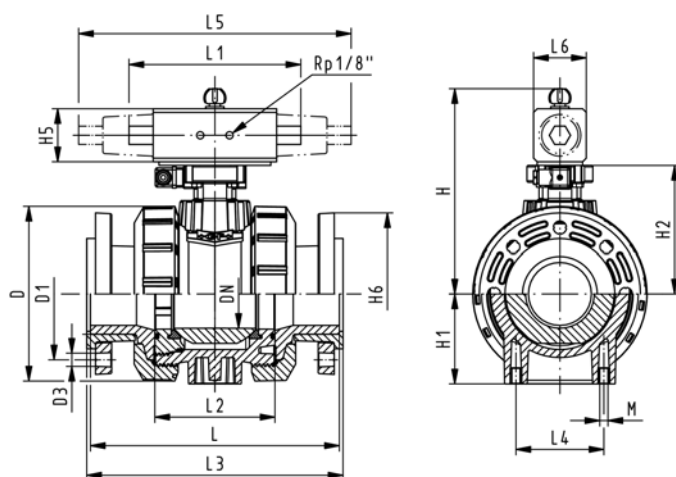
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
75	65	10	5000	199 234 509	199 234 519
90	80	10	7000	199 234 510	199 234 520
110	100	10	11000	199 234 511	199 234 521

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L6 [mm]
75	166	257	85	156	66	93	284	144	136	290	70	60
90	200	274	105	168	70	100	300	152	141	310	70	65
110	238	273	123	175	78	110	340	169	164	350	120	72



PVC-U metric

3-Way ball valve type 285 PVC-U

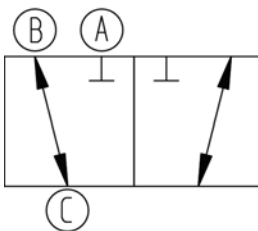
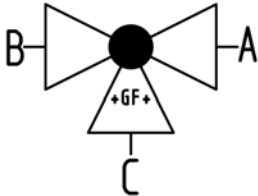
Horizontal/L-port

Without manual override

With solvent cement sockets metric

Model:

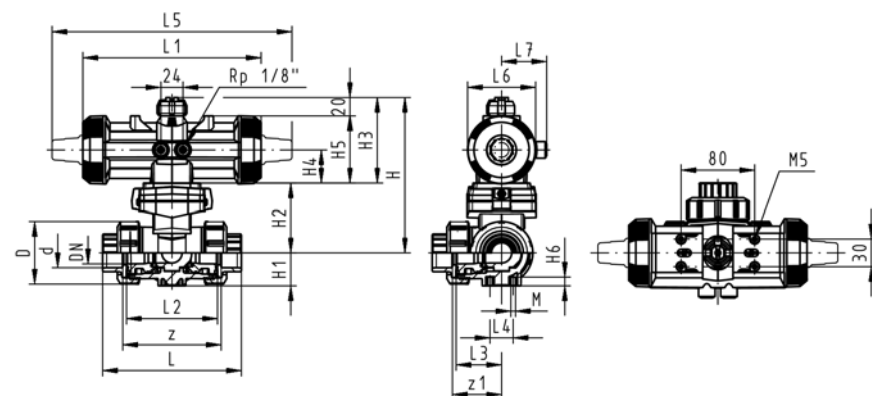
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 285 022	199 285 032
20	15	10	75	199 285 023	199 285 033
25	20	10	150	199 285 024	199 285 034
32	25	10	280	199 285 025	199 285 035
40	32	10	480	199 285 026	199 285 036
50	40	10	620	199 285 027	199 285 037
63	50	10	1230	199 285 028	199 285 038

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	81	40
20	48	6	81	40
25	48	6	94	47
32	48	6	107	54
40	59	8	130	65
50	59	8	143	72
63	59	8	185	92



PVC-U metric

3-Way ball valve type 285 PVC-U

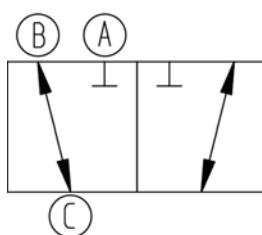
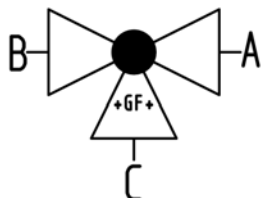
Horizontal/L-port

Without manual override

With solvent cement spigots metric

Model:

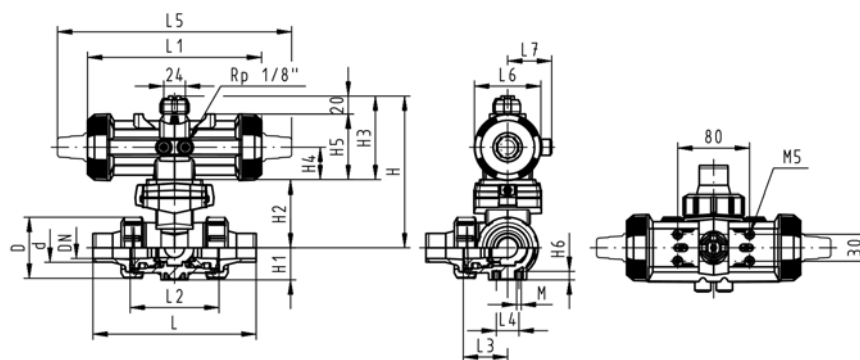
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 285 002	199 285 012
20	15	10	75	199 285 003	199 285 013
25	20	10	150	199 285 004	199 285 014
32	25	10	280	199 285 005	199 285 015
40	32	10	480	199 285 006	199 285 016
50	40	10	620	199 285 007	199 285 017
63	50	10	1230	199 285 008	199 285 018

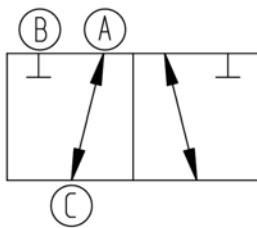
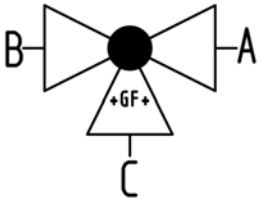
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	131	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	141	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	165	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	182	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	209	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	242	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	302	224	179	89	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PVC-U metric

3-Way ball valve type 285 PVC-U Horizontal/L-port DA (Double acting) Without manual override With solvent cement spigots metric



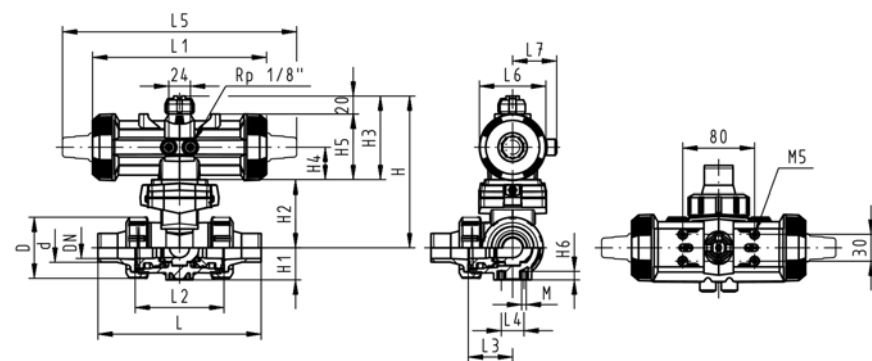
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 285 182	199 285 192
20	15	10	75	199 285 183	199 285 193
25	20	10	150	199 285 184	199 285 194
32	25	10	280	199 285 185	199 285 195
40	32	10	480	199 285 186	199 285 196
50	40	10	620	199 285 187	199 285 197
63	50	10	1230	199 285 188	199 285 198

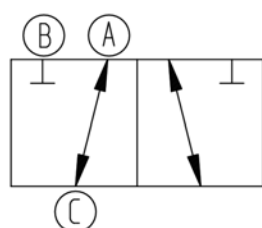
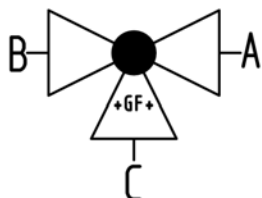
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	131	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	141	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	165	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	182	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	209	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	242	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	302	224	179	89	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PVC-U metric

3-Way ball valve type 285 PVC-U Horizontal/L-port DA (Double acting) Without manual override With solvent cement sockets metric



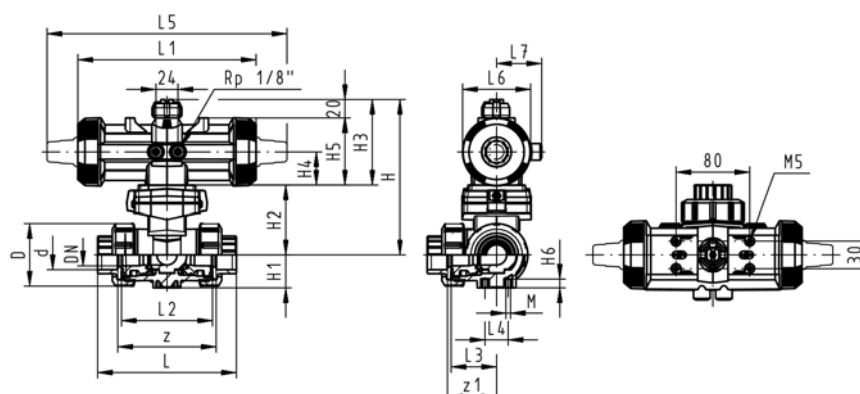
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 285 202	199 285 212
20	15	10	75	199 285 203	199 285 213
25	20	10	150	199 285 204	199 285 214
32	25	10	280	199 285 205	199 285 215
40	32	10	480	199 285 206	199 285 216
50	40	10	620	199 285 207	199 285 217
63	50	10	1230	199 285 208	199 285 218

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	81	40
20	48	6	81	40
25	48	6	94	47
32	48	6	107	54
40	59	8	130	65
50	59	8	143	72
63	59	8	185	92



PVC-U metric

3-Way ball valve type 285 PVC-U

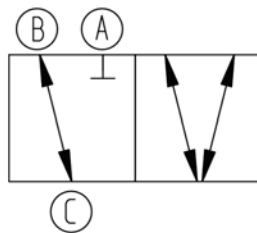
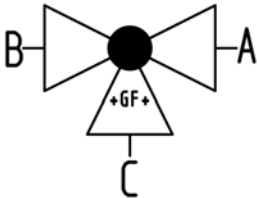
Horizontal/T-port

Without manual override

With solvent cement sockets metric

Model:

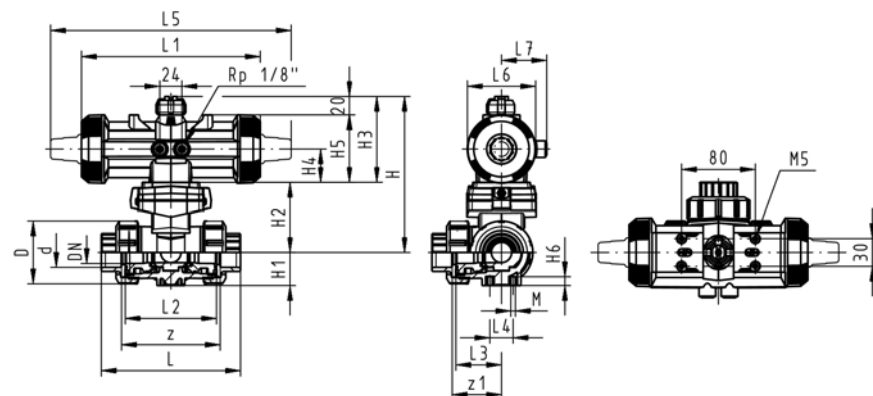
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 285 062	199 285 072
20	15	10	200	199 285 063	199 285 073
25	20	10	470	199 285 064	199 285 074
32	25	10	793	199 285 065	199 285 075
40	32	10	1290	199 285 066	199 285 076
50	40	10	1910	199 285 067	199 285 077
63	50	10	3100	199 285 068	199 285 078

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	81	40
20	48	6	81	40
25	48	6	94	47
32	48	6	107	54
40	59	8	130	65
50	59	8	143	72
63	59	8	185	92



PVC-U metric

3-Way ball valve type 285 PVC-U

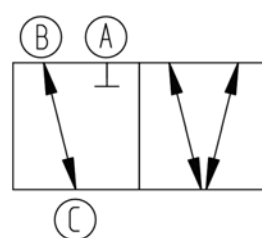
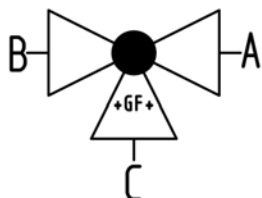
Horizontal/T-port

Without manual override

With solvent cement spigots metric

Model:

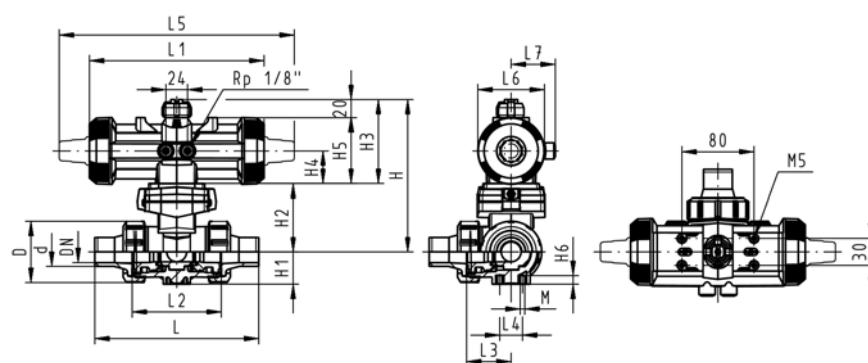
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 285 042	199 285 052
20	15	10	200	199 285 043	199 285 053
25	20	10	470	199 285 044	199 285 054
32	25	10	793	199 285 045	199 285 055
40	32	10	1290	199 285 046	199 285 056
50	40	10	1910	199 285 047	199 285 057
63	50	10	3100	199 285 048	199 285 058

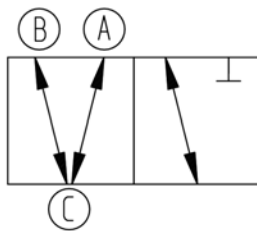
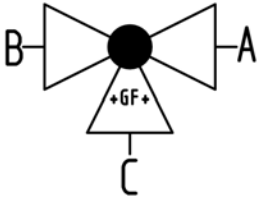
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	131	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	141	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	165	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	182	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	209	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	242	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	302	224	179	89	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PVC-U metric

3-Way ball valve type 285 PVC-U Horizontal/T-port DA (Double acting) Without manual override With solvent cement spigots metric



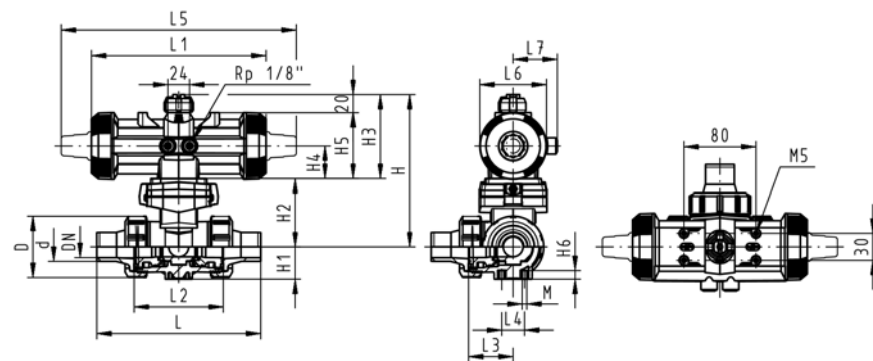
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° < 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 285 222	199 285 232
20	15	10	200	199 285 223	199 285 233
25	20	10	470	199 285 224	199 285 234
32	25	10	793	199 285 225	199 285 235
40	32	10	1290	199 285 226	199 285 236
50	40	10	1910	199 285 227	199 285 237
63	50	10	3100	199 285 228	199 285 238

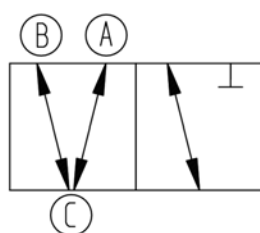
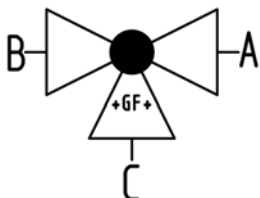
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	131	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	141	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	165	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	182	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	209	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	242	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	302	224	179	89	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PVC-U metric

3-Way ball valve type 285 PVC-U Horizontal/T-port DA (Double acting) Without manual override With solvent cement sockets metric



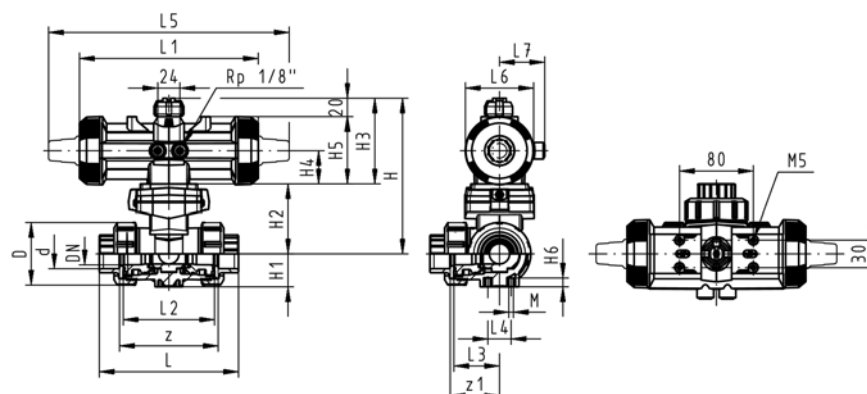
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 285 242	199 285 252
20	15	10	200	199 285 243	199 285 253
25	20	10	470	199 285 244	199 285 254
32	25	10	793	199 285 245	199 285 255
40	32	10	1290	199 285 246	199 285 256
50	40	10	1910	199 285 247	199 285 257
63	50	10	3100	199 285 248	199 285 258

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	81	40
20	48	6	81	40
25	48	6	94	47
32	48	6	107	54
40	59	8	130	65
50	59	8	143	72
63	59	8	185	92



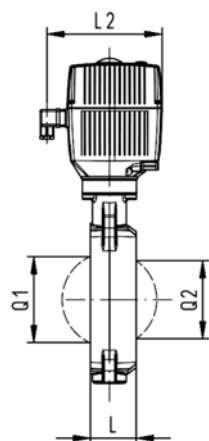
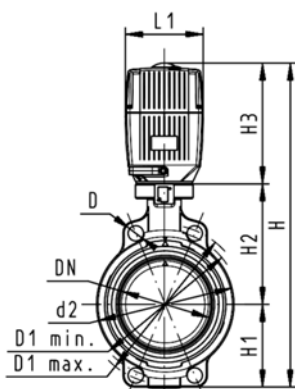
PVC-U metric

Butterfly valves electric

Butterfly valve type 140 PVC-U 100-230V Without manual override

Model:

- 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
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- For DN350-DN400 electric actuator from Valpes is equipped, various options available



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 042	199 140 062
75	65	2 ½	10	2200	199 140 043	199 140 063
90	80	3	10	3000	199 140 044	199 140 064
110	100	4	10	6500	199 140 045	199 140 065
140	125	5	10	11500	199 140 046	199 140 066
160	150	6	10	16600	199 140 047	199 140 067
225	200	8	10	39600	199 140 048	199 140 068
280	250	10	6	55200	199 140 049	199 140 069
315	300	12	4	80000	199 140 050	199 140 070
355	350	14	6	90000	199 140 051	199 140 071
400	400	16	6	115000	199 140 052	199 140 072

d [mm]	Actuator unit type	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]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180	210
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180	256
355	VS-300	29	445.0	477.0	535	936	268	410	258	129	209	275	325
400	VT-600	29	510.0	540.0	593	1084	300	435	349	169	228	468	353

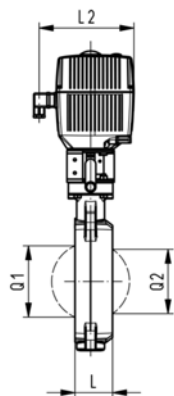
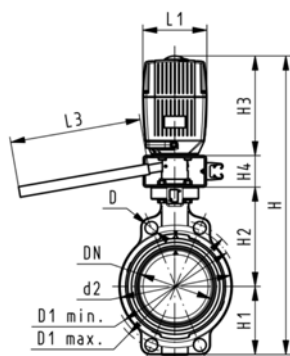
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253
355	305
400	350

PVC-U metric

Butterfly valve type 140 PVC-U 100-230V With manual override

Model:

- 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
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- Overall length according to EN 558, ISO 5752



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 002	199 140 022
75	65	2 ½	10	2200	199 140 003	199 140 023
90	80	3	10	3000	199 140 004	199 140 024
110	100	4	10	6500	199 140 005	199 140 025
140	125	5	10	11500	199 140 006	199 140 026
160	150	6	10	16600	199 140 007	199 140 027
225	200	8	10	39600	199 140 008	199 140 028

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

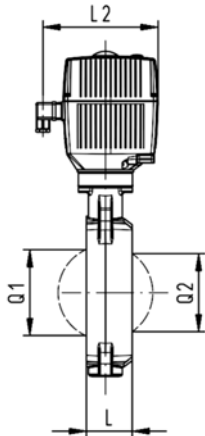
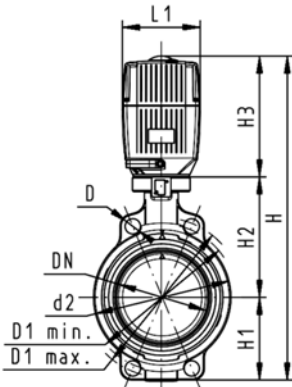
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

PVC-U metric

Butterfly valve type 140 PVC-U 24V Without manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- The dimension DN300 on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 122	199 140 142
75	65	2 ½	10	2200	199 140 123	199 140 143
90	80	3	10	3000	199 140 124	199 140 144
110	100	4	10	6500	199 140 125	199 140 145
140	125	5	10	11500	199 140 126	199 140 146
160	150	6	10	16600	199 140 127	199 140 147
225	200	8	10	39600	199 140 128	199 140 148
280	250	10	6	55200	199 140 129	199 140 149
315	300	12	4	80000	199 140 130	199 140 150

d [mm]	Actuator unit type	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]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180	210
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180	256

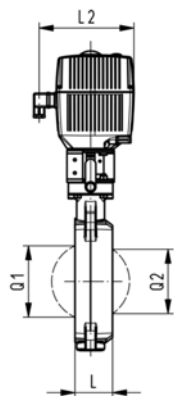
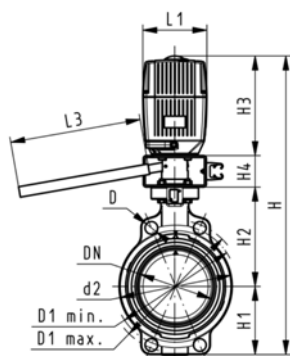
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

PVC-U metric

Butterfly valve type 140 PVC-U 24V With manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 082	199 140 102
75	65	2 ½	10	2200	199 140 083	199 140 103
90	80	3	10	3000	199 140 084	199 140 104
110	100	4	10	6500	199 140 085	199 140 105
140	125	5	10	11500	199 140 086	199 140 106
160	150	6	10	16600	199 140 087	199 140 107
225	200	8	10	39600	199 140 088	199 140 108

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

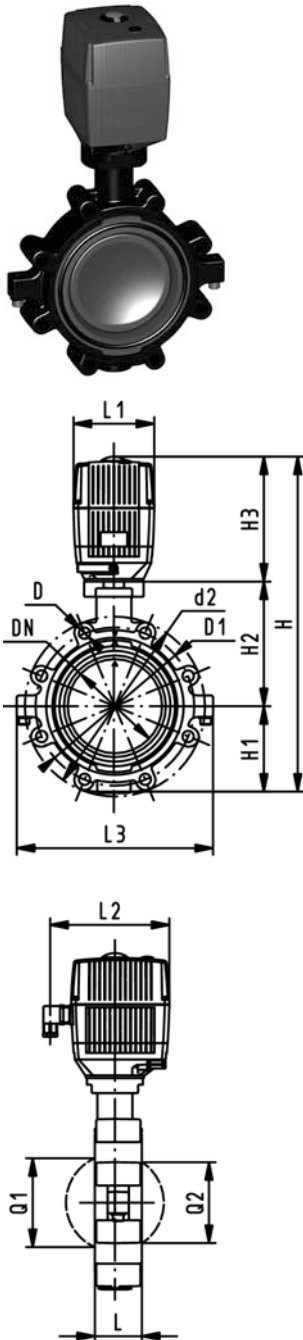
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

PVC-U metric

Lugstyle butterfly valve type 141 PVC-U 100-230V Without manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 141 042	199 141 062
75	65	2 ½	10	2200	199 141 043	199 141 063
90	80	3	10	3000	199 141 044	199 141 064
110	100	4	10	6500	199 141 045	199 141 065
140	125	5	10	11500	199 141 046	199 141 066
160	150	6	10	16600	199 141 047	199 141 067
225	200	8	10	39600	199 141 048	199 141 068

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	EA-31	M16	125	150	399	77	134	188	45	122	180	150	40
75	EA-31	M16	145	170	411	83	140	188	46	122	180	160	54
90	EA-31	M16	160	184	423	89	146	188	49	122	180	205	67
110	EA-31	M16	180	216	459	104	167	188	56	122	180	244	88
140	EA-31	M16	210	246	486	117	181	188	64	122	180	272	113
160	EA-31	M20	240	273	507	130	189	188	72	122	180	297	139
225	EA-42	M20	295	334	576	158	210	208	73	122	180	360	178

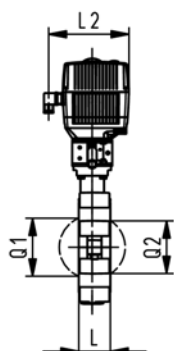
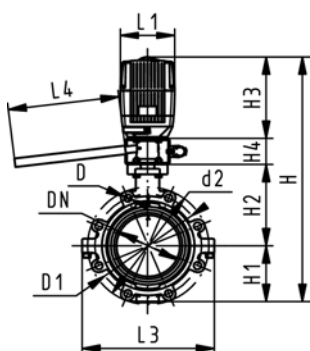
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

PVC-U metric

Lugstyle butterfly valve type 141 PVC-U 100-230V With manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 141 002	199 141 022
75	65	2 ½	10	2200	199 141 003	199 141 023
90	80	3	10	3000	199 141 004	199 141 024
110	100	4	10	6500	199 141 005	199 141 025
140	125	5	10	11500	199 141 006	199 141 026
160	150	6	10	16600	199 141 007	199 141 027
225	200	8	10	39600	199 141 008	199 141 028

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
63	EA-31	M16	125	150	459	77	134	188	60	45	122	180	150
75	EA-31	M16	145	170	471	83	140	188	60	46	122	180	160
90	EA-31	M16	160	184	483	89	146	188	60	49	122	180	205
110	EA-31	M16	180	216	519	104	167	188	60	56	122	180	244
140	EA-31	M16	210	246	546	117	181	188	60	64	122	180	272
160	EA-31	M20	240	273	567	130	189	188	60	72	122	180	297
225	EA-42	M20	295	334	636	158	210	208	60	73	122	180	360

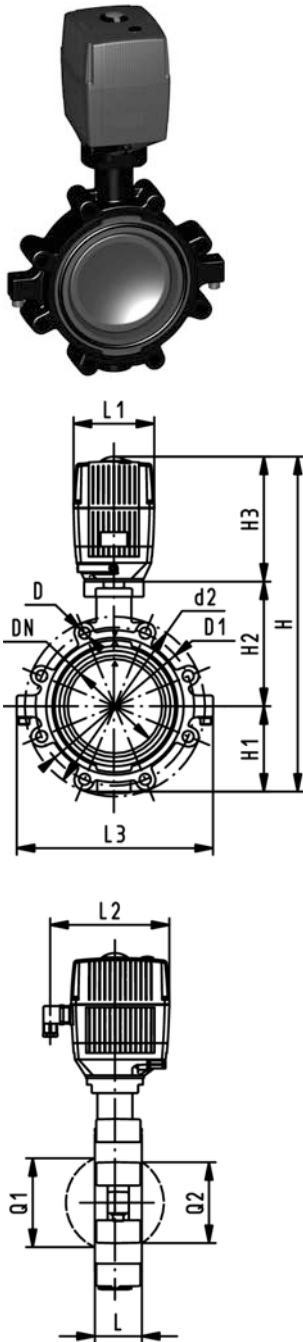
d [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]
63	200	40	
75	200	54	35
90	200	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

PVC-U metric

Lugstyle butterfly valve type 141 PVC-U 24V Without manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
63	50	2	10	1470	199 141 122	199 141 142	
75	65	2 ½	10	2200	199 141 123	199 141 143	
90	80	3	10	3000	199 141 124	199 141 144	
110	100	4	10	6500	199 141 125	199 141 145	
140	125	5	10	11500	199 141 126	199 141 146	
160	150	6	10	16600	199 141 127	199 141 147	
225	200	8	10	39600	199 141 128	199 141 148	

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	EA-31	M16	125	150	399	77	134	188	45	122	180	150	40
75	EA-31	M16	145	170	411	83	140	188	46	122	180	160	54
90	EA-31	M16	160	184	423	89	146	188	49	122	180	205	67
110	EA-31	M16	180	216	459	104	167	188	56	122	180	244	88
140	EA-31	M16	210	246	486	117	181	188	64	122	180	272	113
160	EA-31	M20	240	273	507	130	189	188	72	122	180	297	139
225	EA-42	M20	295	334	576	158	210	208	73	122	180	360	178

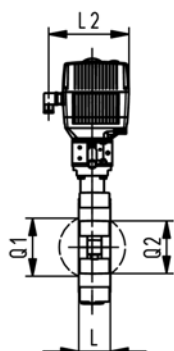
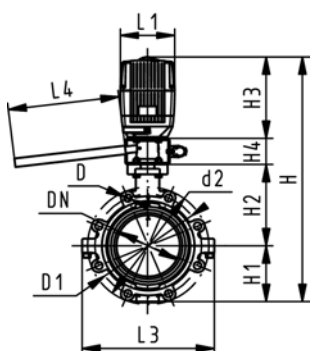
d [mm]	Q2 [mm]	
63		
75	35	
90	50	
110	74	
140	97	
160	123	
225	169	

PVC-U metric

Lugstyle butterfly valve type 141 PVC-U 24V With manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 141 082	199 141 102
75	65	2 ½	10	2200	199 141 083	199 141 103
90	80	3	10	3000	199 141 084	199 141 104
110	100	4	10	6500	199 141 085	199 141 105
140	125	5	10	11500	199 141 086	199 141 106
160	150	6	10	16600	199 141 087	199 141 107
225	200	8	10	39600	199 141 088	199 141 108

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
63	EA-31	M16	125	150	459	77	134	188	60	45	122	180	150
75	EA-31	M16	145	170	471	83	140	188	60	46	122	180	160
90	EA-31	M16	160	184	483	89	146	188	60	49	122	180	205
110	EA-31	M16	180	216	519	104	167	188	60	56	122	180	244
140	EA-31	M16	210	246	546	117	181	188	60	64	122	180	272
160	EA-31	M20	240	273	567	130	189	188	60	72	122	180	297
225	EA-42	M20	295	334	636	158	210	208	60	73	122	180	360

d [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]
63	200	40	
75	200	54	35
90	200	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

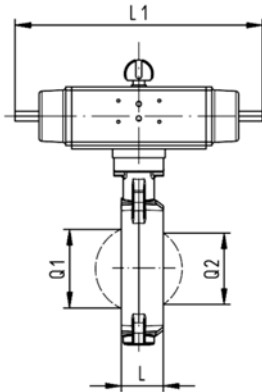
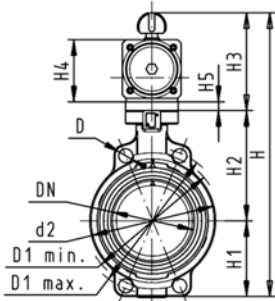
PVC-U metric

Butterfly valves pneumatic

Butterfly valve type 240 PVC-U

FC (Fail safe to close)

Without manual override



Model:

- 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
- Overall length according to EN 558, ISO 5752
- Control range 90°<

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 002	199 240 022
75	65	2 ½	10	2200	199 240 003	199 240 023
90	80	3	10	3000	199 240 004	199 240 024
110	100	4	10	6500	199 240 005	199 240 025
140	125	5	10	11500	199 240 006	199 240 026
160	150	6	10	16600	199 240 007	199 240 027
225	200	8	10	39600	199 240 008	199 240 028
280	250	10	10	55200	199 240 009	199 240 029
315	300	12	10	80000	199 240 010	199 240 030

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FC	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FC	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FC	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FC	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FC	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FC	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FC	23	290.0	295.0	267	529	158	210	161	118		73	452
280	PA-65 FC	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FC	25	400.0	432.0	379	866	228	285	196	157		113	663

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169
280	137	210	207
315	145	256	253

PVC-U metric

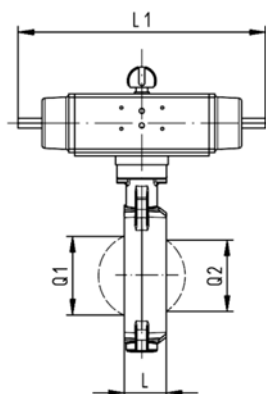
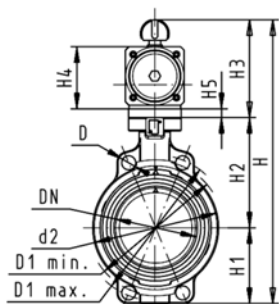
Butterfly valve type 240 PVC-U

FO (Fail safe to open)

Without manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Control range 90°<



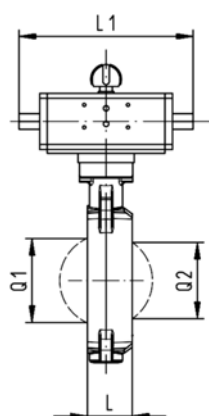
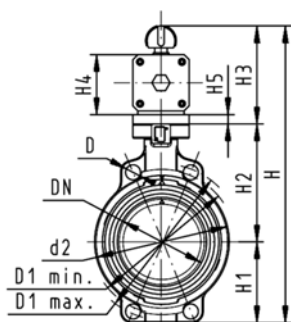
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 042	199 240 062
75	65	2 ½	10	2200	199 240 043	199 240 063
90	80	3	10	3000	199 240 044	199 240 064
110	100	4	10	6500	199 240 045	199 240 065
140	125	5	10	11500	199 240 046	199 240 066
160	150	6	10	16600	199 240 047	199 240 067
225	200	8	10	39600	199 240 048	199 240 068
280	250	10	10	55200	199 240 049	199 240 069
315	300	12	10	80000	199 240 050	199 240 070

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FO	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FO	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FO	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FO	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FO	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FO	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FO	23	290.0	295.0	267	529	158	210	161	118		73	452
280	PA-70 FO	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FO	25	400.0	432.0	379	866	228	285	196	157		113	663

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169
280	137	210	207
315	145	256	253

PVC-U metric

Butterfly valve type 240 PVC-U DA (Double acting) Without manual override



Model:

- 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
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Control range 90°<
- For DN350-DN400 pneumatic actuator supplied by Revac

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 082	199 240 102
75	65	2 ½	10	2200	199 240 083	199 240 103
90	80	3	10	3000	199 240 084	199 240 104
110	100	4	10	6500	199 240 085	199 240 105
140	125	5	10	11500	199 240 086	199 240 106
160	150	6	10	16600	199 240 087	199 240 107
225	200	8	10	39600	199 240 088	199 240 108
280	250	10	10	55200	199 240 089	199 240 109
315	300	12	10	80000	199 240 090	199 240 110
355	350	14	6	90000	199 240 091	199 240 111
400	400	16	6	115000	199 240 092	199 240 112

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-35 DA	19	120.0	125.0	104	317	77	134	107	60	15	45	177
75	PA-35 DA	19	139.7	145.0	115	330	83	140	107	60	15	46	177
90	PA-40 DA	19	150.0	160.0	131	348	89	146	113	66	15	49	190
110	PA-45 DA	19	175.0	190.5	161	372	104	167	102	71		56	235
140	PA-45 DA	23	210.0	215.9	187	408	117	181	111	78		64	235
160	PA-55 DA	24	241.3	241.3	215	448	130	189	129	86		72	279
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279
280	PA-65 DA	25	353.0	362.0	329	748	205	264	161	118		113	350
315	PA-70 DA	25	400.0	432.0	379	816	228	285	173	130		113	381
355	AP 5	29	445.0	577.0	535	863	268	410	185	155		129	360
400	AP 5.5	29	510.0	540.0	593	941	300	435	206	176		169	380

d [mm]	Q1 [mm]	Q2 [mm]
63	40	
75	54	35
90	67	50
110	88	74
140	113	97
160	139	123
225	178	169
280	210	207
315	256	253
355	325	305
400	353	350

PVC-U metric

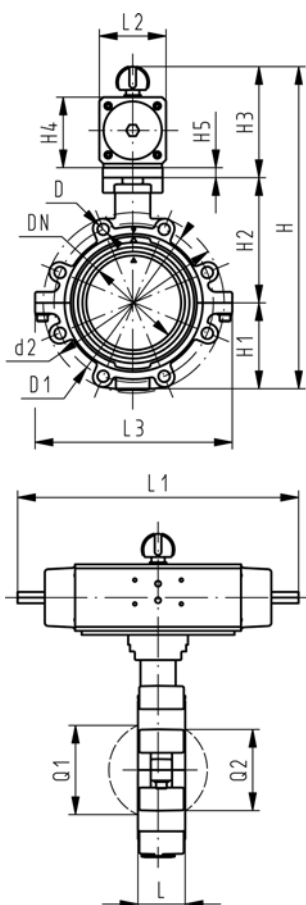
Lugstyle butterfly valve type 241 PVC-U

FC (Fail safe to close)

Without manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<



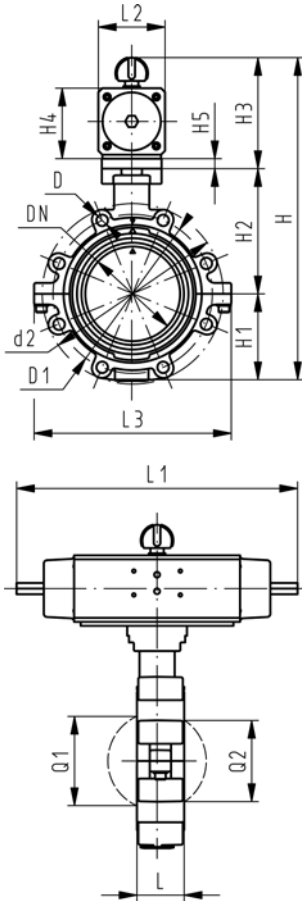
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 241 002	199 241 022
75	65	2 ½	10	2200	199 241 003	199 241 023
90	80	3	10	3000	199 241 004	199 241 024
110	100	4	10	6500	199 241 005	199 241 025
140	125	5	10	11500	199 241 006	199 241 026
160	150	6	10	16600	199 241 007	199 241 027
225	200	8	10	39600	199 241 008	199 241 028

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-30 FC	M16	125	150	328	77	134	117	70	15	45	276	65
75	PA-30 FC	M16	145	170	340	83	140	117	70	15	46	276	65
90	PA-35 FC	M16	160	184	361	89	146	126	78	15	49	326	72
110	PA-40 FC	M16	180	216	400	104	167	129	86		56	370	80
140	PA-45 FC	M16	210	246	437	117	181	139	96		64	411	90
160	PA-50 FC	M20	240	273	468	130	189	149	106		72	423	100
225	PA-55 FC	M20	295	334	529	158	210	161	118		73	452	112

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	40	
75	160	54	35
90	205	67	50
110	244	88	74
140	272	113	97
160	297	139	123
225	360	178	169

PVC-U metric

Lugstyle butterfly valve type 241 PVC-U FO (Fail safe to open) Without manual override



Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 241 042	199 241 062
75	65	2 ½	10	2200	199 241 043	199 241 063
90	80	3	10	3000	199 241 044	199 241 064
110	100	4	10	6500	199 241 045	199 241 065
140	125	5	10	11500	199 241 046	199 241 066
160	150	6	10	16600	199 241 047	199 241 067
225	200	8	10	39600	199 241 048	199 241 068

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-30 FO	M16	125	150	328	77	134	117	70	15	45	276	65
75	PA-30 FO	M16	145	170	340	83	140	117	70	15	46	276	65
90	PA-35 FO	M16	160	184	361	89	146	126	78	15	49	326	72
110	PA-40 FO	M16	180	216	400	104	167	129	86		56	370	80
140	PA-45 FO	M16	210	246	437	117	181	139	96		64	411	90
160	PA-50 FO	M20	240	273	468	130	189	149	106		72	423	100
225	PA-55 FO	M20	295	334	529	158	210	161	118		73	452	112

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	40	
75	160	54	35
90	205	67	50
110	244	88	74
140	272	113	97
160	297	139	123
225	360	178	169

PVC-U metric

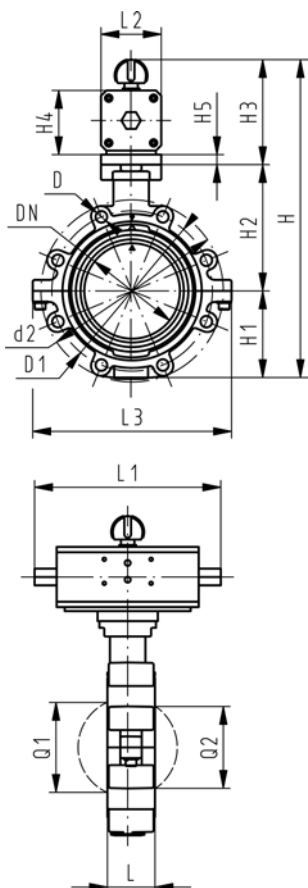
Lugstyle butterfly valve type 241 PVC-U

DA (Double acting)

Without manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<



d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 241 082	199 241 102
75	65	2 ½	10	2200	199 241 083	199 241 103
90	80	3	10	3000	199 241 084	199 241 104
110	100	4	10	6500	199 241 085	199 241 105
140	125	5	10	11500	199 241 086	199 241 106
160	150	6	10	16600	199 241 087	199 241 107
225	200	8	10	39600	199 241 088	199 241 108

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-35 DA	M16	125	150	318	77	134	107	60	15	45	177	55
75	PA-35 DA	M16	145	170	330	83	140	107	60	15	46	177	55
90	PA-40 DA	M16	160	184	348	89	146	113	66	15	49	190	60
110	PA-45 DA	M16	180	216	373	104	167	102	71		56	235	65
140	PA-45 DA	M16	210	246	409	117	181	111	78		64	235	72
160	PA-55 DA	M20	240	273	448	130	189	129	86		72	279	80
225	PA-55 DA	M20	295	334	507	158	210	139	96		73	279	90

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	40	
75	160	54	35
90	205	67	50
110	244	88	74
140	272	113	97
160	297	139	123
225	360	178	169

PVC-U metric

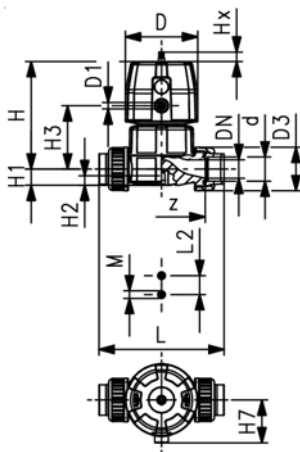
Diaphragm valves pneumatic

New generation

Diaphragm valve DIASTAR Six PVC-U

FC (Fail safe to close)

Unions with solvent cement sockets metric



Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

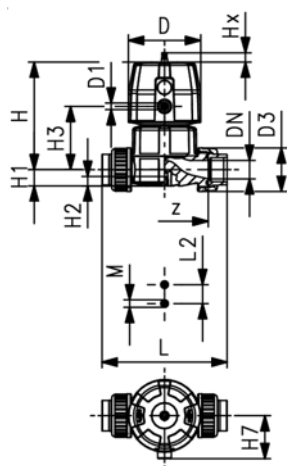
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
16	10	6	125	161 614 011	-	
20	15	6	125	161 614 012	800 047 327	
25	20	6	271	161 614 013	800 047 328	
32	25	6	481	161 614 014	800 047 329	
40	32	6	759	161 614 015	800 047 330	
50	40	6	960	161 614 016	800 047 331	
63	50	6	1181	161 614 017	800 047 332	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]	
16	68	1/8	124	25	101	14	12	60	43	M6	96	7	
20	68	1/8	128	25	101	14	12	60	43	M6	96	7	
25	96	1/8	152	25	132	18	12	73	57	M6	114	10	
32	96	1/8	166	25	143	22	12	84	57	M6	122	13	
40	120	1/8	192	45	173	26	15	99	69	M8	140	14	
50	120	1/8	222	45	193	32	15	119	69	M8	160	16	
63	120	1/8	266	45	205	39	15	132	69	M8	190	16	

PVC-U metric

Diaphragm valve DIASTAR Six PVC-U FC (Fail safe to close) Unions with threaded sockets Rp



Model:

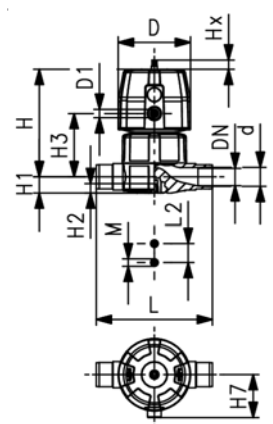
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
1/2	15	6	125	161 614 412
3/4	20	6	271	161 614 413
1	25	6	481	161 614 414
1 1/4	32	6	759	161 614 415
1 1/2	40	6	960	161 614 416
2	50	6	1181	161 614 417

Rp [inch]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
1/2	68	1/8	128	25	101	14	12	60	43	M6	96	7
3/4	96	1/8	152	25	132	18	12	73	57	M6	114	10
1	96	1/8	166	25	143	22	12	84	57	M6	122	13
1 1/4	120	1/8	192	45	173	26	15	99	69	M8	140	14
1 1/2	120	1/8	222	45	193	32	15	119	69	M8	160	16
2	120	1/8	266	45	205	39	15	132	69	M8	190	16



Diaphragm valve DIASTAR Six PVC-U FC (Fail safe to close) With solvent cement spigots metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

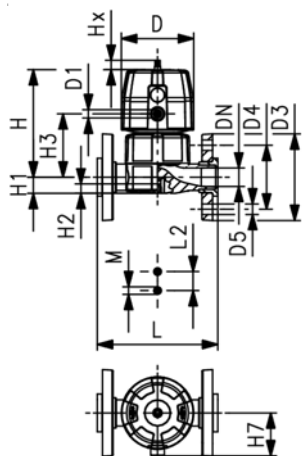
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
20	15	6	125	161 615 012
25	20	6	271	161 615 013
32	25	6	481	161 615 014
40	32	6	759	161 615 015
50	40	6	960	161 615 016
63	50	6	1181	161 615 017

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	124	25	101	14	12	60	43	M6	7
25	96	1/8	144	25	132	18	12	73	57	M6	10
32	96	1/8	154	25	143	22	12	84	57	M6	13
40	120	1/8	174	45	173	26	15	99	69	M8	14
50	120	1/8	194	45	193	32	15	119	69	M8	16
63	120	1/8	224	45	205	39	15	132	69	M8	16

PVC-U metric

Diaphragm valve DIASTAR Six PVC-U FC (Fail safe to close) With backing flanges PVC-U metric/BS



Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

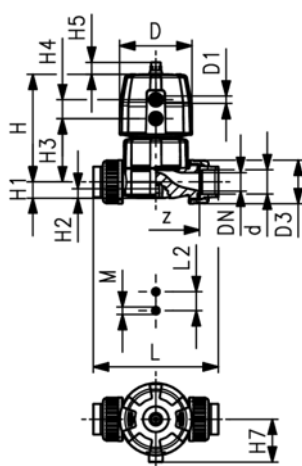
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code										
20	15	6	125	161 617 012										
25	20	6	271	161 617 013										
32	25	6	481	161 617 014										
40	32	6	759	161 617 015										
50	40	6	960	161 617 016										
63	50	6	1181	161 617 017										

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	95	65	14	130	25	101	14	12	60	43	M6	7
25	96	1/8	105	75	14	150	25	132	18	12	73	57	M6	10
32	96	1/8	115	85	14	160	25	143	22	12	84	57	M6	13
40	120	1/8	140	100	18	180	45	173	26	15	99	69	M8	14
50	120	1/8	150	110	18	200	45	193	32	15	119	69	M8	16
63	120	1/8	165	125	18	230	45	205	39	15	132	69	M8	16

Diaphragm valve DIASTAR Ten PVC-U FC (Fail safe to close) Unions with solvent cement sockets metric



Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

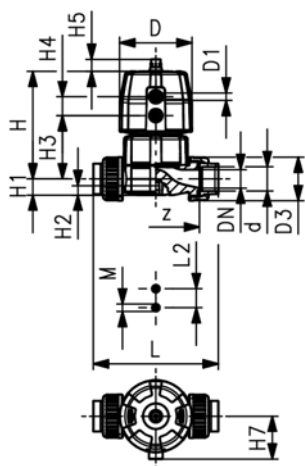
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM

d [mm]	DN [mm]	PN*	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	PTFE/FPM Code	FPM Code
16	10	10	125	161 624 011	161 624 031	-	800 047 333
20	15	10	125	161 624 012	161 624 032	800 047 348	800 047 334
25	20	10	271	161 624 013	161 624 033	800 047 349	800 047 294
32	25	10	481	161 624 014	161 624 034	800 047 350	800 047 335
40	32	10	759	161 624 015	161 624 035	800 047 351	800 047 336
50	40	10	1263	161 624 016	161 624 036	800 047 352	800 047 337
63	50	10/6*	1728	161 624 017	161 624 037	800 047 353	800 047 338

table continued next page

PVC-U metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
16	68	1/8	124	25	101	14	12	60	24	16	43	M6	96	7
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	96	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	114	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	122	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	140	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	160	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U FC (Fail safe to close) With solvent cement spigots metric

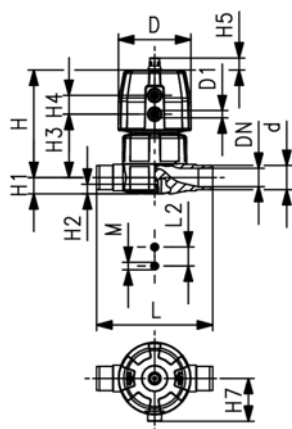
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM

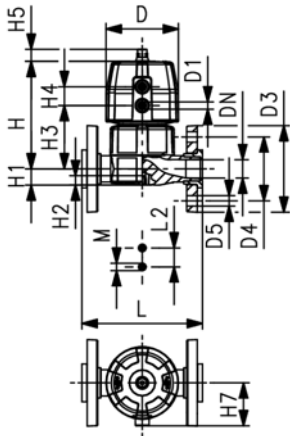


d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	161 625 012	161 625 032
25	20	10	271	161 625 013	161 625 033
32	25	10	481	161 625 014	161 625 034
40	32	10	759	161 625 015	161 625 035
50	40	10	1263	161 625 016	161 625 036
63	50	10/6*	1728	161 625 017	161 625 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23

PVC-U metric

Diaphragm valve DIASTAR Ten PVC-U FC (Fail safe to close) With backing flanges PVC-U metric/BS



Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM

d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	161 627 012	161 627 032
25	20	10	271	161 627 013	161 627 033
32	25	10	481	161 627 014	161 627 034
40	32	10	759	161 627 015	161 627 035
50	40	10	1263	161 627 016	161 627 036
63	50	10/6*	1728	161 627 017	161 627 037

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	43	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	57	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	69	M8
50	150	1/4	150	110	18	200	45	193	32	15	119	36	26	88	M8
63	150	1/4	165	125	18	230	45	205	39	15	132	36	26	88	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

PVC-U metric

Diaphragm valve DIASTAR Ten PVC-U

FO (Fail safe to open)

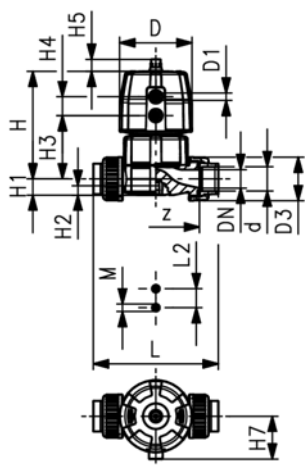
Unions with solvent cement sockets metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- PN16 available as a configuration

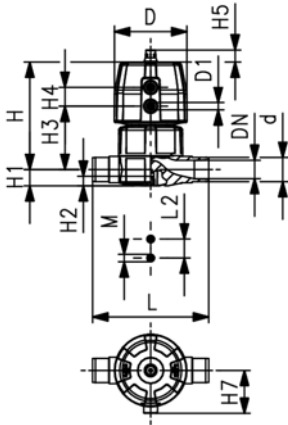


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
16	10	10	125	161 644 011	161 644 031
20	15	10	125	161 644 012	161 644 032
25	20	10	271	161 644 013	161 644 033
32	25	10	481	161 644 014	161 644 034
40	32	10	759	161 644 015	161 644 035
50	40	10	1263	161 644 016	161 644 036
63	50	10	1728	161 644 017	161 644 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
16	68	1/8	124	25	101	14	12	60	24	16	43	M6	96	7
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	96	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	114	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	122	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	140	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	160	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	190	23

PVC-U metric

Diaphragm valve DIASTAR Ten PVC-U FO (Fail safe to open) With solvent cement spigots metric



Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

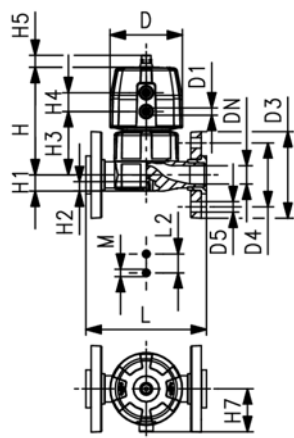
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- PN16 available as a configuration

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code									
20	15	10	125	161 645 012	161 645 032									
25	20	10	271	161 645 013	161 645 033									
32	25	10	481	161 645 014	161 645 034									
40	32	10	759	161 645 015	161 645 035									
50	40	10	1263	161 645 016	161 645 036									
63	50	10	1728	161 645 017	161 645 037									

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]		
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7		
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10		
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13		
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15		
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19		
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23		

PVC-U metric

Diaphragm valve DIASTAR Ten PVC-U FO (Fail safe to open) With backing flanges PVC-U metric/BS



Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10/10*	125	161 647 012	161 647 032
25	20	10/10*	271	161 647 013	161 647 033
32	25	10/10*	481	161 647 014	161 647 034
40	32	10/10*	759	161 647 015	161 647 035
50	40	10/10*	1263	161 647 016	161 647 036
63	50	10/10*	1728	161 647 017	161 647 037

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	43	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	57	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	69	M8
50	150	1/4	150	110	18	200	45	214	32	15	119	36	26	88	M8
63	150	1/4	165	125	18	230	45	226	39	15	132	36	26	88	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

PVC-U metric

Diaphragm valve DIASTAR Ten PVC-U DA (Double acting)

Unions with solvent cement sockets metric

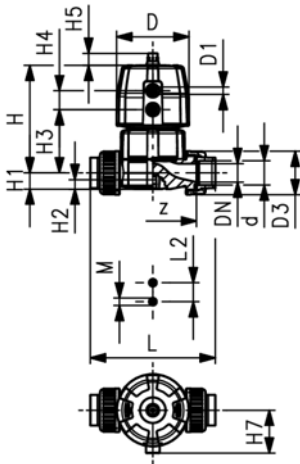


Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- PN16 available as a configuration

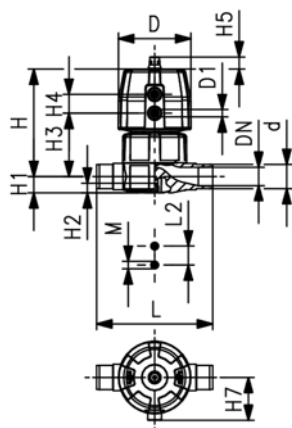


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
16	10	10	125	161 654 011	161 654 031
20	15	10	125	161 654 012	161 654 032
25	20	10	271	161 654 013	161 654 033
32	25	10	481	161 654 014	161 654 034
40	32	10	759	161 654 015	161 654 035
50	40	10	1263	161 654 016	161 654 036
63	50	10	1728	161 654 017	161 654 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
16	68	1/8	124	25	101	14	12	60	24	16	43	M6	96	7
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	96	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	114	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	122	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	140	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	160	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	190	23

PVC-U metric

Diaphragm valve DIASTAR Ten PVC-U DA (Double acting) With solvent cement spigots metric



Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- PN16 available as a configuration

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	161 655 012	161 655 032
25	20	10	271	161 655 013	161 655 033
32	25	10	481	161 655 014	161 655 034
40	32	10	759	161 655 015	161 655 035
50	40	10	1263	161 655 016	161 655 036
63	50	10	1728	161 655 017	161 655 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23

PVC-U metric

Diaphragm valve DIASTAR Ten PVC-U DA (Double acting) With backing flanges PVC-U metric/BS

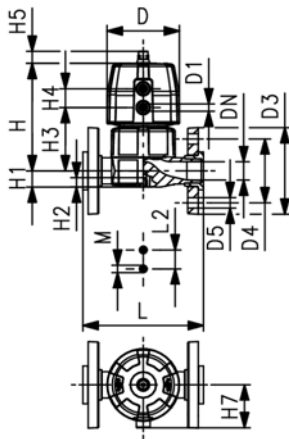


Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	161 657 012	161 657 032
25	20	10	271	161 657 013	161 657 033
32	25	10	481	161 657 014	161 657 034
40	32	10	759	161 657 015	161 657 035
50	40	10	1263	161 657 016	161 657 036
63	50	10	1728	161 657 017	161 657 037

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	43	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	57	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	69	M8
50	150	1/4	150	110	18	200	45	214	32	15	119	36	26	88	M8
63	150	1/4	165	125	18	230	45	226	39	15	132	36	26	88	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

PVC-U metric

Diaphragm valve DIASTAR Sixteen PVC-U

FC (Fail safe to close)

Unions with solvent cement sockets metric



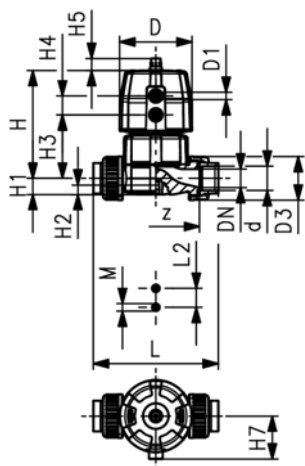
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE/EPDM

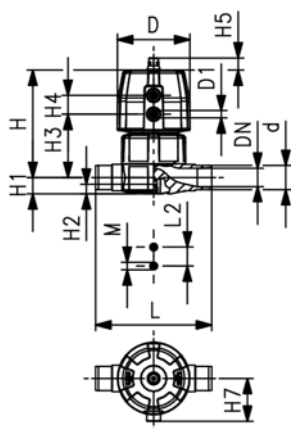


d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
16	10	16/16*	125	161 634 011	161 634 031
20	15	16/16*	125	161 634 012	161 634 032
25	20	16/16*	271	161 634 013	161 634 033
32	25	16/16*	481	161 634 014	161 634 034
40	32	16/16*	759	161 634 015	161 634 035
50	40	16/16*	1263	161 634 016	161 634 036
63	50	16/10*	1728	161 634 017	161 634 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
16	96	1/8	124	25	127	14	12	68	25	16	57	M6	96	7
20	96	1/8	128	25	127	14	12	68	25	16	57	M6	96	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	114	10
32	120	1/8	166	25	167	22	12	93	26	26	69	M6	122	13
40	150	1/4	192	45	196	26	15	101	36	26	88	M8	140	15
50	180	1/4	222	45	239	32	15	124	37	26	103	M8	160	19
63	180	1/4	266	45	251	39	15	137	37	26	103	M8	190	23

PVC-U metric

Diaphragm valve DIASTAR Sixteen PVC-U FC (Fail safe to close) With solvent cement spigots metric



Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

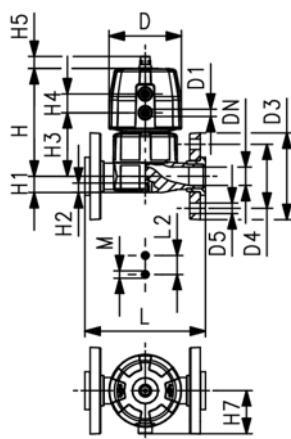
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE/EPDM

d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	16/16*	125	161 635 012	161 635 032
25	20	16/16*	271	161 635 013	161 635 033
32	25	16/16*	481	161 635 014	161 635 034
40	32	16/16*	759	161 635 015	161 635 035
50	40	16/16*	1263	161 635 016	161 635 036
63	50	16/10*	1728	161 635 017	161 635 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	96	1/8	124	25	127	14	12	68	25	16	57	M6	7
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10
32	120	1/8	154	25	167	22	12	93	26	26	69	M6	13
40	150	1/4	174	45	196	26	15	101	36	26	88	M8	15
50	180	1/4	194	45	239	32	15	124	37	26	103	M8	19
63	180	1/4	224	45	251	39	15	137	37	26	103	M8	23

Diaphragm valve DIASTAR Sixteen PVC-U FC (Fail safe to close) With backing flanges PVC-U metric/BS



Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

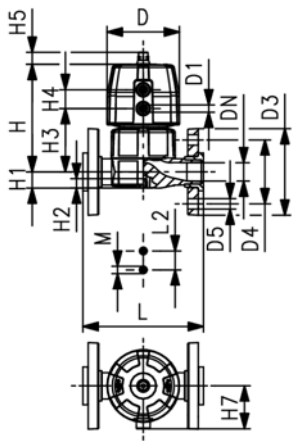
Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	161 637 012	161 637 032
25	20	10	271	161 637 013	161 637 033
32	25	10	481	161 637 014	161 637 034
40	32	10	759	161 637 015	161 637 035
50	40	10	1263	161 637 016	161 637 036
63	50	10	1728	161 637 017	161 637 037

table continued next page

PVC-U metric



d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	96	1/8	95	65	14	130	25	127	14	12	68	25	16	57	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	120	1/8	115	85	14	160	25	167	22	12	93	26	26	69	M6
40	150	1/4	140	100	18	180	45	196	26	15	101	36	26	88	M8
50	180	1/4	150	110	18	200	45	239	32	15	124	37	26	103	M8
63	180	1/4	165	125	18	230	45	251	39	15	137	37	26	103	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

PVC-U metric

Diaphragm valves pneumatic

Diaphragm valve type DIASTAR PVC-U Series 025 FC (Fail safe to close) With fixed flanges PVC-U metric



Model:

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

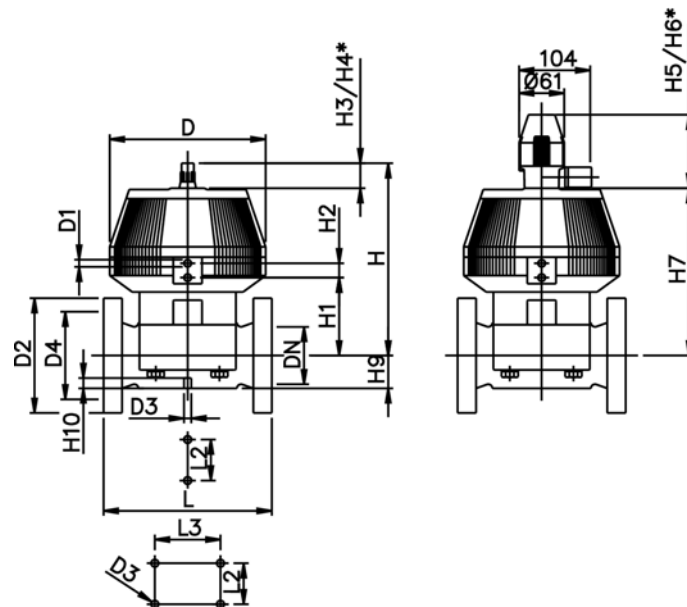
* with backing flanges PVC-U metric

** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
* 75	65	2 ½	10	992	199 025 127	199 025 157
** 90	80	3	10	1700	199 025 128	199 025 158
110	100	4	6	2700	199 025 129	199 025 159
** 160	150	6	6	6033	199 025 130	-

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	¼	185	8	145	290	70		344	148	24	46	100	129
** 90	280	¼	200	12	160	310	120		348	150	24	46	100	129
110	335	¼	225	12	180	350	120		395	176	24	46	100	129
** 160	335	¼	285	12	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	195	298	46	15
** 90	195	302	57	15
110	195	349	69	20
** 160	195	409	108	20



PVC-U metric

Diaphragm valve type DIASTAR PVC-U Series 025 FO (Fail safe to open) With fixed flanges PVC-U metric



Model:

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

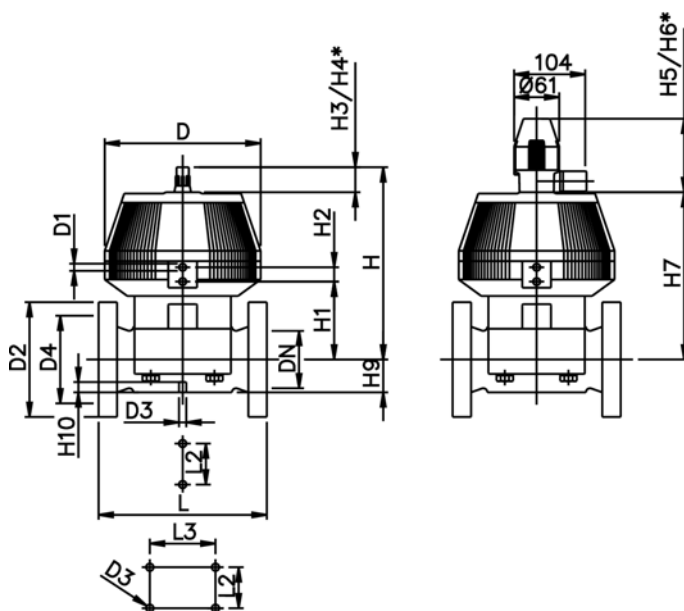
* with backing flanges PVC-U metric

** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
* 75	65	2 ½	10	992	199 025 137	199 025 167
** 90	80	3	10	1700	199 025 138	199 025 168
110	100	4	6	2700	199 025 139	199 025 169
** 160	150	6	6	6033	199 025 140	199 025 170

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	¼	185	8	145	290	70		344	148	24	46	100	129
** 90	280	¼	200	12	160	310	120		348	150	24	46	100	129
110	335	¼	225	12	180	350	120		395	176	24	46	100	129
** 160	335	¼	285	12	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	195	298	46	15
** 90	195	302	57	15
110	195	349	69	20
** 160	195	409	108	20



PVC-U metric

Diaphragm valve type DIASTAR PVC-U Series 025 DA (Double acting) With fixed flanges PVC-U metric



Model:

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

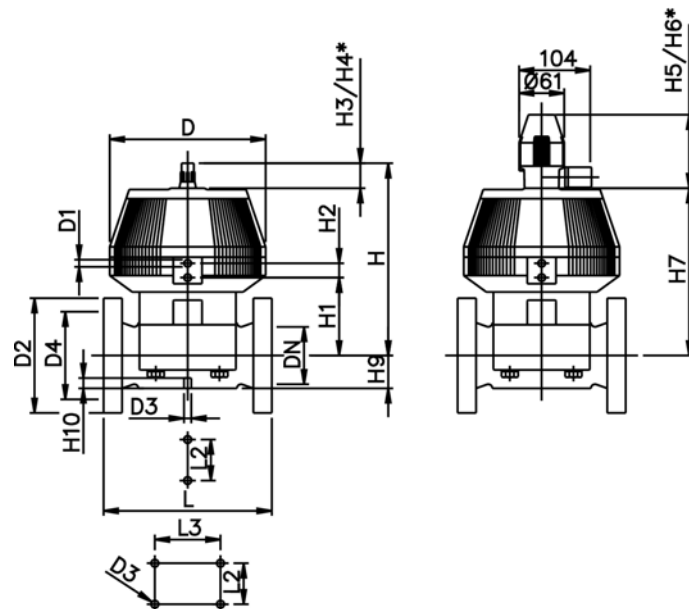
* with backing flanges PVC-U metric

** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
* 75	65	2 ½	10	992	199 025 147	199 025 177
** 90	80	3	10	1700	199 025 148	199 025 178
110	100	4	6	2700	199 025 149	199 025 179
** 160	150	6	6	6033	199 025 150	199 025 180

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	¼	185	8	145	290	70		344	148	24	46	100	129
** 90	280	¼	200	12	160	310	120		348	150	24	46	100	129
110	335	¼	225	12	180	350	120		395	176	24	46	100	129
** 160	335	¼	285	12	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	195	298	46	15
** 90	195	302	57	15
110	195	349	69	20
** 160	195	409	108	20



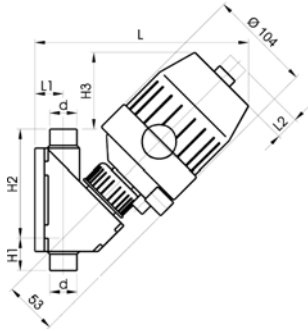
PVC-U metric

Angle seat valves pneumatic

Angle seat valve type 211 PVC-U

FC (Fail safe to close)

With solvent cement spigots metric

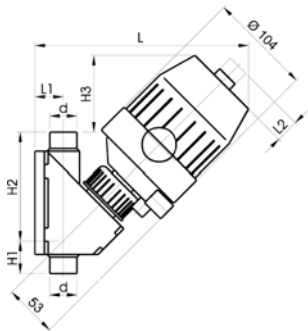


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	L [mm]	L1 [mm]	L2 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	
16	10	6	41	199 211 305	199 211 355	198	22	14	24	90	74	
20	15	6	94	199 211 306	199 211 356	207	25	17	28	96	73	
25	20	6	175	199 211 307	199 211 357	221	30	22	37	107	71	
32	25	6	296	199 211 308	199 211 358	240	35	22	37	117	72	
40	32	6	416	199 211 309	199 211 359	270	42	22	44	130	80	
50	40	3	512	199 211 310	199 211 360			22	48	146	82	
63	50	2	620	199 211 311	199 211 361			22	60	164	82	

Angle seat valve type 211 PVC-U

FO (Fail safe to open)

With solvent cement spigots metric



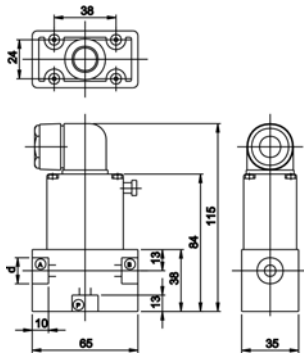
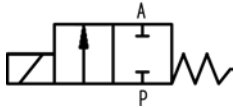
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	L [mm]	L1 [mm]	L2 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	
16	10	10	41	199 211 705	199 211 755	198	22	14	24	90	74	
20	15	10	94	199 211 706	199 211 756	207	25	17	28	96	73	
25	20	10	175	199 211 707	199 211 757	221	30	22	37	107	71	
32	25	10	296	199 211 708	199 211 758	240	35	22	37	117	72	
40	32	10	416	199 211 709	199 211 759	270	42	22	44	130	80	
50	40	6	512	199 211 710	199 211 760			22	48	146	82	
63	50	4	620	199 211 711	199 211 761			22	60	164	82	

PVC-U metric

Solenoid valves

Solenoid valve type 157 PVC-U
Nominal voltage 230V 50Hz ±10%
Function A straight-through valve 2/2 ways
With threaded sockets parallel female thread Rp

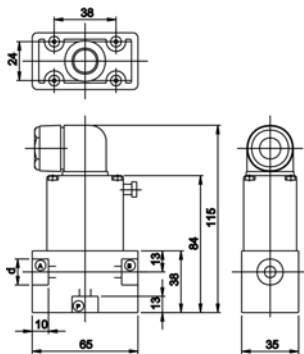
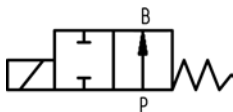
- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	Inch	PN [bar]	EPDM Code	FPM Code	
4	G3/8	0.0 - 4.0	199 157 007	199 157 002	
6	G3/8	0.0 - 2.0	199 157 008	199 157 003	
8	G3/8	0.0 - 1.0	199 157 009	199 157 004	

Solenoid valve type 157 PVC-U
Nominal voltage 230V 50Hz ±10%
Function B straight-through valve 2/2 ways
With threaded sockets parallel female thread Rp

- With manual override
- Electrical connection: cable plug
- Protection class IP 65

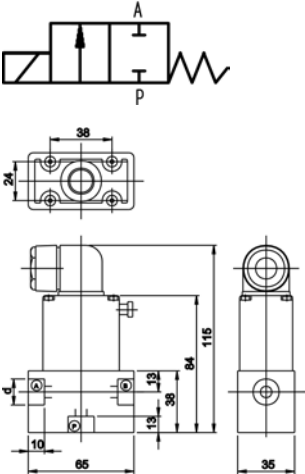


DN [mm]	Inch	PN [bar]	EPDM Code	FPM Code	
4	G3/8	0.0 - 4.0	199 157 027	199 157 022	
6	G3/8	0.0 - 2.0	199 157 028	199 157 023	
8	G3/8	0.0 - 1.0	199 157 029	199 157 024	

PVC-U metric

Solenoid valve type 157 PVC-U
Nominal voltage 24V DC *24V AC/DC
Function A straight-through valve 2/2 ways
With threaded sockets parallel female thread Rp

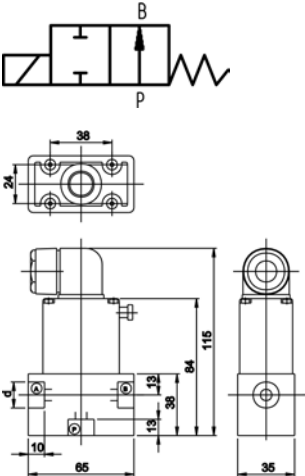
- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	Inch	PN [bar]	EPDM Code	FPM Code	
4	G3/8	0.0 - 4.0	199 157 627	199 157 622	
6	G3/8	0.0 - 2.0	199 157 628	199 157 623	
* 8	G3/8	0.0 - 1.0	199 157 629	199 157 624	

Solenoid valve type 157 PVC-U
Nominal voltage 24V DC *24V AC/DC
Function B straight-through valve 2/2 ways
With threaded sockets parallel female thread Rp

- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	Inch	PN [bar]	EPDM Code	FPM Code	
4	G3/8	0.0 - 4.0	199 157 647	199 157 642	
6	G3/8	0.0 - 2.0	199 157 648	199 157 643	
* 8	G3/8	0.0 - 1.0	199 157 649	199 157 644	

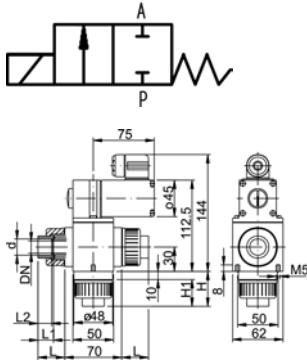
PVC-U metric

Solenoid valve type 160 PVC-U

Nominal voltage 230V 50Hz $\pm 10\%$

Function A straight through valve 2/2 ways

With solvent cement sockets metric



- With manual override
- Electric connection with cable plug
- Protection class IP 65

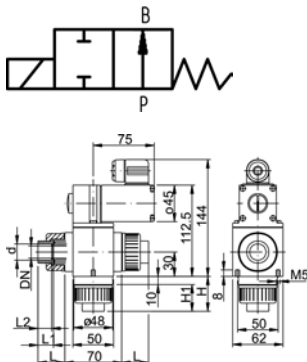
DN [mm]	d [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	L [mm]	L1 [mm]	L2 [mm]	
10	16	0.0 - 3.0	33	199 160 010	199 160 005	30	17	14	
10	20	0.0 - 3.0	33	199 160 011	199 160 006	30	17	14	
15	20	0.0 - 1.0	75	199 160 012	199 160 007	33	19	16	
15	25	0.0 - 1.0	75	199 160 013	199 160 008	33	19	16	
20	25	0.0 - 0.5	100	199 160 014	199 160 009	37	22	19	

Solenoid valve type 160 PVC-U

Nominal voltage 230V 50Hz $\pm 10\%$

Function B straight through valve 2/2 ways

With solvent cement sockets metric



- With manual override
- Electric connection with cable plug
- Protection class IP 65

DN [mm]	d [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	L [mm]	L1 [mm]	L2 [mm]	
10	16	0.0 - 2.0	33	199 160 025	199 160 020	30	17	14	
10	20	0.0 - 2.0	33	199 160 026	199 160 021	30	17	14	
15	20	0.0 - 1.0	75	199 160 027	199 160 022	33	19	16	
15	25	0.0 - 1.0	75	199 160 028	199 160 023	33	19	16	
20	25	0.0 - 0.5	100	199 160 029	199 160 024	37	22	19	

PVC-U metric

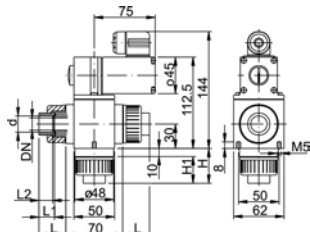
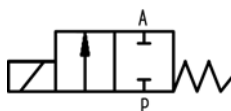
Solenoid valve type 160 PVC-U

Nominal voltage 24V AC/DC

Function A straight through valve 2/2 ways

With solvent cement sockets metric

- With manual override
- Electric connection with cable plug
- Protection class IP 65



DN [mm]	d [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	L [mm]	L1 [mm]	L2 [mm]	
10	16	0.0 - 3.0	33	199 160 370	199 160 365	30	17	14	
10	20	0.0 - 3.0	33	199 160 371	199 160 366	30	17	14	
15	20	0.0 - 1.0	75	199 160 372	199 160 367	33	19	16	
15	25	0.0 - 1.0	75	199 160 373	199 160 368	33	19	16	
20	25	0.0 - 0.5	100	199 160 374	199 160 369	37	22	19	

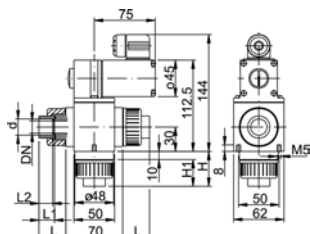
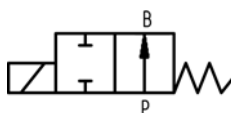
Solenoid valve type 160 PVC-U

Nominal voltage 24V AC/DC

Function B straight-through valve 2/2 ways

With solvent cement sockets metric

- With manual override
- Electric connection with cable plug
- Protection class IP 65



DN [mm]	d [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	L [mm]	L1 [mm]	L2 [mm]	
10	16	0.0 - 2.0	33	199 160 385	199 160 380	30	17	14	
10	20	0.0 - 2.0	33	199 160 386	199 160 381	30	17	14	
15	20	0.0 - 1.0	75	199 160 387	199 160 382	33	19	16	
15	25	0.0 - 1.0	75	199 160 388	199 160 383	33	19	16	
20	25	0.0 - 0.5	100	199 160 389	199 160 384	37	22	19	

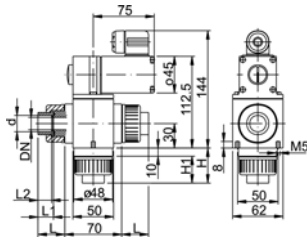
PVC-U metric

Solenoid valve type 161 PVC-U

Nominal voltage 230V 50Hz $\pm 10\%$

Function E mixing valve 3/2 ways

With solvent cement sockets metric



- With manual override
- Electrical connection: cable plug
- Protection class IP 65

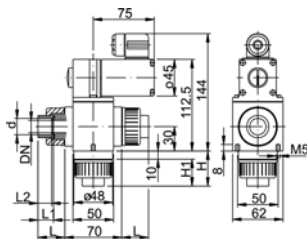
DN [mm]	d [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	
10	16	0.0 - 0.6	33	199 161 040	199 161 035	30	17	14	40	30	
10	20	0.0 - 0.6	33	199 161 041	199 161 036	30	17	14	40	30	
15	20	0.0 - 0.3	67	199 161 042	199 161 037	33	19	16	43	33	
15	25	0.0 - 0.3	67	199 161 043	199 161 038	33	19	16	43	33	
20	25	0.0 - 0.2	83	199 161 044	199 161 039	37	22	19	47	37	

Solenoid valve type 161 PVC-U

Nominal voltage 24V AC/DC

Function E mixing valve 3/2 ways

With solvent cement sockets metric



- With manual override
- Electrical connection: cable plug
- Protection class IP 65

DN [mm]	d [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	
10	16	0.0 - 0.6	33	199 161 430	199 161 425	30	17	14	40	30	
10	20	0.0 - 0.6	33	199 161 431	199 161 426	30	17	14	40	30	
15	20	0.0 - 0.3	67	199 161 432	199 161 427	33	19	16	43	33	
15	25	0.0 - 0.3	67	199 161 433	199 161 428	33	19	16	43	33	
20	25	0.0 - 0.2	83	199 161 434	199 161 429	37	22	19	47	37	

PVC-U metric

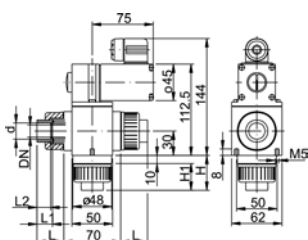
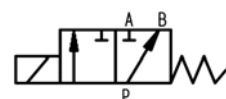
Solenoid valve type 161 PVC-U

Nominal voltage 230V 50Hz $\pm 10\%$

Function F distribution valve 3/2 ways

With solvent cement sockets metric

- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	d [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	
10	16	0 - 1.00	33	199 161 055	199 161 050	30	17	14	40	30	
10	20	0 - 1.00	33	199 161 056	199 161 051	30	17	14	40	30	
15	20	0 - 0.50	67	199 161 057	199 161 052	33	19	16	43	33	
15	25	0 - 0.50	67	199 161 058	199 161 053	33	19	16	43	33	
20	25	0 - 0.25	83	199 161 059	199 161 054	37	22	19	47	37	

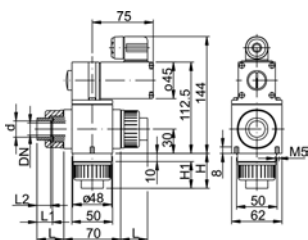
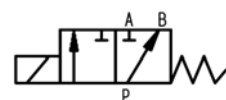
Solenoid valve type 161 PVC-U

Nominal voltage 24V AC/DC

Function F distribution valve 3/2 ways

With solvent cement sockets metric

- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	d [mm]	kv-value ($\Delta p=1$ bar) [l/min]	PN [bar]	EPDM Code	FPM Code	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	
10	16	33	0 - 1.00	199 161 445	199 161 440	30	17	14	40	30	
10	20	33	0 - 1.00	199 161 446	199 161 441	30	17	14	40	30	
15	20	67	0 - 0.50	199 161 447	199 161 442	33	19	16	43	33	
15	25	67	0 - 0.50	199 161 448	199 161 443	33	19	16	43	33	
20	25	83	0 - 0.25	199 161 449	199 161 444	37	22	19	47	37	

PVC-U metric

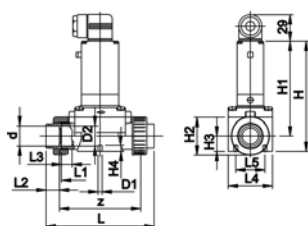
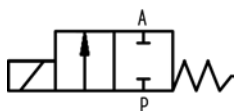
Solenoid valve type 165 PVC-U

Standard voltage 230V 50Hz

Function A straight-through valve 2/2 ways

With solvent cement sockets metric

- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	d [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
15	20	0.5 - 6.0	83	199 165 012	199 165 002
20	25	0.5 - 6.0	100	199 165 013	199 165 003
25	32	0.5 - 6.0	233	199 165 014	199 165 004
32	40	0.5 - 6.0	267	199 165 015	199 165 005
40	50	0.5 - 6.0	500	199 165 016	199 165 006
50	63	0.5 - 6.0	600	199 165 017	199 165 007

DN [mm]	D2 [mm]	z [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]
15		116	148	110	16		63	40	148	122	53	22	8
20	25	116	154	110	19	18	62	40	148	122	53	22	8
25		147	190	141	22		85	45	175	137	76	31	15
32	40	147	198	141	26	23	85	45	175	137	76	31	15
40		198	254	192	31		115	45	212	160	105	42	15
50	63	198	268	192	38	33	115	45	212	160	105	42	15

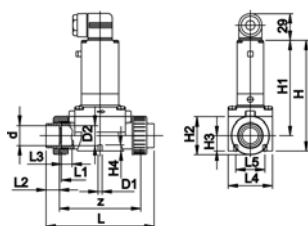
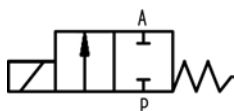
Solenoid valve type 165 PVC-U

Standard voltage 115V 50Hz

Function A straight-through valve 2/2 ways

With solvent cement sockets metric

- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	d [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
15	20	0.5 - 6.0	83	199 165 042	199 165 032
20	25	0.5 - 6.0	100	199 165 043	199 165 033
25	32	0.5 - 6.0	233	199 165 044	199 165 034
32	40	0.5 - 6.0	267	199 165 045	199 165 035
40	50	0.5 - 6.0	500	199 165 046	199 165 036
50	63	0.5 - 6.0	600	199 165 047	199 165 037

DN [mm]	D2 [mm]	z [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]
15		116	148	110	16		63	40	148	122	53	22	8
20	25	116	154	110	19	18	62	40	148	122	53	22	8
25		147	190	141	22		85	45	175	137	76	31	15
32	40	147	198	141	26	23	85	45	175	137	76	31	15
40		198	254	192	31		115	45	212	160	105	42	15
50	63	198	268	192	38	33	115	45	212	160	105	42	15

PVC-U metric

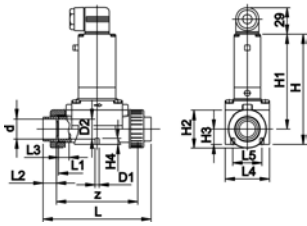
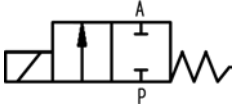
Solenoid valve type 165 PVC-U

Standard voltage 24V DC

Function A straight-through valve 2/2 ways

With solvent cement sockets metric

- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	d [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
15	20	0.5 - 6.0	83	199 165 022	199 165 072	
20	25	0.5 - 6.0	100	199 165 023	199 165 073	
25	32	0.5 - 6.0	233	199 165 024	199 165 074	
32	40	0.5 - 6.0	267	199 165 025	199 165 075	
40	50	0.5 - 6.0	500	199 165 026	199 165 076	
50	63	0.5 - 6.0	600	199 165 027	199 165 077	

DN [mm]	D2 [mm]	z [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	
15		116	148	110	16		63	40	148	122	53	22	8	
20	25	116	154	110	19	18	62	40	148	122	53	22	8	
25		147	190	141	22		85	45	175	137	76	31	15	
32	40	147	198	141	26	23	85	45	175	137	76	31	15	
40		198	254	192	31		115	45	212	160	105	42	15	
50	63	198	268	192	38	33	115	45	212	160	105	42	15	

PVC-U metric

Process control valves

Pressure reducing valve type V82 PVC-U With solvent cement spigots metric



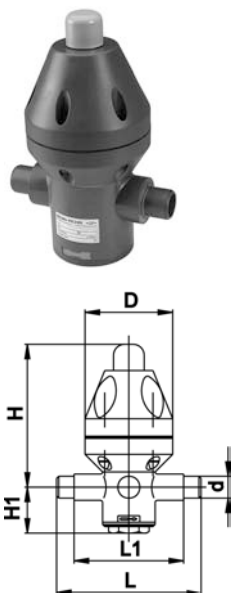
d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 012	199 041 022	70	134	130	100	
20	15	0.5 - 10	199 041 013	199 041 023	70	134	130	100	
25	20	0.5 - 10	199 041 014	199 041 024	100	174	180	134	
32	25	0.5 - 10	199 041 015	199 041 025	100	174	180	134	
40	32	0.5 - 10	199 041 016	199 041 026	130	224	230	175	
50	40	0.5 - 10	199 041 017	199 041 027	130	224	230	175	
63	50	0.5 - 10	199 041 018	199 041 028	150	244	285	210	
75	65	0.5 - 6	199 041 019	199 041 029	200	300	350	250	
90	80	0.5 - 6	199 041 020	199 041 030	250	360	425	305	
110	100	0.5 - 4	199 041 021	199 041 031	300	420	495	345	

Pressure reducing valve type V182 PVC-U With solvent cement spigots metric



d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	FPM Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 600	199 041 611	70	134	130	100	
20	15	0.5 - 10	199 041 601	199 041 612	70	134	130	100	
25	20	0.5 - 10	199 041 602	199 041 613	100	174	180	134	
32	25	0.5 - 10	199 041 603	199 041 614	100	174	180	134	
40	32	0.5 - 10	199 041 604	199 041 615	130	224	230	175	
50	40	0.5 - 10	199 041 605	199 041 616	130	224	230	175	

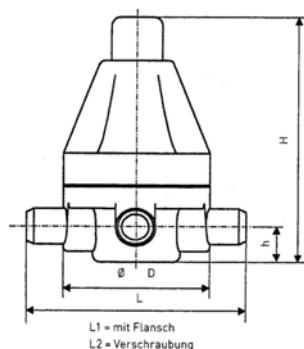
Pressure reducing valve type V782 PVC-U With solvent cement spigots metric



d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 060	199 041 066	83	134	102	138	48	
20	15	0.5 - 10	199 041 061	199 041 067	83	134	102	138	48	
25	20	0.5 - 10	199 041 062	199 041 068	113	154	110	205	65	
32	25	0.5 - 10	199 041 063	199 041 069	113	154	110	205	65	
40	32	0.5 - 10	199 041 064	199 041 070	165	224	162	248	95	
50	40	0.5 - 10	199 041 065	199 041 071	165	224	162	248	95	

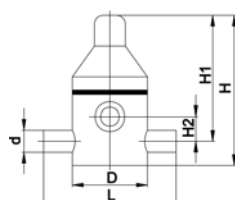
PVC-U metric

Pressure relief valve type V185 PVC-U With solvent cement spigots metric



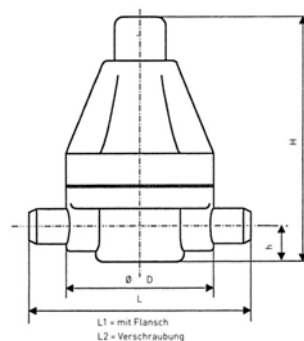
d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 360	199 041 330	83	134	137	20	
20	15	0.5 - 10	199 041 361	199 041 331	83	134	137	20	
25	20	0.5 - 10	199 041 362	199 041 332	83	134	137	20	
32	25	0.5 - 10	199 041 363	199 041 333	112	174	199	27	
40	32	0.5 - 10	199 041 364	199 041 334	112	174	199	43	
50	40	0.5 - 10	199 041 365	199 041 335	165	224	290	43	
63	50	0.5 - 10	199 041 366	199 041 336	165	244	290	43	

Pressure relief valve type V85 PVC-U With solvent cement spigots metric



d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	H2 [mm]	
75	65	1.0 - 6	199 041 919	199 041 984	180	284	295	250	70	
90	80	1.0 - 6	199 041 940	199 041 985	200	300	400	340	95	
110	100	1.0 - 4	199 041 914	199 041 986	250	380	475	405	110	

Pressure retaining valve type V186 PVC-U With solvent cement spigots metric



d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 379	199 041 309	83	134	137	20	
20	15	0.5 - 10	199 041 380	199 041 310	83	134	137	20	
25	20	0.5 - 10	199 041 381	199 041 311	83	134	137	20	
32	25	0.5 - 10	199 041 382	199 041 312	112	174	199	27	
40	32	0.5 - 10	199 041 383	199 041 313	112	174	199	43	
50	40	0.5 - 10	199 041 384	199 041 314	165	224	290	43	
63	50	0.5 - 10	199 041 385	199 041 315	165	244	290	43	

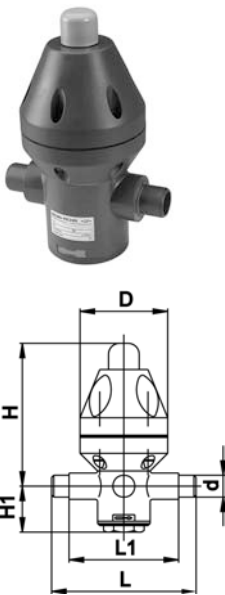
PVC-U metric

Pressure retaining valve type V86 PVC-U With solvent cement spigots metric



d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
75	65	0.2 - 4	199 041 922	199 041 989	180	284	275	230	
75	65	1.0 - 6	199 041 950	199 041 990	180	284	275	230	
90	80	0.2 - 4	199 041 987	199 041 944	250	360	410	320	
90	80	1.0 - 6	199 041 988	199 041 991	250	360	410	320	
110	100	1.0 - 4	199 041 953	199 041 945	250	380	485	415	

Pressure retaining valve type V786 PVC-U With solvent cement spigots metric



d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 090	199 041 096	83	134	102	138	38	
20	15	0.5 - 10	199 041 091	199 041 097	83	134	102	138	38	
25	20	0.5 - 10	199 041 092	199 041 098	112	154	110	205	55	
32	25	0.5 - 10	199 041 093	199 041 099	112	154	110	205	55	
40	32	0.5 - 4	199 041 094	199 041 100	165	224	162	248	85	
50	40	0.5 - 4	199 041 095	199 041 101	165	224	162	248	85	

Gauge guard type Z700 PVC-U With manometer 0-10 bar



d [mm]	PTFE Code	G_R	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	
25	199 041 000	¼	72	63	129	71	15	
32	199 041 001	½	100	100	210	90	22	

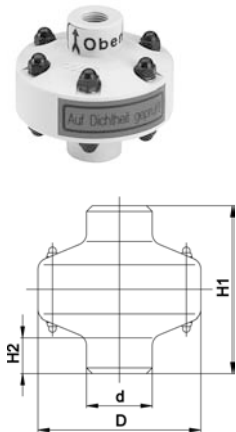
PVC-U metric

Gauge guard type Z700 PVC-U With manometer 0-6 bar



d [mm]	PTFE Code	G_R	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	
25	199 041 292	¼	72	63	129	71	15	
32	199 041 293	½	100	100	210	90	22	

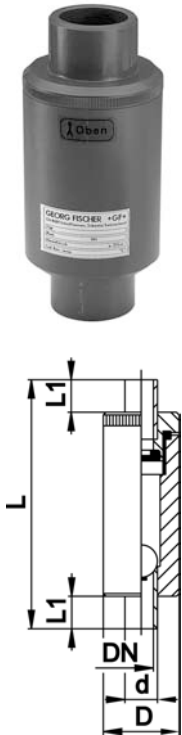
Gauge guard type Z701 PVC-U Without manometer



d [mm]	PTFE Code	G_R	D [mm]	H1 [mm]	H2 [mm]	
25	199 041 006	¼	72	71	15	
32	199 041 007	½	100	90	22	

PVC-U metric

Ventilating and bleed valve type V91 PVC-U With solvent cement spigots metric



d [mm]	DN [mm]	PN	FPM Code	D [mm]	L [mm]	L1 [mm]	
16	10	10	199 041 238	35	114	14	
20	15	10	199 041 239	40	124	16	
25	20	10	199 041 240	45	144	19	
32	25	10	199 041 241	55	154	22	
40	32	10	199 041 242	70	174	26	
50	40	10	199 041 243	80	194	31	
63	50	10	199 041 244	95	224	38	
75	65	10	199 041 245	115	284	44	
90	80	10	199 041 246	150	300	51	

Ventilating valve type V95 PVC-U With solvent cement spigots metric



d [mm]	DN [mm]	PN	FPM Code	D [mm]	L [mm]	L1 [mm]	
16	10	10	199 041 265	35	114	14	
20	15	10	199 041 266	40	124	16	
25	20	10	199 041 267	45	144	19	
32	25	10	199 041 268	55	154	22	
40	32	10	199 041 269	70	174	26	
50	40	10	199 041 270	80	194	31	
63	50	10	199 041 271	95	224	38	
75	65	10	199 041 272	115	284	44	
90	80	10	199 041 273	150	300	51	

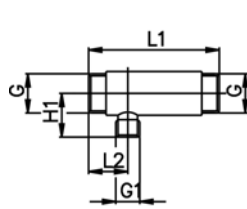
PVC-U metric

Water jet suction pump type P20 PVC-U

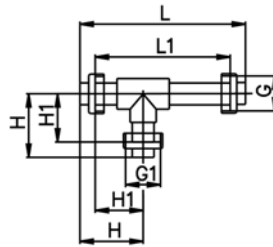
- DN 10-20: BSP parallel female thread
- DN 25-50: Solvent cement socket metric
- DN 65-80: Solvent cement spigot metric



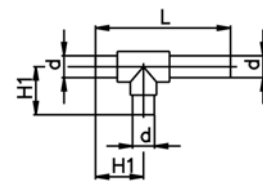
d [mm]	DN [mm]	PN	EPDM Code	G [inch]	G1 [inch]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]
16	10	10	199 041 120	R 3/4	R 3/4		110	40		35
20	15	10	199 041 121	R 1	R 3/4		125	40		35
25	20	10	199 041 122	R 1 1/4	R 3/4		145	45		45
32	25	10	199 041 123	R 1 1/2	R 1 1/2	245	195		96	71
40	32	10	199 041 124	R 2	R 2	297	239		116	87
50	40	10	199 041 125	R 2 1/4	R 2 1/4	369	301		139	105
63	50	10	199 041 126	R 2 3/4	R 2 3/4	433	351		169	128
75	65	10	199 041 127			388				115
90	80	10	199 041 128			465				149



DN 10 - 20

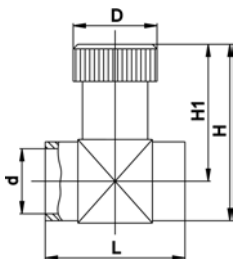


DN 25 - 50



DN 65 - 80

Throttle valve type V251 PVC-U With solvent cement sockets metric

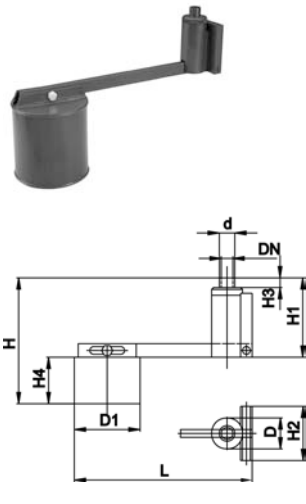


d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	H [mm]	H1 [mm]
16	10	10	199 041 203	199 041 210	29	47	57	45
20	15	10	199 041 204	199 041 211	35	55	66	51
25	20	10	199 041 205	199 041 212	40	66	80	63
32	25	10	199 041 206	199 041 213	47	80	96	75
40	32	10	199 041 207	199 041 214	56	100	111	86
50	40	10	199 041 208	199 041 215	70	120	133	101
63	50	10	199 041 209	199 041 216	88	146	158	118

PVC-U metric

Float valve type V140 PVC-U With solvent cement spigots metric

• Lever 1:10



d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	D1 [mm]	L [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]
16	10	6	199 041 147	199 041 156	45	125	380	270	120	80	14	130
20	15	6	199 041 148	199 041 157	45	125	380	270	120	80	16	130
25	20	6	199 041 149	199 041 158	65	200	530	340	160	110	19	170
32	25	6	199 041 150	199 041 159	65	200	530	345	165	110	22	170
40	32	6	199 041 151	199 041 160	90	225	720	440	210	130	26	210
50	40	6	199 041 152	199 041 161	90	225	720	445	215	130	31	210
63	50	6	199 041 153	199 041 162	130	315	975	595	255	160	38	290
75	65	6	199 041 154	199 041 163	130	315	975	600	260	160	44	290
90	80	6	199 041 155	199 041 164	150	355	1140	640	290	180	51	340

PVC-C metric

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PVC-C metric

Ball valves electric

Ball valve type 107 PVC-C 100-230V

With manual emergency override

With solvent cement sockets metric



DN10/15 - 50

Model:

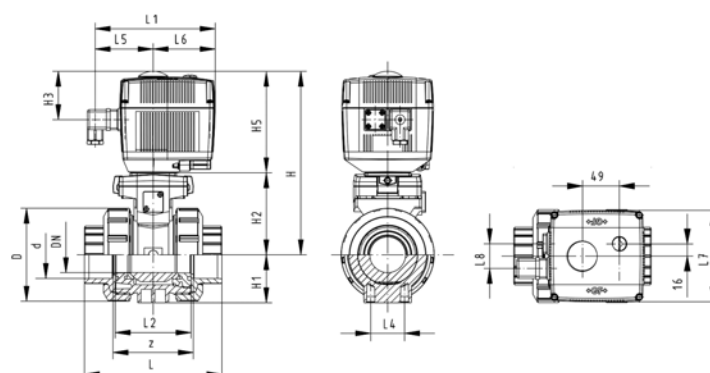
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 107 102	199 107 112
20	15	10	185	199 107 103	199 107 113
25	20	10	350	199 107 104	199 107 114
32	25	10	700	199 107 105	199 107 115
40	32	10	1000	199 107 106	199 107 116
50	40	10	1600	199 107 107	199 107 117
63	50	10	3100	199 107 108	199 107 118

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	200	27	64	64	137	92	161	56	25	77	83	122	33	64
20	50	200	27	64	64	137	95	161	56	25	77	83	122	33	64
25	58	209	30	73	64	137	110	161	65	25	77	83	122	33	72
32	68	209	36	73	64	137	123	161	71	25	77	83	122	33	79
40	84	220	44	64	64	137	146	161	85	45	77	83	122	33	94
50	97	220	51	84	64	137	157	161	89	45	77	83	122	33	95
63	124	243	64	106	64	137	183	161	101	45	77	83	122	33	107



PVC-C metric

Ball valve type 107 PVC-C 100-230V With manual emergency override With solvent cement spigots metric



DN10/15 - 50

Model:

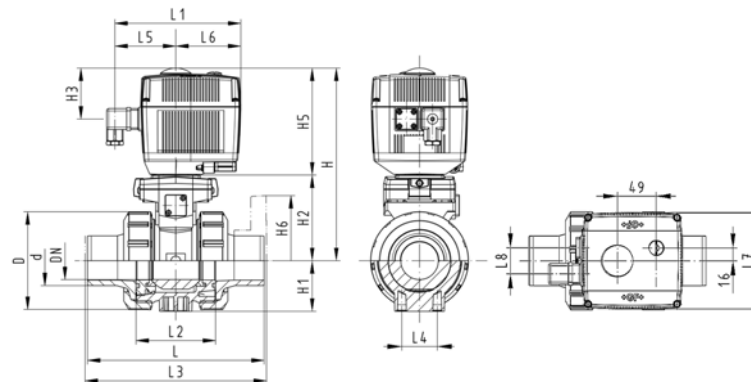
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 107 122	199 107 132
20	15	10	185	199 107 123	199 107 133
25	20	10	350	199 107 124	199 107 134
32	25	10	700	199 107 125	199 107 135
40	32	10	1000	199 107 126	199 107 136
50	40	10	1600	199 107 127	199 107 137
63	50	10	3100	199 107 128	199 107 138

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	200	27	64	64	137	114	161	56	130	25	77	83	122	33
20	50	200	27	64	64	137	124	161	56	130	25	77	83	122	33
25	58	209	30	73	64	137	144	161	65	150	25	77	83	122	33
32	68	209	36	73	64	137	154	161	71	160	25	77	83	122	33
40	84	220	44	84	64	137	174	161	85	180	45	77	83	122	33
50	97	220	51	84	64	137	194	161	89	200	45	77	83	122	33
63	124	243	64	106	64	137	224	161	101	230	45	77	83	122	33



PVC-C metric

Ball valve type 107 PVC-C 100-230V With manual emergency override With threaded sockets Rp



DN10/15 - 50

Model:

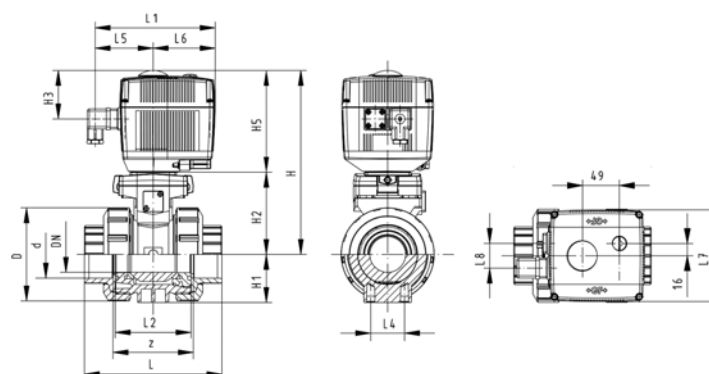
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code	
3/8	10	10	70	199 107 702	199 107 712	
1/2	15	10	185	199 107 703	199 107 713	
3/4	20	10	350	199 107 704	199 107 714	
1	25	10	700	199 107 705	199 107 715	
1 1/4	32	10	1000	199 107 706	199 107 716	
1 1/2	40	10	1600	199 107 707	199 107 717	
2	50	10	3100	199 107 708	199 107 718	

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
3/8	50	200	27	64	64	137	92	161	56	25	77	83	122	33	64
1/2	50	200	27	64	64	137	95	161	56	25	77	83	122	33	64
3/4	58	209	30	73	64	137	110	161	65	25	77	83	122	33	72
1	68	209	36	73	64	137	123	161	71	25	77	83	122	33	79
1 1/4	84	220	44	84	64	137	146	161	85	45	77	83	122	33	94
1 1/2	97	220	51	84	64	137	157	161	89	45	77	83	122	33	95
2	124	243	64	106	64	137	183	161	101	45	77	83	122	33	107



PVC-C metric

Ball valve type 107 PVC-C 24V

With manual emergency override

With solvent cement sockets metric

Model:

- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

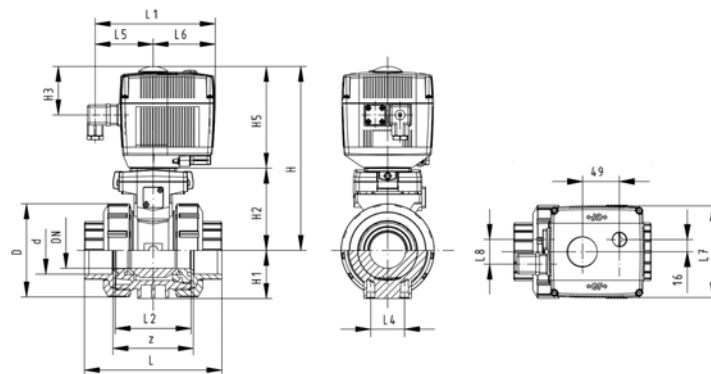
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 107 142	199 107 152
20	15	10	185	199 107 143	199 107 153
25	20	10	350	199 107 144	199 107 154
32	25	10	700	199 107 145	199 107 155
40	32	10	1000	199 107 146	199 107 156
50	40	10	1600	199 107 147	199 107 157
63	50	10	3100	199 107 148	199 107 158

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	200	27	64	64	137	92	161	56	25	77	83	122	33	64
20	50	200	27	64	64	137	95	161	56	25	77	83	122	33	64
25	58	209	30	73	64	137	110	161	65	25	77	83	122	33	72
32	68	209	36	73	64	137	123	161	71	25	77	83	122	33	79
40	84	220	44	84	64	137	146	161	85	45	77	83	122	33	94
50	97	220	51	84	64	137	157	161	89	45	77	83	122	33	95
63	124	243	64	106	64	137	183	161	101	45	77	83	122	33	107



PVC-C metric

Ball valve type 107 PVC-C 24V With manual emergency override With solvent cement spigots metric



DN10/15 - 50

Model:

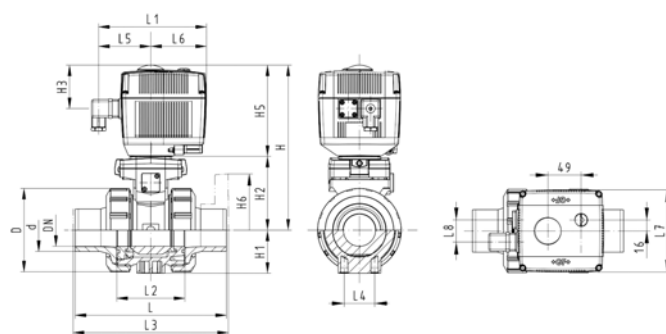
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 107 162	199 107 172
20	15	10	185	199 107 163	199 107 173
25	20	10	350	199 107 164	199 107 174
32	25	10	700	199 107 165	199 107 175
40	32	10	1000	199 107 166	199 107 176
50	40	10	1600	199 107 167	199 107 177
63	50	10	3100	199 107 168	199 107 178

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	200	27	64	64	137	114	161	56	130	25	77	83	122	33
20	50	200	27	64	64	137	124	161	56	130	25	77	83	122	33
25	58	209	30	73	64	137	144	161	65	150	25	77	83	122	33
32	68	209	36	73	64	137	154	161	71	160	25	77	83	122	33
40	84	220	44	84	64	137	174	161	85	180	45	77	83	122	33
50	97	220	51	84	64	137	194	161	89	200	45	77	83	122	33
63	124	243	64	106	64	137	224	161	101	230	45	77	83	122	33



PVC-C metric

Ball valve type 107 PVC-C 24V With manual emergency override With threaded sockets Rp



DN10/15 - 50

Model:

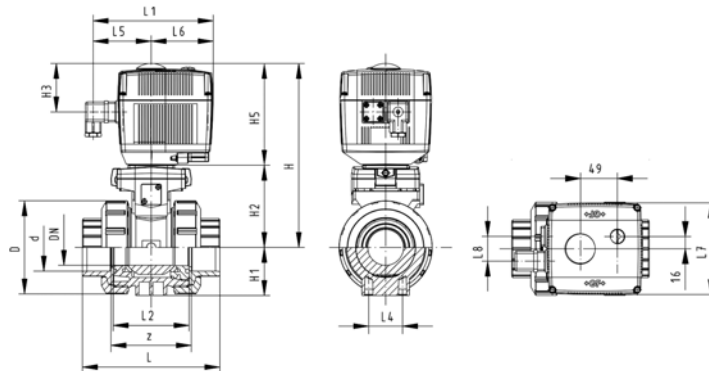
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 107 742	199 107 752
1/2	15	10	185	199 107 743	199 107 753
3/4	20	10	350	199 107 744	199 107 754
1	25	10	700	199 107 745	199 107 755
1 1/4	32	10	1000	199 107 746	199 107 756
1 1/2	40	10	1600	199 107 747	199 107 757
2	50	10	3100	199 107 748	199 107 758

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
3/8	50	200	27	64	64	137	92	161	56	25	77	83	122	33	64
1/2	50	200	27	64	64	137	95	161	56	25	77	83	122	33	64
3/4	58	209	30	73	64	137	110	161	65	25	77	83	122	33	72
1	68	209	36	73	64	137	123	161	71	25	77	83	122	33	79
1 1/4	84	220	44	84	64	137	146	161	85	45	77	83	122	33	94
1 1/2	97	220	51	84	64	137	157	161	89	45	77	83	122	33	95
2	124	243	64	106	64	137	183	161	101	45	77	83	122	33	107



PVC-C metric

Ball valve type 130 PVC-C 100-230V With manual emergency override With solvent cement sockets metric



DN10/15 - 50



Model:

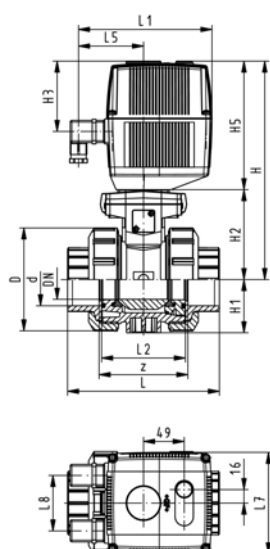
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

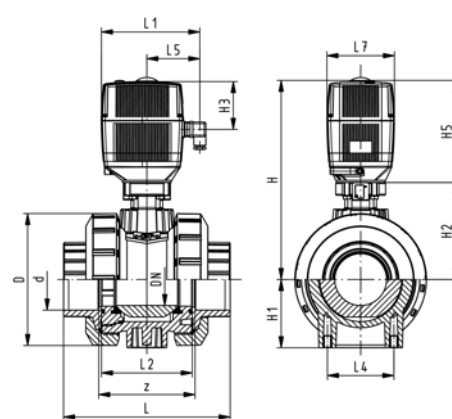
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 130 402	199 130 412
20	15	10	185	199 130 403	199 130 413
25	20	10	350	199 130 404	199 130 414
32	25	10	700	199 130 405	199 130 415
40	32	10	1000	199 130 406	199 130 416
50	40	10	1600	199 130 407	199 130 417
63	50	10	3100	199 130 408	199 130 418
75	65	10	5000	199 130 409	199 130 419
90	80	10	7000	199 130 410	199 130 420
110	100	10	11000	199 130 411	199 130 421

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
16	50	231	27	64	94	167	92	180	56	25	97	122	64
20	50	231	27	64	94	167	95	180	56	25	97	122	64
25	58	240	30	73	94	167	110	180	65	25	97	122	72
32	68	240	36	73	94	167	123	180	71	25	97	122	79
40	84	251	44	84	94	167	146	180	85	45	97	122	94
50	97	251	51	84	94	167	157	180	89	45	97	122	95
63	124	273	64	106	94	167	183	180	101	45	97	122	107
75	166	346	85	156	94	190	233	180	136	70	98	122	144
90	200	358	105	168	94	190	254	180	141	70	98	122	151
110	238	365	123	175	94	190	301	180	164	120	98	122	174



DN10/15-50



DN65-100

PVC-C metric

Ball valve type 130 PVC-C 100-230V With manual emergency override With solvent cement spigots metric



DN10/15 - 50



Model:

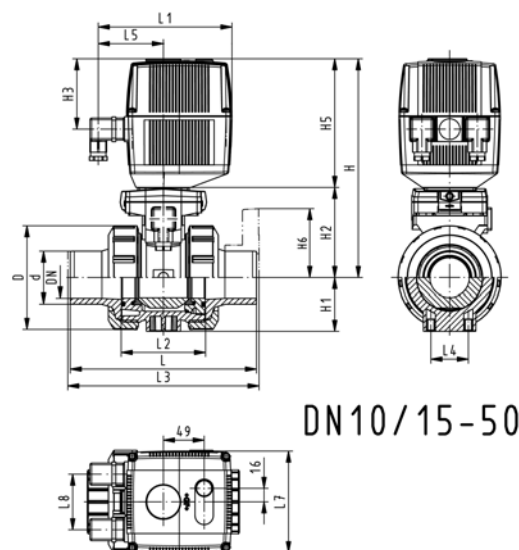
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

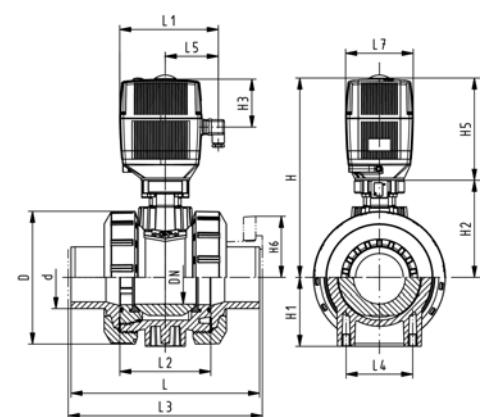
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 130 422	199 130 432
20	15	10	185	199 130 423	199 130 433
25	20	10	350	199 130 424	199 130 434
32	25	10	700	199 130 425	199 130 435
40	32	10	1000	199 130 426	199 130 436
50	40	10	1600	199 130 427	199 130 437
63	50	10	3100	199 130 428	199 130 438
75	65	10	5000	199 130 429	199 130 439
90	80	10	7000	199 130 430	199 130 440
110	100	10	11000	199 130 431	199 130 441

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]
16	50	231	27	64	94	167	114	180	56	130	25	97	122
20	50	231	27	64	94	167	124	180	56	130	25	97	122
25	58	240	30	73	94	167	144	180	65	150	25	97	122
32	68	240	36	73	94	167	154	180	71	160	25	97	122
40	84	251	44	84	94	167	174	180	85	180	45	97	122
50	97	251	51	84	94	167	194	180	89	200	45	97	122
63	124	273	64	106	94	167	224	180	101	230	45	97	122
75	166	346	85	156	94	190	284	180	136	290	70	98	122
90	200	358	105	168	94	190	300	180	141	310	70	98	122
110	238	365	123	175	94	190	340	180	164	350	120	98	122



DN10/15-50



DN65-100

PVC-C metric

Ball valve type 130 PVC-C 100-230V With manual emergency override With threaded sockets Rp

Model:

- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

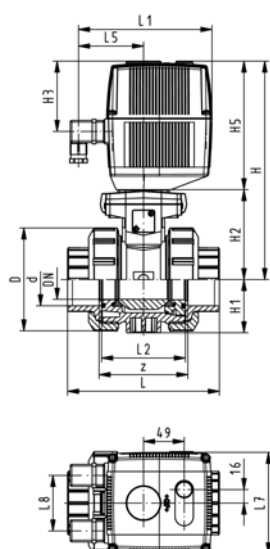


DN10/15 - 50

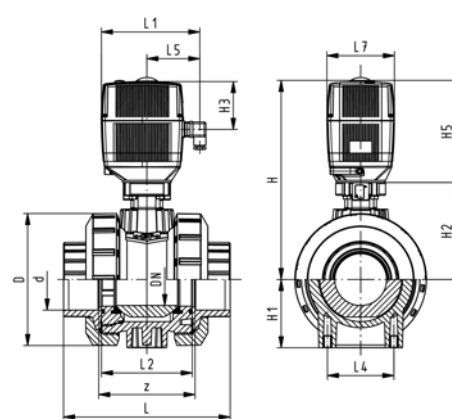


Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 130 182	199 130 192
1/2	15	10	185	199 130 183	199 130 193
3/4	20	10	350	199 130 184	199 130 194
1	25	10	700	199 130 185	199 130 195
1 1/4	32	10	1000	199 130 186	199 130 196
1 1/2	40	10	1600	199 130 187	199 130 197
2	50	10	3100	199 130 188	199 130 198
2 1/2	65	10	5000	199 130 189	199 130 199
3	80	10	7000	199 130 190	199 130 200
4	100	10	11000	199 130 191	199 130 201

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
3/8	50	231	27	64	94	167	92	180	56	25	97	122	64
1/2	50	231	27	64	94	167	95	180	56	25	97	122	64
3/4	58	240	30	73	94	167	110	180	65	25	97	122	72
1	68	240	36	73	94	167	123	180	71	25	97	122	79
1 1/4	84	251	44	84	94	167	146	180	85	45	97	122	94
1 1/2	97	251	51	84	94	167	157	180	89	45	97	122	95
2	124	273	64	106	94	167	183	180	101	45	97	122	107
2 1/2	166	346	85	156	94	190	233	180	136	70	98	122	144
3	200	358	105	168	94	190	254	180	141	70	98	122	151
4	238	365	123	175	94	190	301	180	164	120	98	122	174



DN10/15-50



DN65-100

PVC-C metric

Ball valve type 130 PVC-C 100-230V With manual emergency override With backing flanges PP-st metric



Model:

- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

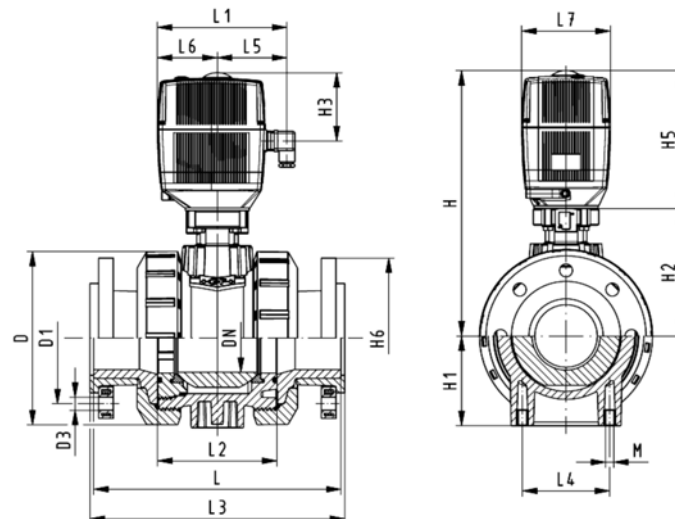
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
75	65	10	5000	199 134 489	199 134 499
90	80	10	7000	199 134 490	199 134 500
110	100	10	11000	199 134 491	199 134 501

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
75	166	346	85	156	94	190	93	284	180	136	290	70	98	83	122
90	200	358	105	168	94	190	100	300	180	141	310	70	98	83	122
110	238	365	123	175	94	190	110	340	180	164	350	120	98	83	122

d [mm]	L8 [mm]
75	66
90	66
110	66



PVC-C metric

Ball valve type 130 PVC-C 24V With manual emergency override With solvent cement sockets metric

Model:

- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

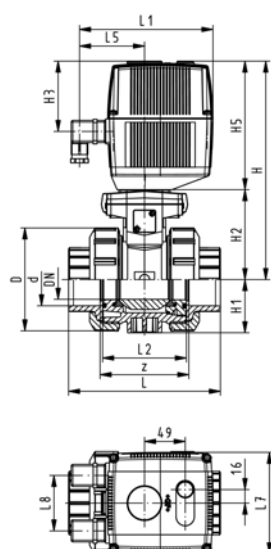


DN10/15 - 50

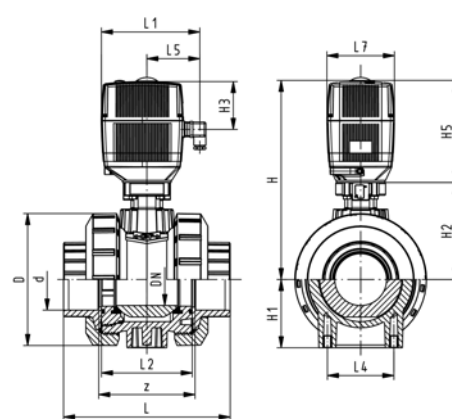


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 130 442	199 130 452
20	15	10	185	199 130 443	199 130 453
25	20	10	350	199 130 444	199 130 454
32	25	10	700	199 130 445	199 130 455
40	32	10	1000	199 130 446	199 130 456
50	40	10	1600	199 130 447	199 130 457
63	50	10	3100	199 130 448	199 130 458
75	65	10	5000	199 130 449	199 130 459
90	80	10	7000	199 130 450	199 130 460
110	100	10	11000	199 130 451	199 130 461

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
16	50	231	27	64	94	167	92	180	56	25	97	122	64
20	50	231	27	64	94	167	95	180	56	25	97	122	64
25	58	240	30	73	94	167	110	180	65	25	97	122	72
32	68	240	36	73	94	167	123	180	71	25	97	122	79
40	84	251	44	84	94	167	146	180	85	45	97	122	94
50	97	251	51	84	94	167	157	180	89	45	97	122	95
63	124	273	64	106	94	167	183	180	101	45	97	122	107
75	166	346	85	156	94	190	233	180	136	70	98	122	144
90	200	358	105	168	94	190	254	180	141	70	98	122	151
110	238	365	123	175	94	190	301	180	164	120	98	122	174



DN10/15-50



DN65-100

PVC-C metric

Ball valve type 130 PVC-C 24V With manual emergency override With solvent cement spigots metric



DN10/15 - 50



Model:

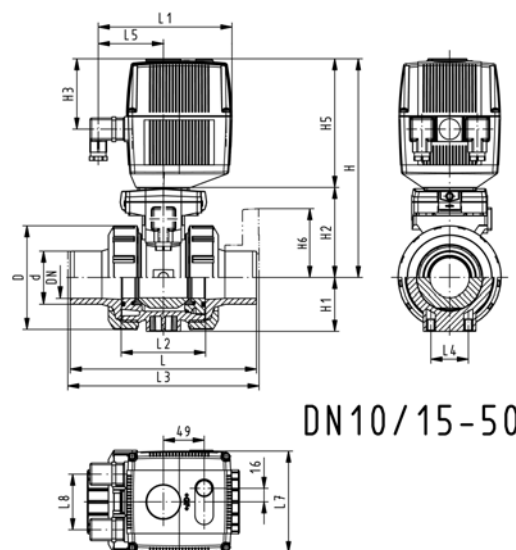
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

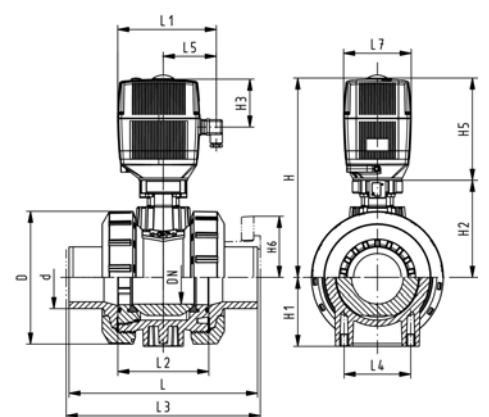
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 130 462	199 130 472
20	15	10	185	199 130 463	199 130 473
25	20	10	350	199 130 464	199 130 474
32	25	10	700	199 130 465	199 130 475
40	32	10	1000	199 130 466	199 130 476
50	40	10	1600	199 130 467	199 130 477
63	50	10	3100	199 130 468	199 130 478
75	65	10	5000	199 130 469	199 130 479
90	80	10	7000	199 130 470	199 130 480
110	100	10	11000	199 130 471	199 130 481

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]
16	50	231	27	64	94	167	114	180	56	0	25	97	122
20	50	231	27	64	94	167	124	180	56	130	25	97	122
25	58	240	30	73	94	167	144	180	65	150	25	97	122
32	68	240	36	73	94	167	154	180	71	160	25	97	122
40	84	251	44	84	94	167	174	180	85	180	45	97	122
50	97	251	51	84	94	167	194	180	89	200	45	97	122
63	124	273	64	106	94	167	224	180	101	230	45	97	122
75	166	346	85	156	94	190	284	180	136	290	70	98	122
90	200	358	105	168	94	190	300	180	141	310	70	98	122
110	238	365	123	175	94	190	340	180	164	350	120	98	122



DN10/15-50



DN65-100

PVC-C metric

Ball valve type 130 PVC-C 24V With manual emergency override With threaded sockets Rp

Model:

- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

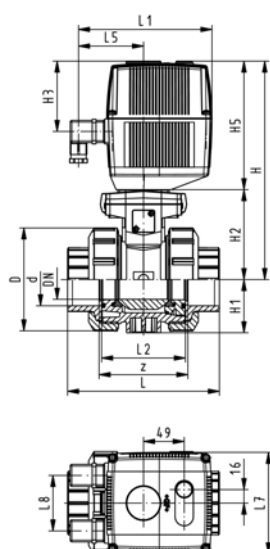


DN10/15 - 50

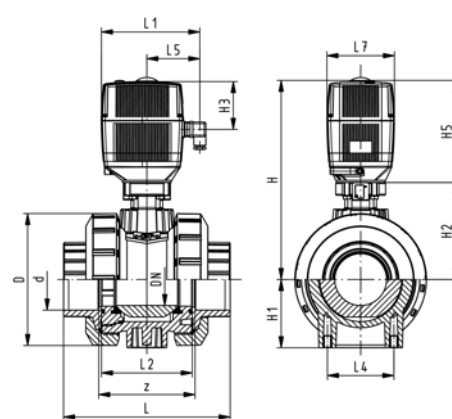


Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 130 202	199 130 212
1/2	15	10	185	199 130 203	199 130 213
3/4	20	10	350	199 130 204	199 130 214
1	25	10	700	199 130 205	199 130 215
1 1/4	32	10	1000	199 130 206	199 130 216
1 1/2	40	10	1600	199 130 207	199 130 217
2	50	10	3100	199 130 208	199 130 218
2 1/2	65	10	5000	199 130 209	199 130 219
3	80	10	7000	199 130 210	199 130 220
4	100	10	11000	199 130 211	199 130 221

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
3/8	50	231	27	64	94	167	92	180	56	25	97	122	64
1/2	50	231	27	64	94	167	95	180	56	25	97	122	64
3/4	58	240	30	73	94	167	110	180	65	25	97	122	72
1	68	240	36	73	94	167	123	180	71	25	97	122	79
1 1/4	84	251	44	84	94	167	146	180	85	45	97	122	94
1 1/2	97	251	51	84	94	167	157	180	89	45	97	122	95
2	124	273	64	106	94	167	183	180	101	45	97	122	107
2 1/2	166	346	85	156	94	190	233	180	136	70	98	122	144
3	200	358	105	168	94	190	254	180	141	70	98	122	151
4	238	365	123	175	94	190	301	180	164	120	98	122	174



DN10/15-50



DN65-100

PVC-C metric

Ball valve type 130 PVC-C 24V With manual emergency override With backing flanges PP-st metric



Model:

- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Control time: EA21: 5s/90°<, EA31: 15s/90°<
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

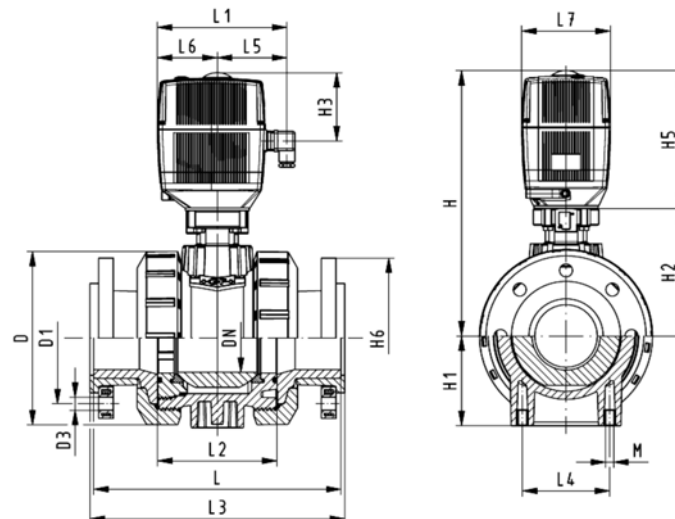
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
75	65	10	5000	199 134 509	199 134 519
90	80	10	7000	199 134 510	199 134 520
110	100	10	11000	199 134 511	199 134 521

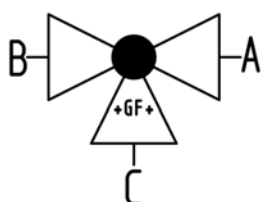
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
75	166	346	85	156	94	190	93	284	180	136	290	70	98	83	122
90	200	358	105	168	94	190	100	300	180	141	310	70	98	83	122
110	238	365	123	175	94	190	110	340	180	164	350	120	98	83	122

d [mm]	L8 [mm]
75	66
90	66
110	66



PVC-C metric

3-Way ball valve type 185 PVC-C Horizontal/L-port 100-230V With manual emergency override With solvent cement sockets metric



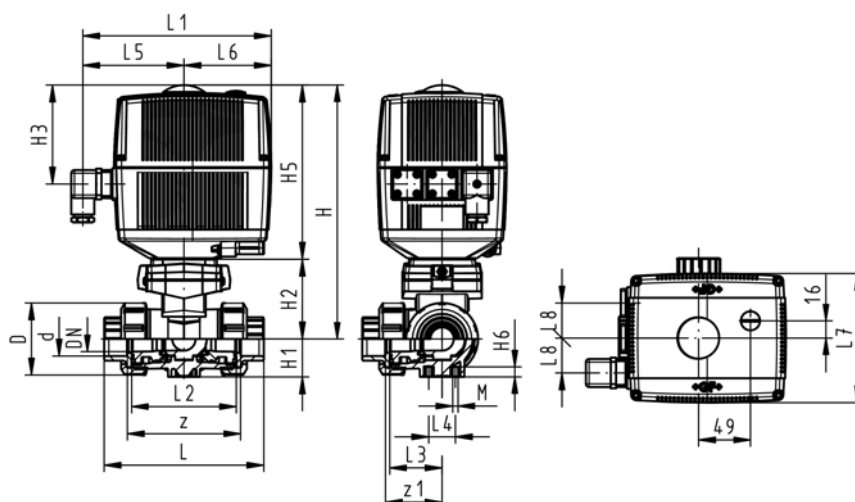
Model:

- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 185 102	199 185 112
20	15	10	75	199 185 103	199 185 113
25	20	10	150	199 185 104	199 185 114
32	25	10	280	199 185 105	199 185 115
40	32	10	480	199 185 106	199 185 116
50	40	10	620	199 185 107	199 185 117
63	50	10	1230	199 185 108	199 185 118

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	81	40
20	33	6	81	40
25	33	6	94	47
32	33	6	107	54
40	33	8	130	65
50	33	8	143	72
63	33	8	185	92



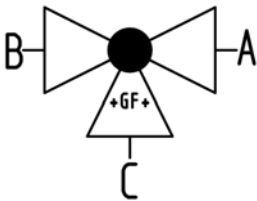
PVC-C metric

3-Way ball valve type 185 PVC-C

Horizontal/L-port 100-230V

With manual emergency override

With solvent cement spigots metric



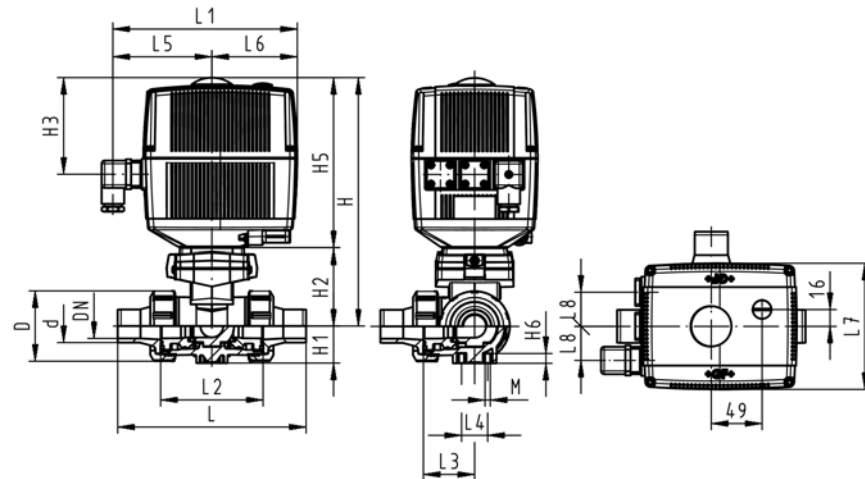
Model:

- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 185 082	199 185 092
20	15	10	75	199 185 083	199 185 093
25	20	10	150	199 185 084	199 185 094
32	25	10	280	199 185 085	199 185 095
40	32	10	480	199 185 086	199 185 096
50	40	10	620	199 185 087	199 185 097
63	50	10	1230	199 185 088	199 185 098

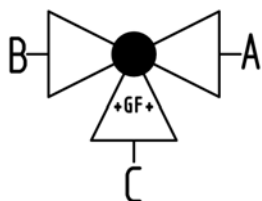
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	131	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	141	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	165	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	182	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	209	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	242	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	302	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PVC-C metric

3-Way ball valve type 185 PVC-C Horizontal/L-port 24V With manual emergency override With solvent cement sockets metric



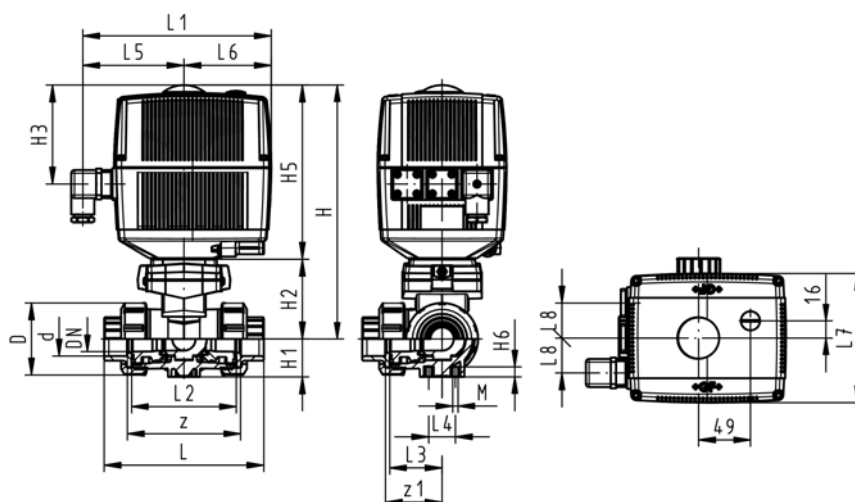
Model:

- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 185 262	199 185 272
20	15	10	75	199 185 263	199 185 273
25	20	10	150	199 185 264	199 185 274
32	25	10	280	199 185 265	199 185 275
40	32	10	480	199 185 266	199 185 276
50	40	10	620	199 185 267	199 185 277
63	50	10	1230	199 185 268	199 185 278

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	81	40
20	33	6	81	40
25	33	6	94	47
32	33	6	107	54
40	33	8	130	65
50	33	8	143	72
63	33	8	185	92



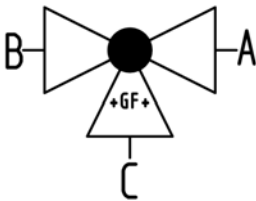
PVC-C metric

3-Way ball valve type 185 PVC-C

Horizontal/L-port 24V

With manual emergency override

With solvent cement spigots metric



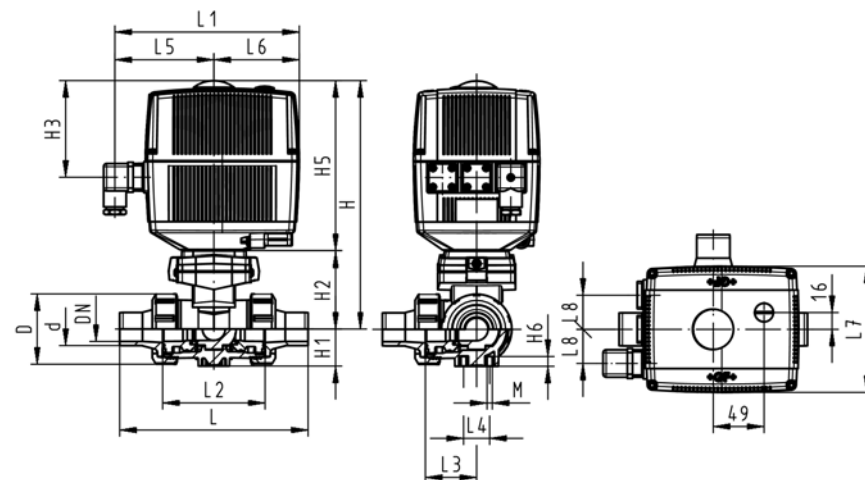
Model:

- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 185 282	199 185 292
20	15	10	75	199 185 283	199 185 293
25	20	10	150	199 185 284	199 185 294
32	25	10	280	199 185 285	199 185 295
40	32	10	480	199 185 286	199 185 296
50	40	10	620	199 185 287	199 185 297
63	50	10	1230	199 185 288	199 185 298

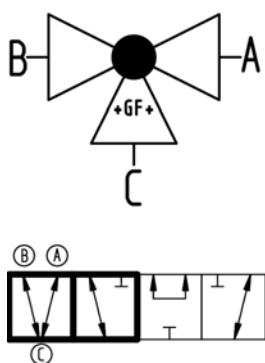
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	131	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	141	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	165	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	182	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	209	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	242	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	302	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PVC-C metric

3-Way ball valve type 185 PVC-C Horizontal/T-port 100-230V With manual emergency override With solvent cement sockets metric



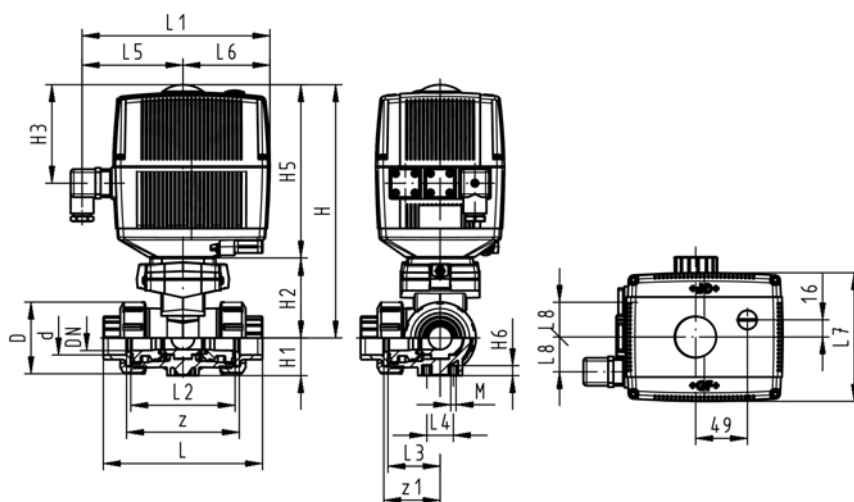
Model:

- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 185 142	199 185 152
20	15	10	200	199 185 143	199 185 153
25	20	10	470	199 185 144	199 185 154
32	25	10	793	199 185 145	199 185 155
40	32	10	1290	199 185 146	199 185 156
50	40	10	1910	199 185 147	199 185 157
63	50	10	3100	199 185 148	199 185 158

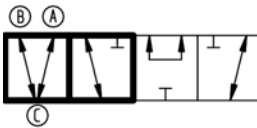
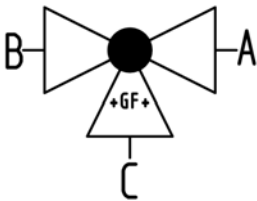
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	81	40
20	33	6	81	40
25	33	6	94	47
32	33	6	107	54
40	33	8	130	65
50	33	8	143	72
63	33	8	185	92



PVC-C metric

3-Way ball valve type 185 PVC-C Horizontal/T-port 100-230V With manual emergency override With solvent cement spigots metric



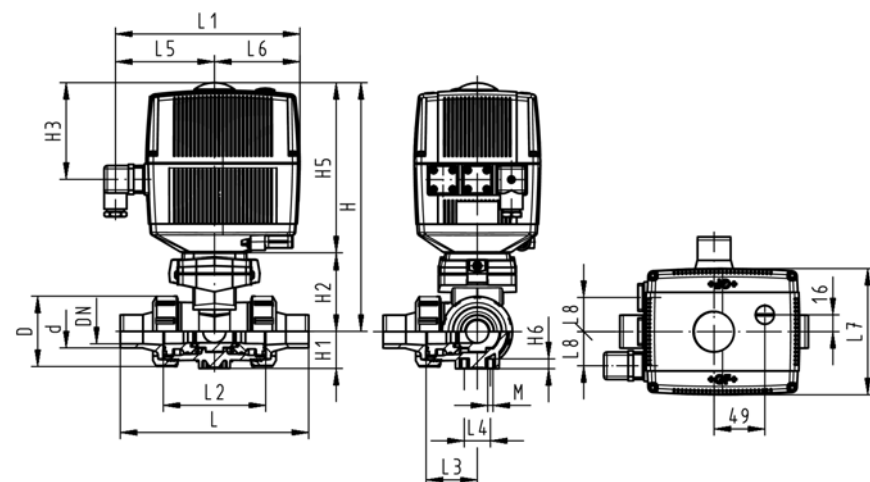
Model:

- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 185 122	199 185 132
20	15	10	200	199 185 123	199 185 133
25	20	10	470	199 185 124	199 185 134
32	25	10	793	199 185 125	199 185 135
40	32	10	1290	199 185 126	199 185 136
50	40	10	1910	199 185 127	199 185 137
63	50	10	3100	199 185 128	199 185 138

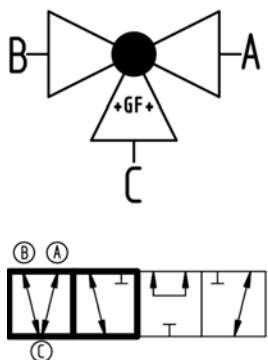
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	131	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	141	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	165	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	182	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	209	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	242	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	302	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PVC-C metric

3-Way ball valve type 185 PVC-C Horizontal/T-port 24V With manual emergency override With solvent cement sockets metric



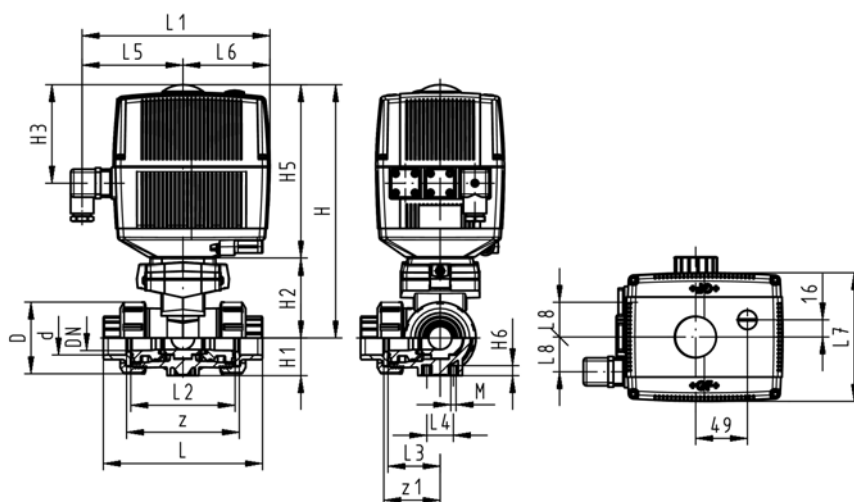
Model:

- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 185 322	199 185 332
20	15	10	200	199 185 323	199 185 333
25	20	10	470	199 185 324	199 185 334
32	25	10	793	199 185 325	199 185 335
40	32	10	1290	199 185 326	199 185 336
50	40	10	1910	199 185 327	199 185 337
63	50	10	3100	199 185 328	199 185 338

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	81	40
20	33	6	81	40
25	33	6	94	47
32	33	6	107	54
40	33	8	130	65
50	33	8	143	72
63	33	8	185	92



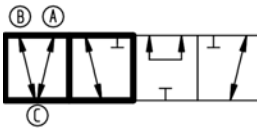
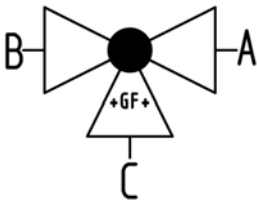
PVC-C metric

3-Way ball valve type 185 PVC-C

Horizontal/T-port 24V

With manual emergency override

With solvent cement spigots metric



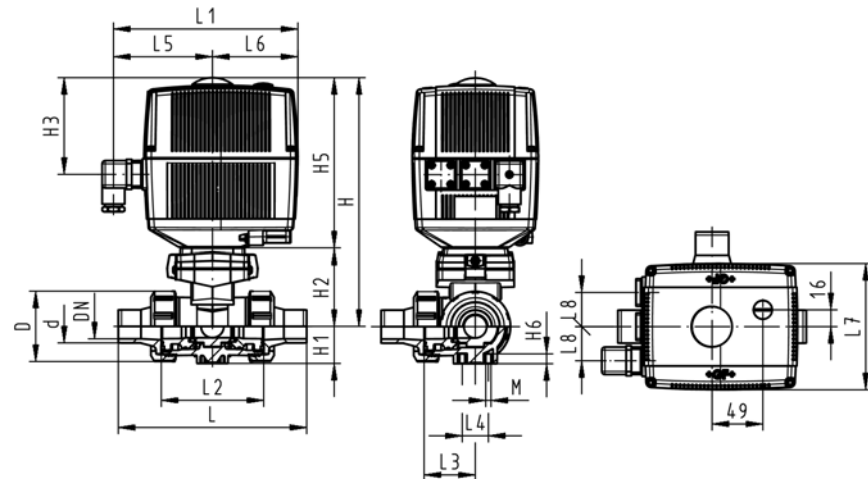
Model:

- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 185 302	199 185 312
20	15	10	200	199 185 303	199 185 313
25	20	10	470	199 185 304	199 185 314
32	25	10	793	199 185 305	199 185 315
40	32	10	1290	199 185 306	199 185 316
50	40	10	1910	199 185 307	199 185 317
63	50	10	3100	199 185 308	199 185 318

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	131	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	141	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	165	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	182	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	209	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	242	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	302	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PVC-C metric

Ball valves pneumatic

Ball valve type 230 PVC-C FC (fail safe to close)

With manual override

With solvent cement sockets metric

Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time $90^\circ <$ 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

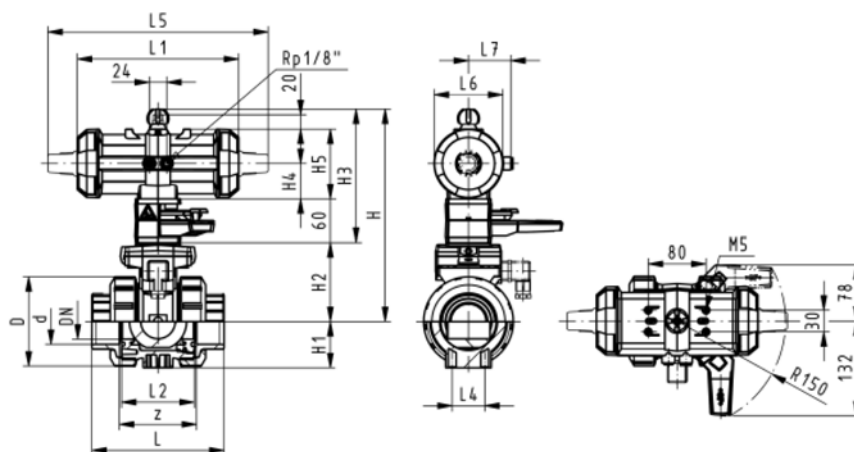
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 402	199 230 412
20	15	10	185	199 230 403	199 230 413
25	20	10	350	199 230 404	199 230 414
32	25	10	700	199 230 405	199 230 415
40	32	10	1000	199 230 406	199 230 416
50	40	10	1600	199 230 407	199 230 417
63	50	10	3100	199 230 408	199 230 418

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107





DN10/15 - 50

PVC-C metric

Ball valve type 230 PVC-C FC (fail safe to close)

With manual override

With solvent cement spigots metric

Model:

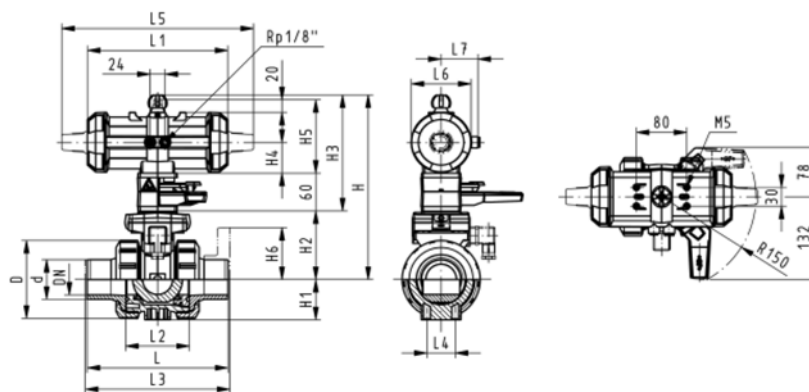
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time $90^\circ \leq$ 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 422	199 230 432
20	15	10	185	199 230 423	199 230 433
25	20	10	350	199 230 424	199 230 434
32	25	10	700	199 230 425	199 230 435
40	32	10	1000	199 230 426	199 230 436
50	40	10	1600	199 230 427	199 230 437
63	50	10	3100	199 230 428	199 230 438

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	114	194	56	130	25	261	76	48
20	50	159	27	62	168	40	77	124	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	144	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	154	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	174	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	194	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	224	224	101	230	45	305	95	59



PVC-C metric

Ball valve type 230 PVC-C FC (fail safe to close) With manual override With threaded sockets Rp



DN10/15 - 50

Model:

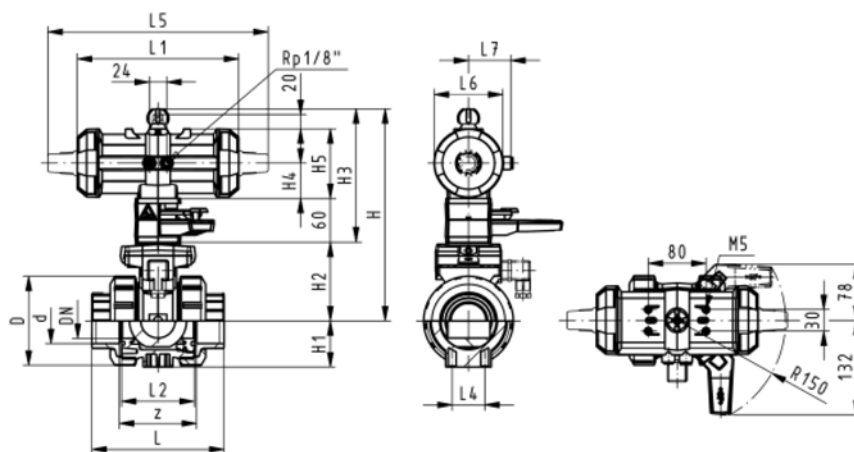
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 230 752	199 230 772
1/2	15	10	185	199 230 753	199 230 773
3/4	20	10	350	199 230 754	199 230 774
1	25	10	700	199 230 755	199 230 775
1 1/4	32	10	1000	199 230 756	199 230 776
1 1/2	40	10	1600	199 230 757	199 230 777
2	50	10	3100	199 230 758	199 230 778

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
1	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



PVC-C metric

Ball valve type 230 PVC-C FO (Fail safe to open) With manual override With solvent cement sockets metric



DN10/15 - 50

Model:

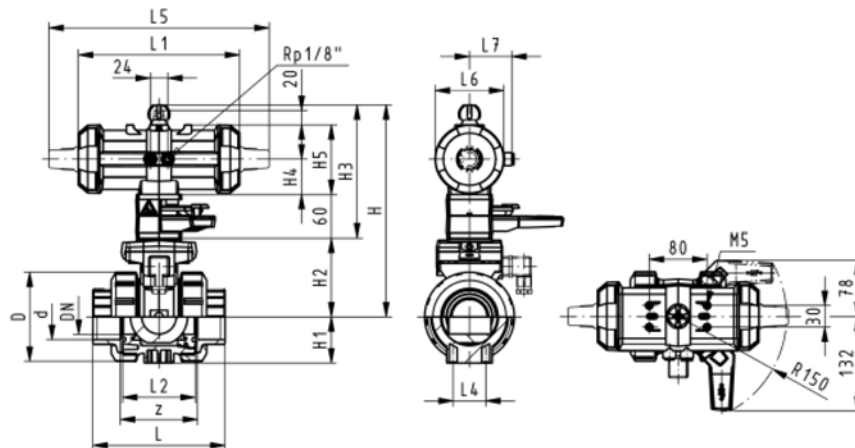
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time $90^\circ \leq$ 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 442	199 230 452
20	15	10	185	199 230 443	199 230 453
25	20	10	350	199 230 444	199 230 454
32	25	10	700	199 230 445	199 230 455
40	32	10	1000	199 230 446	199 230 456
50	40	10	1600	199 230 447	199 230 457
63	50	10	3100	199 230 448	199 230 458

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



PVC-C metric

Ball valve type 230 PVC-C FO (Fail safe to open)

With manual override

With solvent cement spigots metric

Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

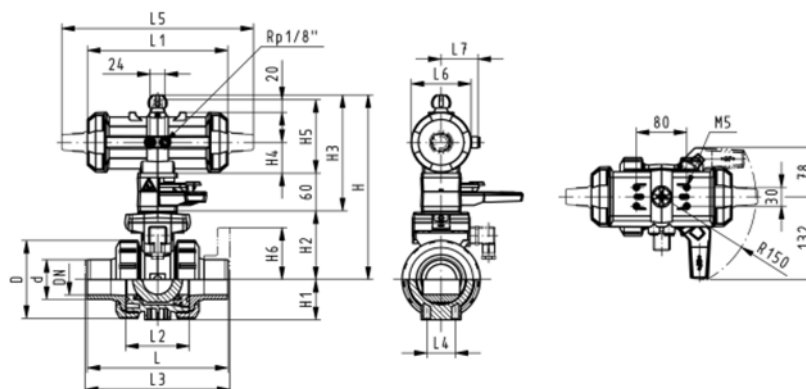
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 462	199 230 472
20	15	10	185	199 230 463	199 230 473
25	20	10	350	199 230 464	199 230 474
32	25	10	700	199 230 465	199 230 475
40	32	10	1000	199 230 466	199 230 476
50	40	10	1600	199 230 467	199 230 477
63	50	10	3100	199 230 468	199 230 478

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	114	194	56	130	25	261	76	48
20	50	159	27	62	168	40	77	124	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	144	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	154	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	174	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	194	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	224	224	101	230	45	305	95	59



PVC-C metric

Ball valve type 230 PVC-C FO (Fail safe to open) With manual override With threaded sockets Rp



DN10/15 - 50

Model:

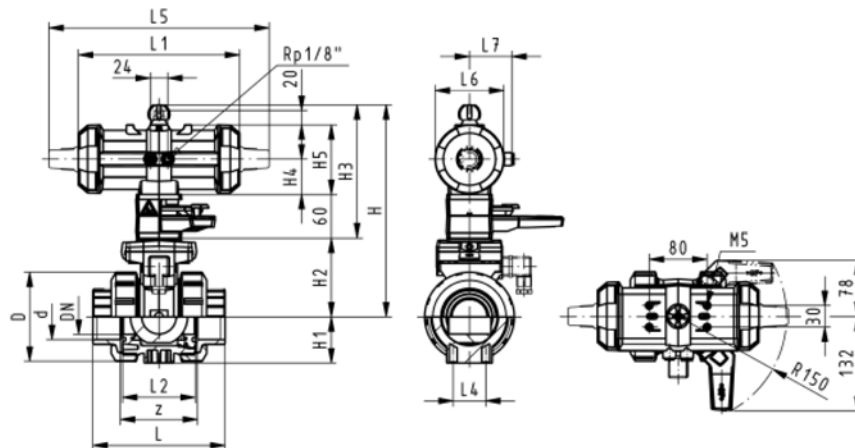
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time $90^\circ \leq$ 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 230 792	199 230 812
1/2	15	10	185	199 230 793	199 230 813
3/4	20	10	350	199 230 794	199 230 814
1	25	10	700	199 230 795	199 230 815
1 1/4	32	10	1000	199 230 796	199 230 816
1 1/2	40	10	1600	199 230 797	199 230 817
2	50	10	3100	199 230 798	199 230 818

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
1	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



PVC-C metric

Ball valve type 230 PVC-C DA (Double acting)

With manual override

With solvent cement sockets metric

Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

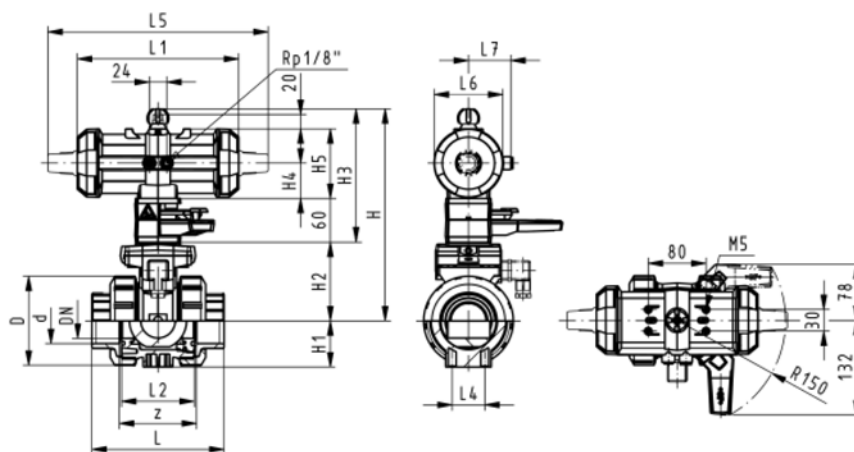
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 482	199 230 492
20	15	10	185	199 230 483	199 230 493
25	20	10	350	199 230 484	199 230 494
32	25	10	700	199 230 485	199 230 495
40	32	10	1000	199 230 486	199 230 496
50	40	10	1600	199 230 487	199 230 497
63	50	10	3100	199 230 488	199 230 498

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107





DN10/15 - 50

PVC-C metric

Ball valve type 230 PVC-C DA (Double acting)

With manual override

With solvent cement spigots metric

Model:

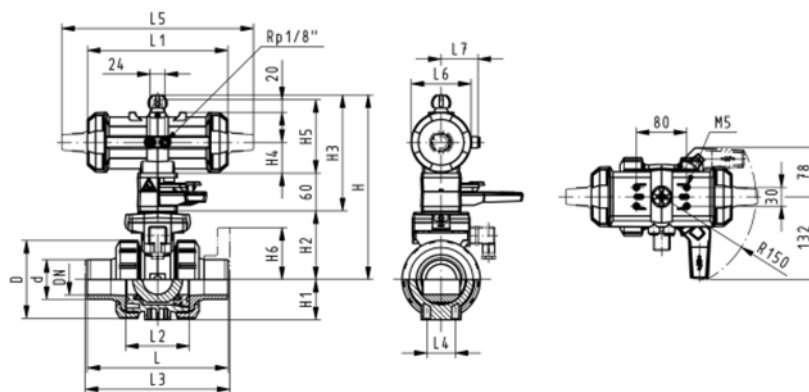
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time $90^\circ \leq$ 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 502	199 230 512
20	15	10	185	199 230 503	199 230 513
25	20	10	350	199 230 504	199 230 514
32	25	10	700	199 230 505	199 230 515
40	32	10	1000	199 230 506	199 230 516
50	40	10	1600	199 230 507	199 230 517
63	50	10	3100	199 230 508	199 230 518

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	114	194	56	130	25	261	76	48
20	50	159	27	62	168	40	77	124	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	144	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	154	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	174	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	194	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	224	224	101	230	45	305	95	59



PVC-C metric

Ball valve type 230 PVC-C DA (Double acting)

With manual override

With threaded sockets Rp

Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

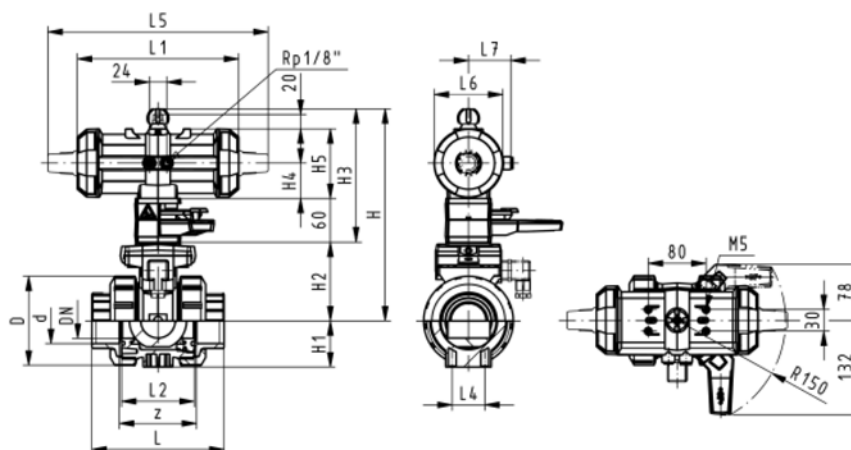
- Individual configuration of the valve (see diagram)



DN10/15 - 50

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 230 832	199 230 852
1/2	15	10	185	199 230 833	199 230 853
3/4	20	10	350	199 230 834	199 230 854
1	25	10	700	199 230 835	199 230 855
1 1/4	32	10	1000	199 230 836	199 230 856
1 1/2	40	10	1600	199 230 837	199 230 857
2	50	10	3100	199 230 838	199 230 858

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
1	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



PVC-C metric

Ball valve type 230 PVC-C FC (Fail safe to close) Without manual override With solvent cement sockets metric

Model:

- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

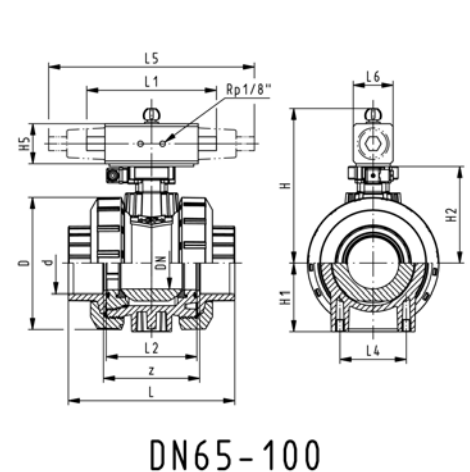
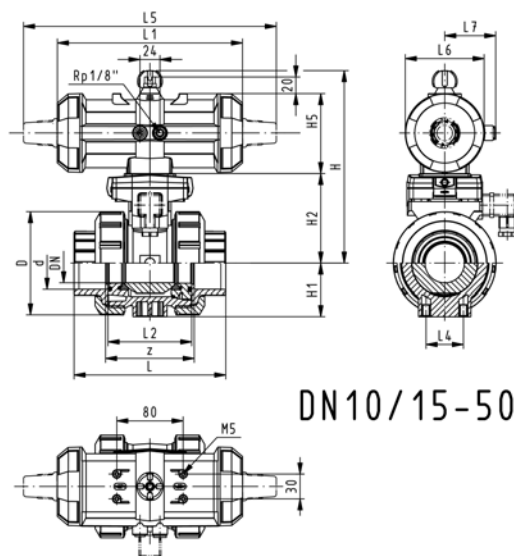


DN10/15 - 50



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 522	199 230 532
20	15	10	185	199 230 523	199 230 533
25	20	10	350	199 230 524	199 230 534
32	25	10	700	199 230 525	199 230 535
40	32	10	1000	199 230 526	199 230 536
50	40	10	1600	199 230 527	199 230 537
63	50	10	3100	199 230 528	199 230 538
75	65	10	5000	199 230 529	199 230 539
90	80	10	7000	199 230 530	199 230 540
110	100	10	11000	199 230 531	199 230 541

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	77	92	194	56	25	261	76	48	64
20	50	159	27	62	77	95	194	56	25	261	76	48	64
25	58	168	30	71	77	110	194	65	25	261	76	48	72
32	68	168	36	71	77	123	194	71	25	261	76	48	79
40	84	202	44	84	99	146	224	85	45	305	95	59	94
50	97	202	51	84	99	157	224	89	45	305	95	59	95
63	124	225	64	106	99	183	224	101	45	305	95	59	107
75	166	262	85	156	70	233		136	70	276	65		144
90	200	281	105	168	78	254		141	70	341	72		151
110	238	292	123	175	86	301		164	120	369	80		174



PVC-C metric

Ball valve type 230 PVC-C FC (Fail safe to close)

Without manual override

With solvent cement spigots metric

Model:

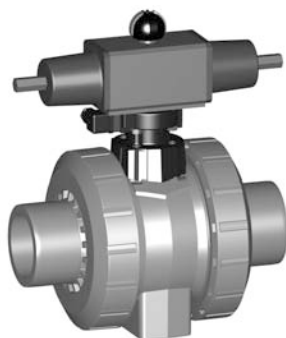
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

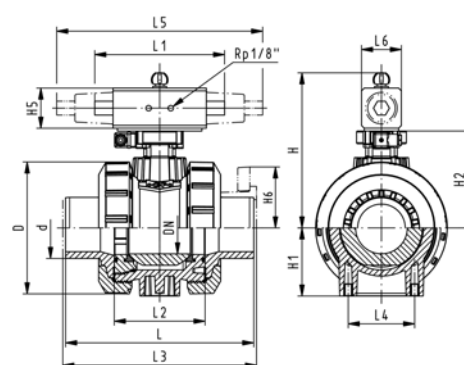
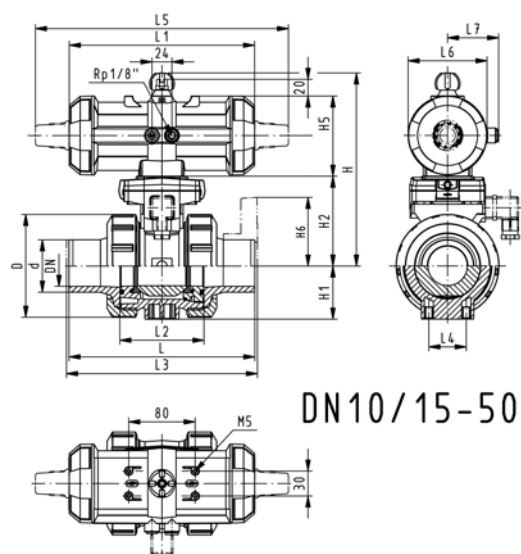


DN10/15 - 50



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 542	199 230 552
20	15	10	185	199 230 543	199 230 553
25	20	10	350	199 230 544	199 230 554
32	25	10	700	199 230 545	199 230 555
40	32	10	1000	199 230 546	199 230 556
50	40	10	1600	199 230 547	199 230 557
63	50	10	3100	199 230 548	199 230 558
75	65	10	5000	199 230 549	199 230 559
90	80	10	7000	199 230 550	199 230 560
110	100	10	11000	199 230 551	199 230 561

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	77	114	194	56	0	25	261	76	48
20	50	159	27	62	77	124	194	56	130	25	261	76	48
25	58	168	30	71	77	144	194	65	150	25	261	76	48
32	68	168	36	71	77	154	194	71	160	25	261	76	48
40	84	202	44	84	99	174	224	85	180	45	305	95	59
50	97	202	51	84	99	194	224	89	200	45	305	95	59
63	124	225	64	106	99	224	224	101	230	45	305	95	59
75	166	262	85	156	70	284		136	290	70	276	65	
90	200	281	105	168	78	300		141	310	70	341	72	
110	238	292	123	175	86	340		164	350	120	369	80	



PVC-C metric

Ball valve type 230 PVC-C FC (Fail safe to close) Without manual override With threaded sockets Rp

Model:

- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

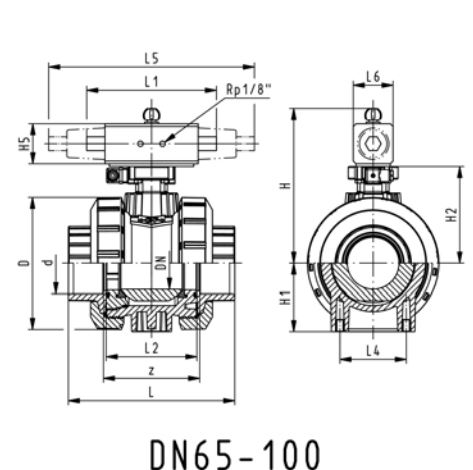
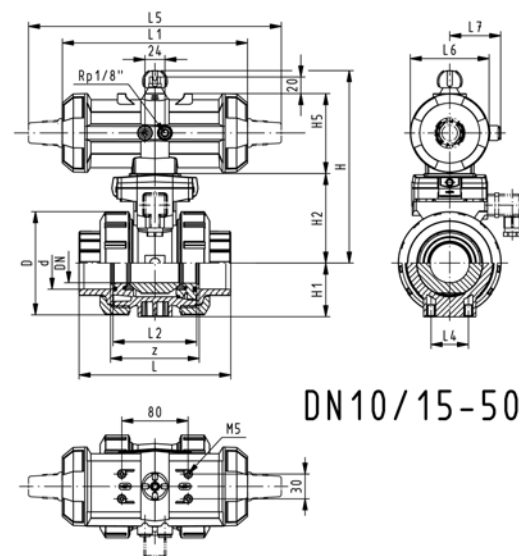
Option:

- Individual configuration of the valve (see diagram)



Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 230 872	199 230 892
1/2	15	10	185	199 230 873	199 230 893
3/4	20	10	350	199 230 874	199 230 894
1	25	10	700	199 230 875	199 230 895
1 1/4	32	10	1000	199 230 876	199 230 896
1 1/2	40	10	1600	199 230 877	199 230 897
2	50	10	3100	199 230 878	199 230 898
2 1/2	65	10	5000	199 230 879	199 230 899
3	80	10	7000	199 230 880	199 230 900
4	100	10	11000	199 230 881	199 230 901

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	77	110	194	65	25	261	76	48	72
1	68	168	36	71	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	99	157	224	89	45	305	95	59	95
2	124	225	64	106	99	183	224	101	45	305	95	59	107
2 1/2	166	262	85	156	70	233		136	70	276	65		144
3	200	281	105	168	78	254		141	70	341	72		151
4	238	292	123	175	86	301		164	120	369	80		174



PVC-C metric

Ball valve type 230 PVC-C FC (Fail safe to close)

Without manual override

With backing flanges PP-st metric



Model:

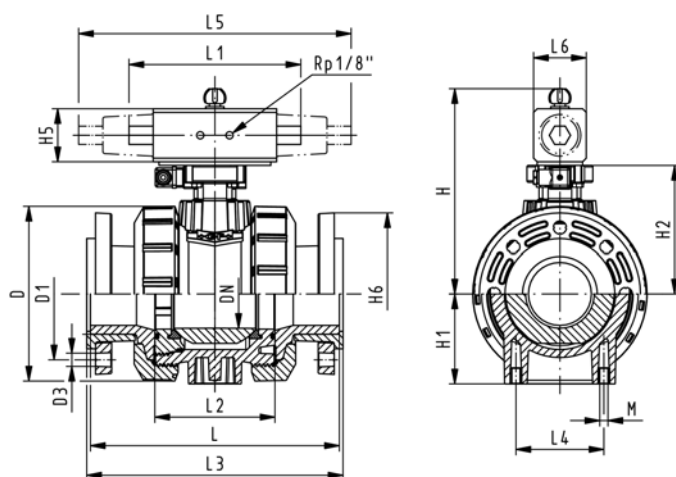
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
75	65	10	5000	199 234 609	199 234 619	
90	80	10	7000	199 234 610	199 234 620	
110	100	10	11000	199 234 611	199 234 621	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	
75	166	262	85	156	70	93	284	136	290	70	276	65	
90	200	281	105	168	78	100	300	141	310	70	341	72	
110	238	292	123	175	86	110	340	164	350	120	369	80	



PVC-C metric

Ball valve type 230 PVC-C FO (Fail safe to open) Without manual override With solvent cement sockets metric

Model:

- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

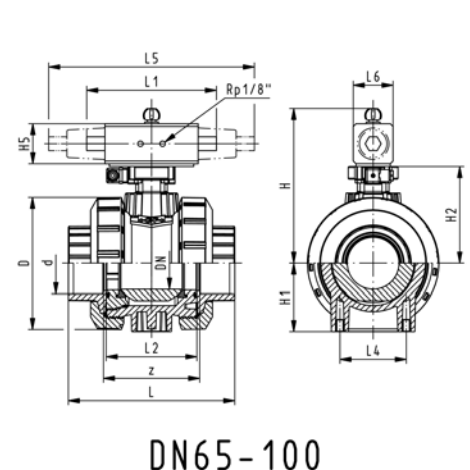
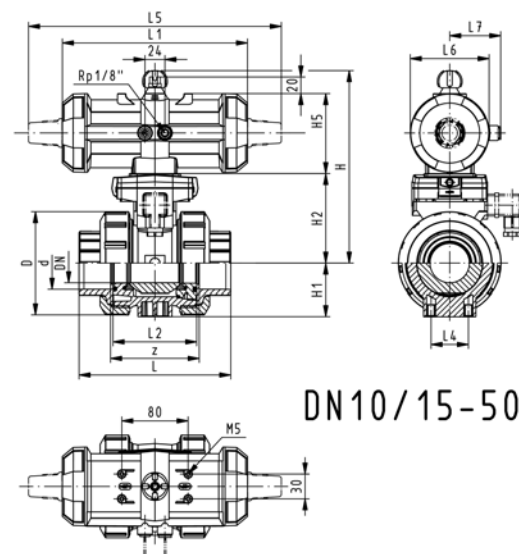
Option:

- Individual configuration of the valve (see diagram)



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 562	199 230 572
20	15	10	185	199 230 563	199 230 573
25	20	10	350	199 230 564	199 230 574
32	25	10	700	199 230 565	199 230 575
40	32	10	1000	199 230 566	199 230 576
50	40	10	1600	199 230 567	199 230 577
63	50	10	3100	199 230 568	199 230 578
75	65	10	5000	199 230 569	199 230 579
90	80	10	7000	199 230 570	199 230 580
110	100	10	11000	199 230 571	199 230 581

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	77	92	194	56	25	261	76	48	64
20	50	159	27	62	77	95	194	56	25	261	76	48	64
25	58	168	30	71	77	110	194	65	25	261	76	48	72
32	68	168	36	71	77	123	194	71	25	261	76	48	79
40	84	202	44	84	99	146	224	85	45	305	95	59	94
50	97	202	51	84	99	157	224	89	45	305	95	59	95
63	124	225	64	106	99	183	224	101	45	305	95	59	107
75	166	262	85	156	70	233		136	70	276	65		144
90	200	281	105	168	78	254		141	70	341	72		151
110	238	292	123	175	86	301		164	120	369	80		174



PVC-C metric

Ball valve type 230 PVC-C FO (Fail safe to open)

Without manual override

With solvent cement spigots metric

Model:

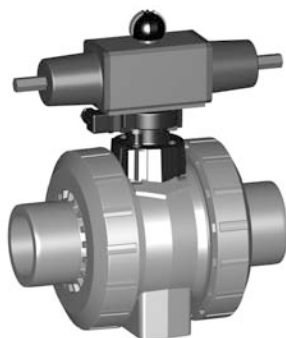
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°< 1-2 s

Option:

- Individual configuration of the valve (see diagram)

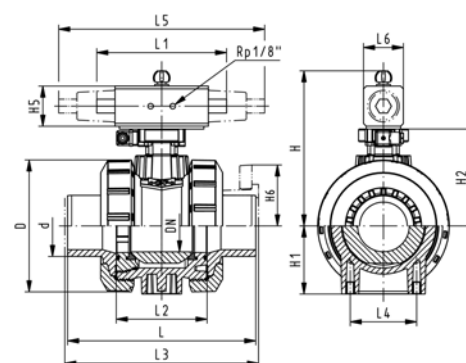
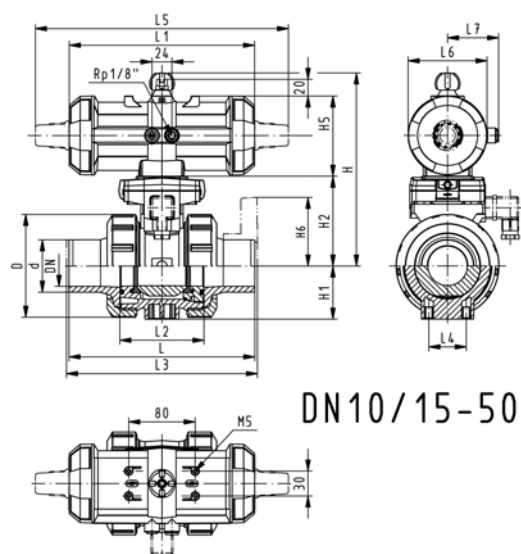


DN10/15 - 50



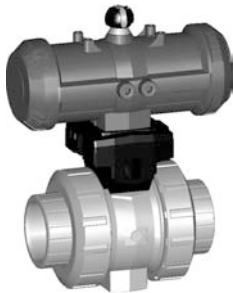
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 582	199 230 592
20	15	10	185	199 230 583	199 230 593
25	20	10	350	199 230 584	199 230 594
32	25	10	700	199 230 585	199 230 595
40	32	10	1000	199 230 586	199 230 596
50	40	10	1600	199 230 587	199 230 597
63	50	10	3100	199 230 588	199 230 598
75	65	10	5000	199 230 589	199 230 599
90	80	10	7000	199 230 590	199 230 600
110	100	10	11000	199 230 591	199 230 601

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	77	114	194	56	130	25	261	76	48
20	50	159	27	62	77	124	194	56	130	25	261	76	48
25	58	168	30	71	77	144	194	65	150	25	261	76	48
32	68	168	36	71	77	154	194	71	160	25	261	76	48
40	84	202	44	84	99	174	224	85	180	45	305	95	59
50	97	202	51	84	99	194	224	89	200	45	305	95	59
63	124	225	64	106	99	224	224	101	230	45	305	95	59
75	166	262	85	156	70	284		136	290	70	276	65	
90	200	281	105	168	78	300		141	310	70	341	72	
110	238	292	123	175	86	340		164	350	120	369	80	



PVC-C metric

Ball valve type 230 PVC-C FO (Fail safe to open) Without manual override With threaded sockets Rp



DN10/15 - 50



Model:

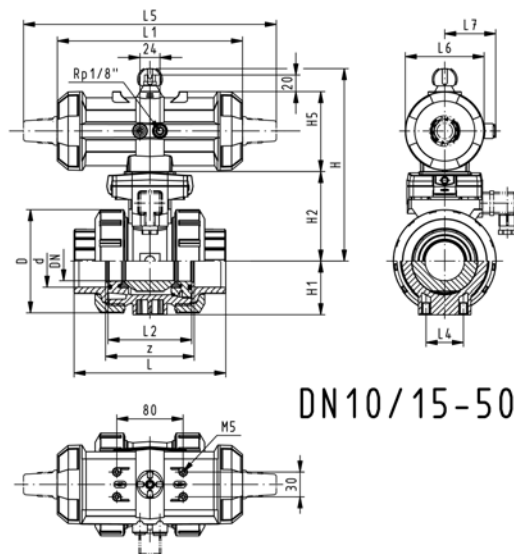
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

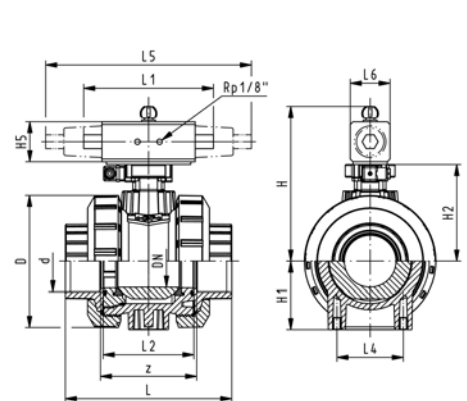
- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 230 912	199 230 932
1/2	15	10	185	199 230 913	199 230 933
3/4	20	10	350	199 230 914	199 230 934
1	25	10	700	199 230 915	199 230 935
1 1/4	32	10	1000	199 230 916	199 230 936
1 1/2	40	10	1600	199 230 917	199 230 937
2	50	10	3100	199 230 918	199 230 938
2 1/2	65	10	5000	199 230 919	199 230 939
3	80	10	7000	199 230 920	199 230 940
4	100	10	11000	199 230 921	199 230 941

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	77	110	194	65	25	261	76	48	72
1	68	168	36	71	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	99	157	224	89	45	305	95	59	95
2	124	225	64	106	99	183	224	101	45	305	95	59	107
2 1/2	166	262	85	156	70	233		136	70	276	65		144
3	200	281	105	168	78	254		141	70	341	72		151
4	238	292	123	175	86	301		164	120	369	80		174



DN10/15-50



DN65-100

PVC-C metric

Ball valve type 230 PVC-C FO (Fail safe to open)

Without manual override

With backing flanges PP-st metric



Model:

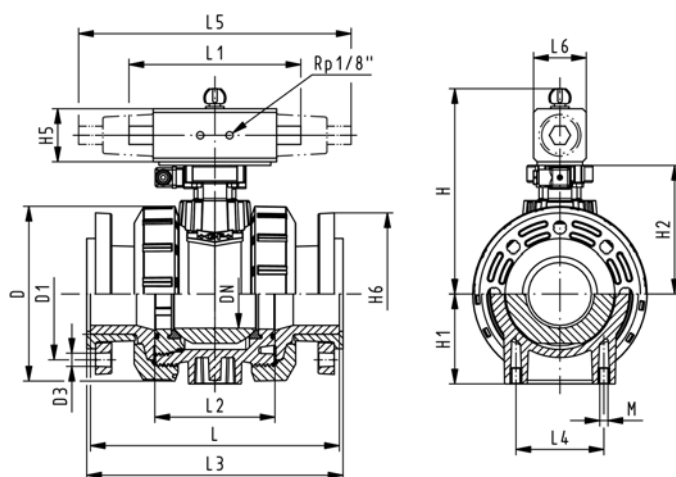
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)

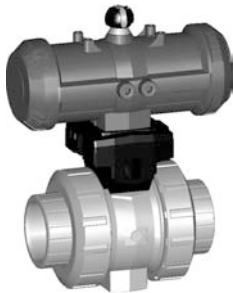
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
75	65	10	5000	199 234 629	199 234 639
90	80	10	7000	199 234 630	199 234 640
110	100	10	11000	199 234 631	199 234 641

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
75	166	262	85	156	70	93	284	136	290	70	276	65
90	200	281	105	168	78	100	300	141	310	70	341	72
110	238	292	123	175	86	110	340	164	350	120	369	80



PVC-C metric

Ball valve type 230 PVC-C DA (Double acting) Without manual override With solvent cement sockets metric



DN10/15 - 50



Model:

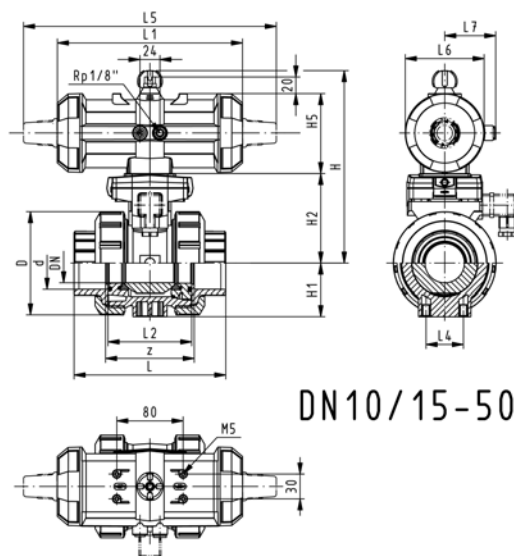
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

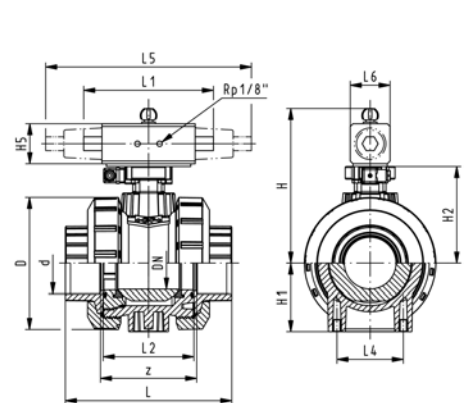
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 602	199 230 612
20	15	10	185	199 230 603	199 230 613
25	20	10	350	199 230 604	199 230 614
32	25	10	700	199 230 605	199 230 615
40	32	10	1000	199 230 606	199 230 616
50	40	10	1600	199 230 607	199 230 617
63	50	10	3100	199 230 608	199 230 618
75	65	10	5000	199 230 609	199 230 619
90	80	10	7000	199 230 610	199 230 620
110	100	10	11000	199 230 611	199 230 621

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	77	92	194	56	25	261	76	48	64
20	50	159	27	62	77	95	194	56	25	261	76	48	64
25	58	168	30	71	77	110	194	65	25	261	76	48	72
32	68	168	36	71	77	123	194	71	25	261	76	48	79
40	84	202	44	84	99	146	224	85	45	305	95	59	94
50	97	202	51	84	99	157	224	89	45	305	95	59	95
63	124	225	64	106	99	183	224	101	45	305	95	59	107
75	166	257	85	156	66	233	144	136	70		60		144
90	200	274	105	168	70	254	152	141	70		65		151
110	238	273	123	175	78	301	169	164	120		72		174



DN10/15-50



DN65-100

PVC-C metric

Ball valve type 230 PVC-C DA (Double acting)

Without manual override

With solvent cement spigots metric

Model:

- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

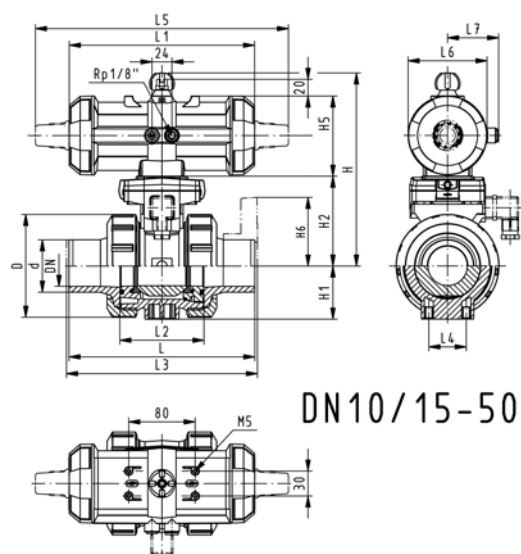


DN10/15 - 50

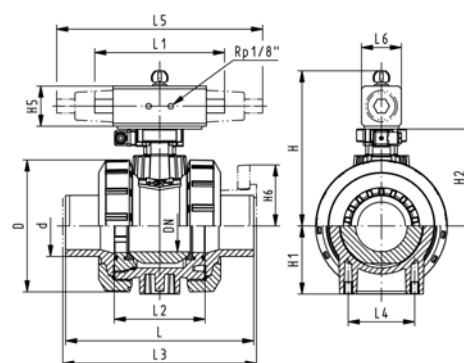


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 230 622	199 230 632
20	15	10	185	199 230 623	199 230 633
25	20	10	350	199 230 624	199 230 634
32	25	10	700	199 230 625	199 230 635
40	32	10	1000	199 230 626	199 230 636
50	40	10	1600	199 230 627	199 230 637
63	50	10	3100	199 230 628	199 230 638
75	65	10	5000	199 230 629	199 230 639
90	80	10	7000	199 230 630	199 230 640
110	100	10	11000	199 230 631	199 230 641

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	77	114	194	56	130	25	261	76	48
20	50	159	27	62	77	124	194	56	130	25	261	76	48
25	58	168	30	71	77	144	194	65	150	25	261	76	48
32	68	168	36	71	77	154	194	71	160	25	261	76	48
40	84	202	44	84	99	174	224	85	180	45	305	95	59
50	97	202	51	84	99	194	224	89	200	45	305	95	59
63	124	225	64	106	99	224	224	101	230	45	305	95	59
75	166	257	85	156	66	284	144	136	290	70		60	
90	200	274	105	168	70	300	152	141	310	70		65	
110	238	273	123	175	78	340	169	164	350	120		72	



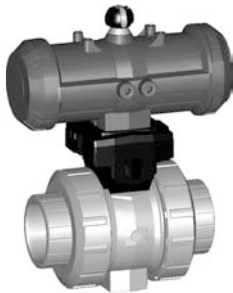
DN10/15-50



DN65-100

PVC-C metric

Ball valve type 230 PVC-C DA (Double acting) Without manual override With threaded sockets Rp



DN10/15 - 50



Model:

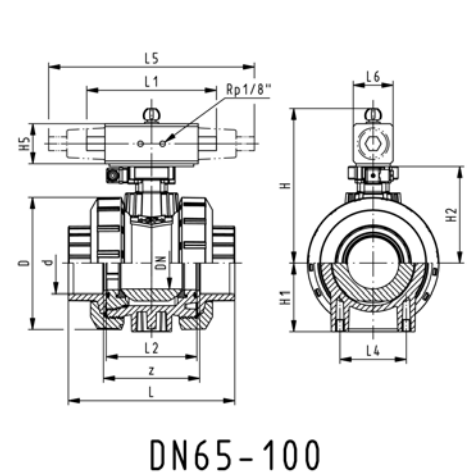
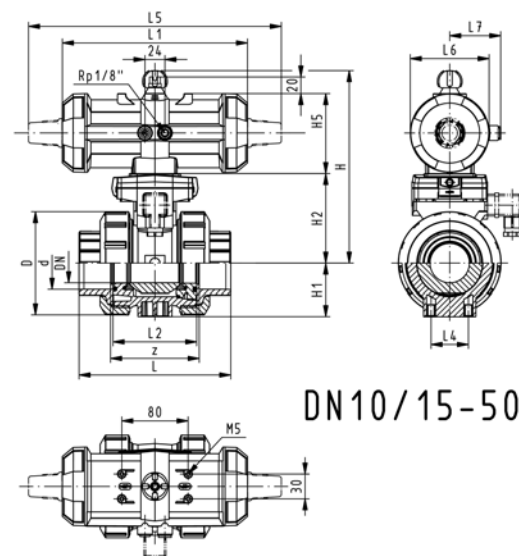
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	70	199 230 942	199 230 952
1/2	15	10	185	199 230 943	199 230 953
3/4	20	10	350	199 230 944	199 230 954
1	25	10	700	199 230 945	199 230 955
1 1/4	32	10	1000	199 230 946	199 230 956
1 1/2	40	10	1600	199 230 947	199 230 957
2	50	10	3100	199 230 948	199 230 958
2 1/2	65	10	5000	199 230 949	199 230 959
3	80	10	7000	199 230 950	199 230 960
4	100	10	11000	199 230 951	199 230 961

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	77	110	194	65	25	261	76	48	72
1	68	168	36	71	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	99	157	224	89	45	305	95	59	95
2	124	225	64	106	99	183	224	101	45	305	95	59	107
2 1/2	166	257	85	156	66	233	144	136	70		60		144
3	200	274	105	168	70	254	152	141	70		65		151
4	238	273	123	175	78	301	169	164	120		72		174



PVC-C metric

Ball valve type 230 PVC-C DA (Double acting)

Without manual override

With backing flanges PP-st metric

Model:

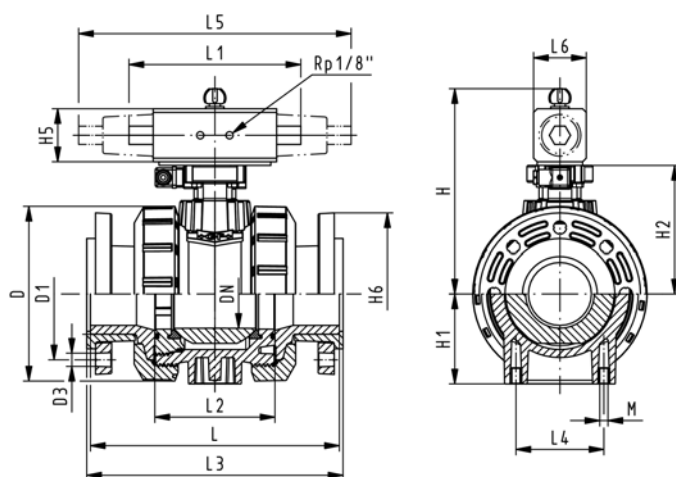
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
75	65	10	5000	199 234 649	199 234 659
90	80	10	7000	199 234 650	199 234 660
110	100	10	11000	199 234 651	199 234 661

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L6 [mm]
75	166	257	85	156	66	93	284	144	136	290	70	60
90	200	274	105	168	70	100	300	152	141	310	70	65
110	238	273	123	175	78	110	340	169	164	350	120	72



PVC-C metric

3-Way ball valve type 285 PVC-C

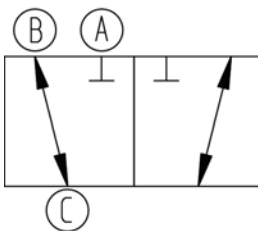
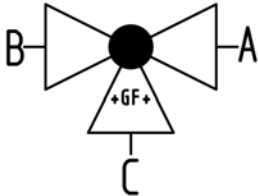
Horizontal/L-port

Without manual override

With solvent cement sockets metric

Model:

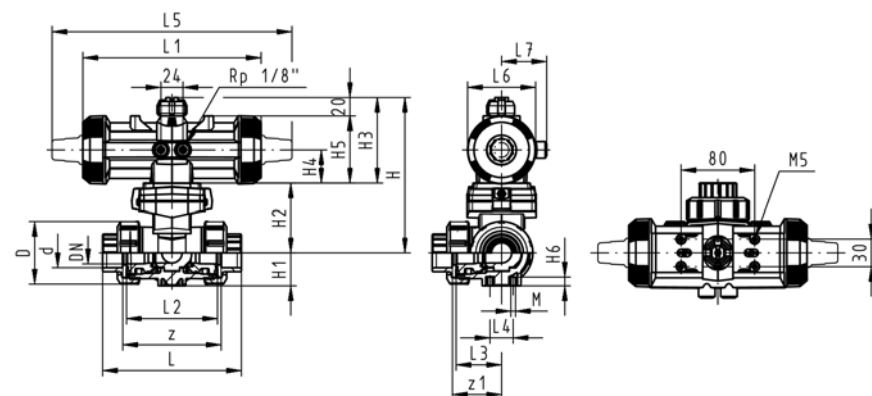
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 285 102	199 285 112
20	15	10	75	199 285 103	199 285 113
25	20	10	150	199 285 104	199 285 114
32	25	10	280	199 285 105	199 285 115
40	32	10	480	199 285 106	199 285 116
50	40	10	620	199 285 107	199 285 117
63	50	10	1230	199 285 108	199 285 118

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	81	40
20	48	6	81	40
25	48	6	94	47
32	48	6	107	54
40	59	8	130	65
50	59	8	143	72
63	59	8	185	92



PVC-C metric

3-Way ball valve type 285 PVC-C

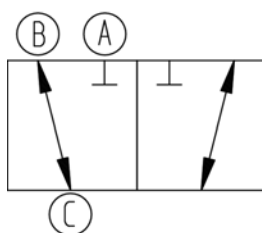
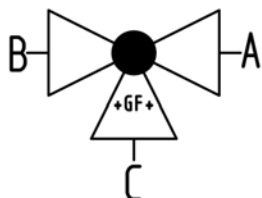
Horizontal/L-port

Without manual override

With solvent cement spigots metric

Model:

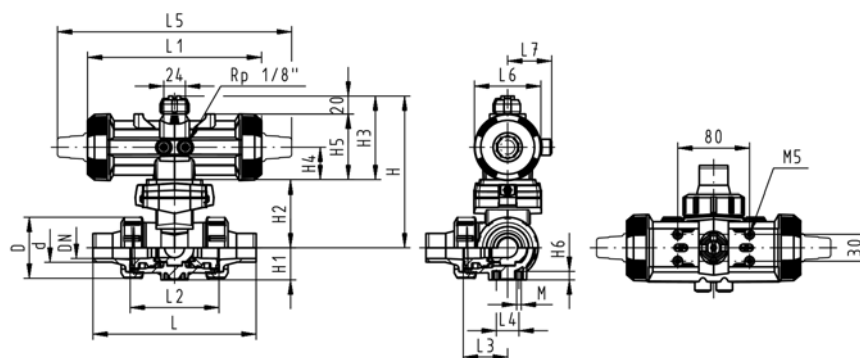
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 285 082	199 285 092
20	15	10	75	199 285 083	199 285 093
25	20	10	150	199 285 084	199 285 094
32	25	10	280	199 285 085	199 285 095
40	32	10	480	199 285 086	199 285 096
50	40	10	620	199 285 087	199 285 097
63	50	10	1230	199 285 088	199 285 098

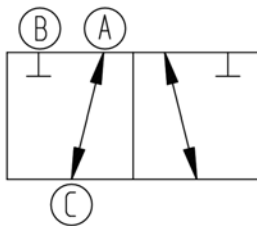
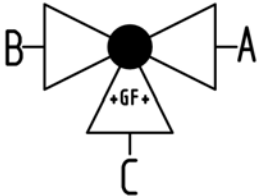
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	131	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	141	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	165	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	182	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	209	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	242	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	302	224	179	89	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PVC-C metric

3-Way ball valve type 285 PVC-C Horizontal/L-port DA (Double acting) Without manual override With solvent cement sockets metric



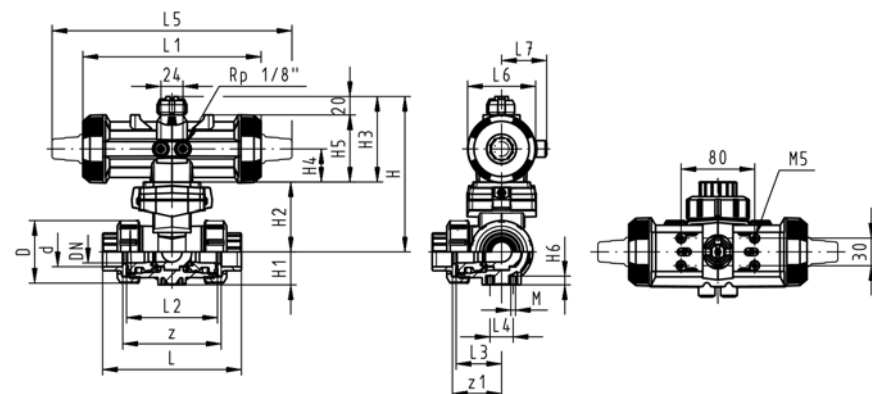
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 285 282	199 285 292
20	15	10	75	199 285 283	199 285 293
25	20	10	150	199 285 284	199 285 294
32	25	10	280	199 285 285	199 285 295
40	32	10	480	199 285 286	199 285 296
50	40	10	620	199 285 287	199 285 297
63	50	10	1230	199 285 288	199 285 298

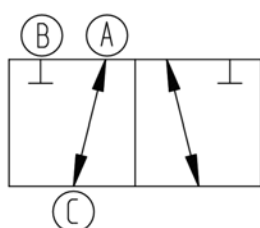
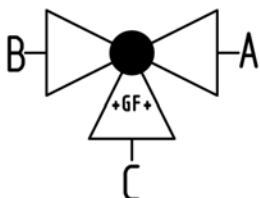
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	81	40
20	48	6	81	40
25	48	6	94	47
32	48	6	107	54
40	59	8	130	65
50	59	8	143	72
63	59	8	185	92



PVC-C metric

3-Way ball valve type 285 PVC-C Horizontal/L-port DA (Double acting) Without manual override With solvent cement spigots metric



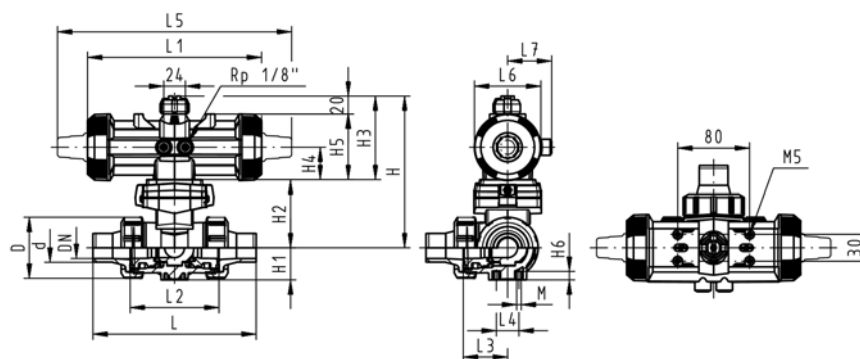
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 285 262	199 285 272
20	15	10	75	199 285 263	199 285 273
25	20	10	150	199 285 264	199 285 274
32	25	10	280	199 285 265	199 285 275
40	32	10	480	199 285 266	199 285 276
50	40	10	620	199 285 267	199 285 277
63	50	10	1230	199 285 268	199 285 278

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	131	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	141	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	165	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	182	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	209	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	242	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	302	224	179	89	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PVC-C metric

3-Way ball valve type 285 PVC-C

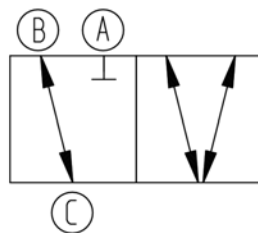
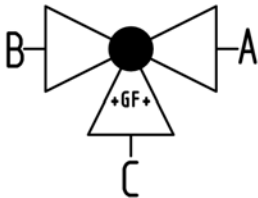
Horizontal/T-port

Without manual override

With solvent cement sockets metric

Model:

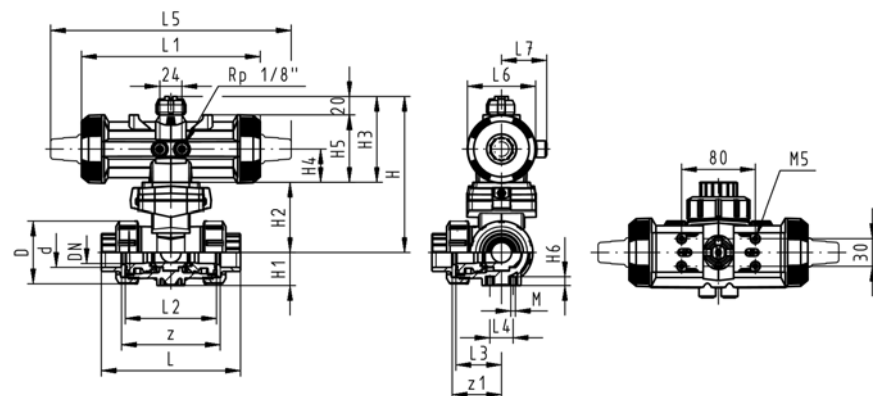
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 285 142	199 285 152
20	15	10	200	199 285 143	199 285 153
25	20	10	470	199 285 144	199 285 154
32	25	10	793	199 285 145	199 285 155
40	32	10	1290	199 285 146	199 285 156
50	40	10	1910	199 285 147	199 285 157
63	50	10	3100	199 285 148	199 285 158

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	81	40
20	48	6	81	40
25	48	6	94	47
32	48	6	107	54
40	59	8	130	65
50	59	8	143	72
63	59	8	185	92



PVC-C metric

3-Way ball valve type 285 PVC-C

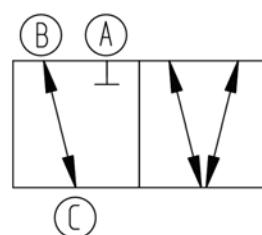
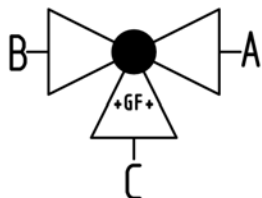
Horizontal/T-port

Without manual override

With solvent cement spigots metric

Model:

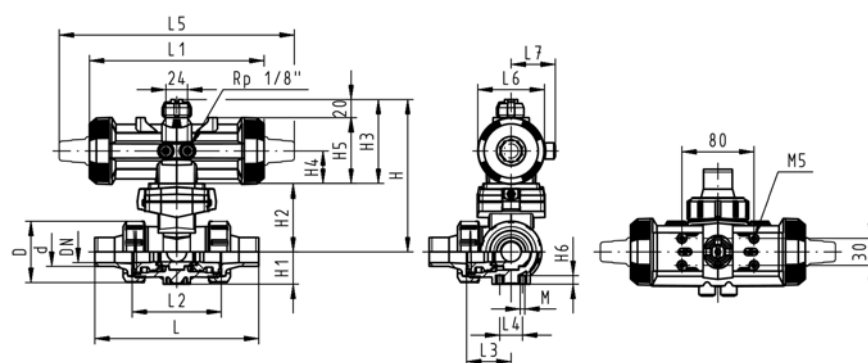
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 285 122	199 285 132
20	15	10	200	199 285 123	199 285 133
25	20	10	470	199 285 124	199 285 134
32	25	10	793	199 285 125	199 285 135
40	32	10	1290	199 285 126	199 285 136
50	40	10	1910	199 285 127	199 285 137
63	50	10	3100	199 285 128	199 285 138

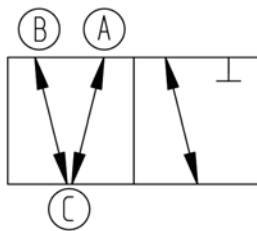
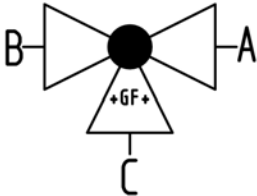
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	131	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	141	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	165	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	182	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	209	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	242	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	302	224	179	89	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PVC-C metric

3-Way ball valve type 285 PVC-C Horizontal/T-port DA (Double acting) Without manual override With solvent cement sockets metric



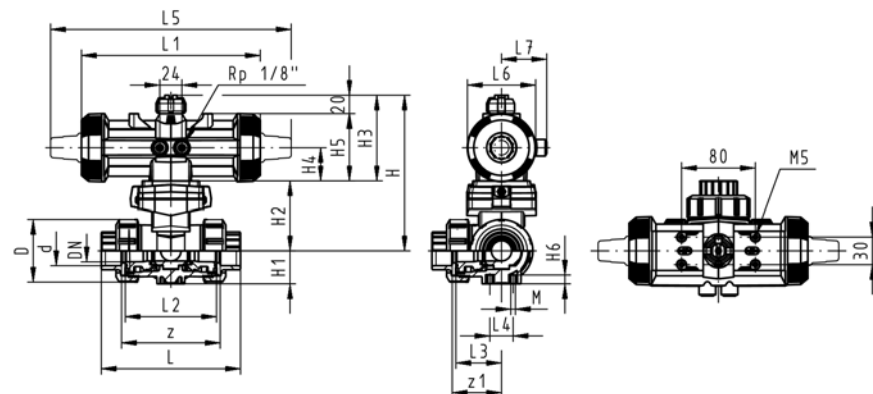
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 285 322	199 285 332
20	15	10	200	199 285 323	199 285 333
25	20	10	470	199 285 324	199 285 334
32	25	10	793	199 285 325	199 285 335
40	32	10	1290	199 285 326	199 285 336
50	40	10	1910	199 285 327	199 285 337
63	50	10	3100	199 285 328	199 285 338

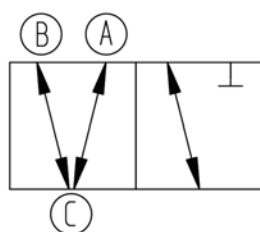
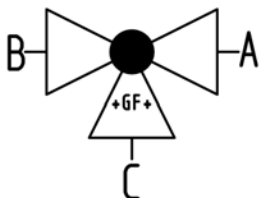
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	81	40
20	48	6	81	40
25	48	6	94	47
32	48	6	107	54
40	59	8	130	65
50	59	8	143	72
63	59	8	185	92



PVC-C metric

3-Way ball valve type 285 PVC-C Horizontal/T-port DA (Double acting) Without manual override With solvent cement spigots metric



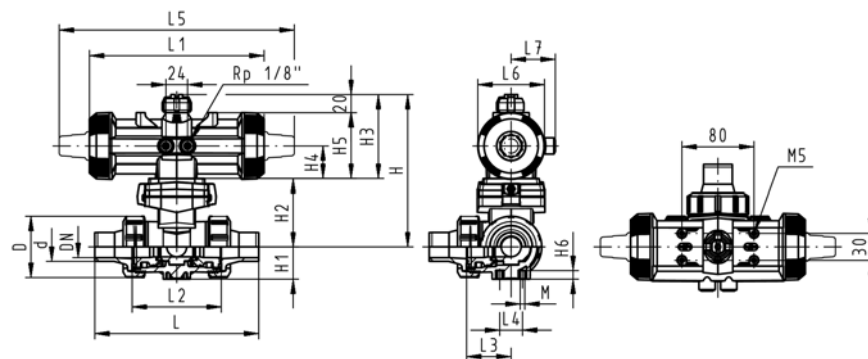
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 285 302	199 285 312
20	15	10	200	199 285 303	199 285 313
25	20	10	470	199 285 304	199 285 314
32	25	10	793	199 285 305	199 285 315
40	32	10	1290	199 285 306	199 285 316
50	40	10	1910	199 285 307	199 285 317
63	50	10	3100	199 285 308	199 285 318

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	131	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	141	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	165	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	182	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	209	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	242	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	302	224	179	89	45	305	95

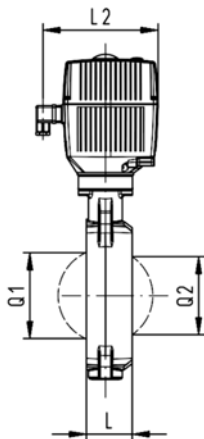
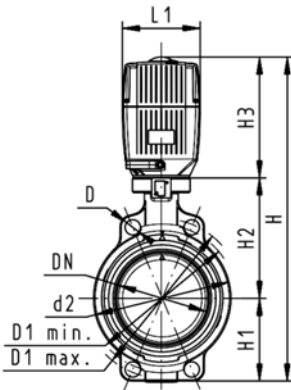
d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PVC-C metric

Butterfly valves electric

Butterfly valve type 140 PVC-C 100-230V Without manual override



Model:

- 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
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
63	50	2	10	1470	199 140 202	199 140 222	
75	65	2 ½	10	2200	199 140 203	199 140 223	
90	80	3	10	3000	199 140 204	199 140 224	
110	100	4	10	6500	199 140 205	199 140 225	
140	125	5	10	11500	199 140 206	199 140 226	
160	150	6	10	16600	199 140 207	199 140 227	
225	200	8	10	39600	199 140 208	199 140 228	

d [mm]	Actuator unit type	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]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178

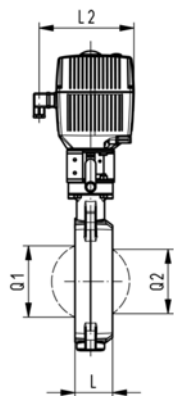
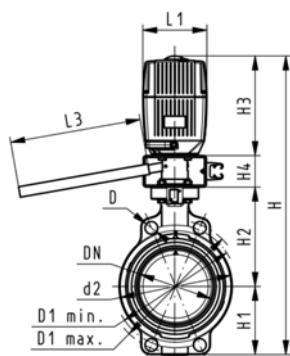
d [mm]	Q2 [mm]	
63		
75	35	
90	50	
110	74	
140	97	
160	123	
225	169	

PVC-C metric

Butterfly valve type 140 PVC-C 100-230V With manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 162	199 140 182
75	65	2 ½	10	2200	199 140 163	199 140 183
90	80	3	10	3000	199 140 164	199 140 184
110	100	4	10	6500	199 140 165	199 140 185
140	125	5	10	11500	199 140 166	199 140 186
160	150	6	10	16600	199 140 167	199 140 187
225	200	8	10	39600	199 140 168	199 140 188

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

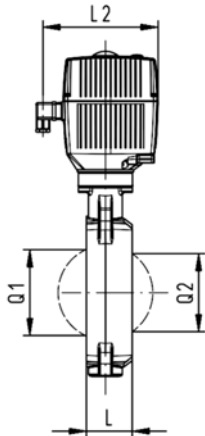
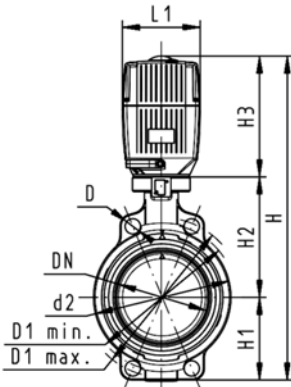
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

PVC-C metric

Butterfly valve type 140 PVC-C 24V Without manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 282	199 140 302
75	65	2 ½	10	2200	199 140 283	199 140 303
90	80	3	10	3000	199 140 284	199 140 304
110	100	4	10	6500	199 140 285	199 140 305
140	125	5	10	11500	199 140 286	199 140 306
160	150	6	10	16600	199 140 287	199 140 307
225	200	8	10	39600	199 140 288	199 140 308

d [mm]	Actuator unit type	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]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178

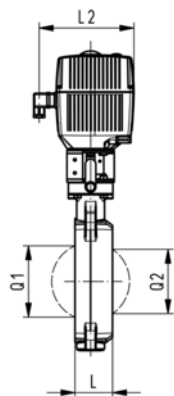
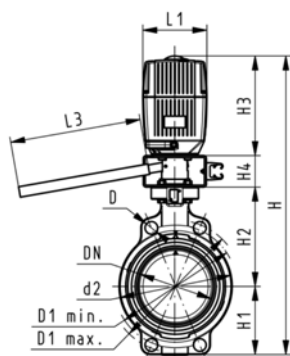
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

PVC-C metric

Butterfly valve type 140 PVC-C 24V With manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 242	199 140 262
75	65	2 ½	10	2200	199 140 243	199 140 263
90	80	3	10	3000	199 140 244	199 140 264
110	100	4	10	6500	199 140 245	199 140 265
140	125	5	10	11500	199 140 246	199 140 266
160	150	6	10	16600	199 140 247	199 140 267
225	200	8	10	39600	199 140 248	199 140 268

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

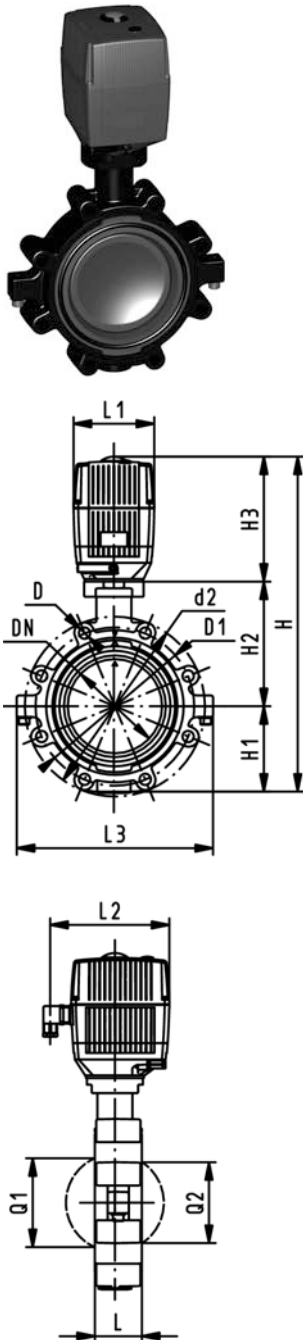
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

PVC-C metric

Lugstyle butterfly valve type 141 PVC-C 100-230V Without manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
63	50	2	10	1470	199 141 202	199 141 222	
75	65	2 ½	10	2200	199 141 203	199 141 223	
90	80	3	10	3000	199 141 204	199 141 224	
110	100	4	10	6500	199 141 205	199 141 225	
140	125	5	10	11500	199 141 206	199 141 226	
160	150	6	10	16600	199 141 207	199 141 227	
225	200	8	10	39600	199 141 208	199 141 228	

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	EA-31	M16	125	150	399	77	134	188	45	122	180	150	40
75	EA-31	M16	145	170	411	83	140	188	46	122	180	160	54
90	EA-31	M16	160	184	423	89	146	188	49	122	180	205	67
110	EA-31	M16	180	216	459	104	167	188	56	122	180	244	88
140	EA-31	M16	210	246	486	117	181	188	64	122	180	272	113
160	EA-31	M20	240	273	507	130	189	188	72	122	180	297	139
225	EA-42	M20	295	334	576	158	210	208	73	122	180	360	178

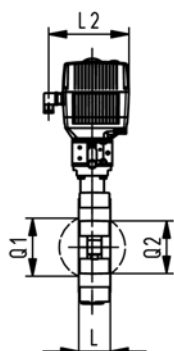
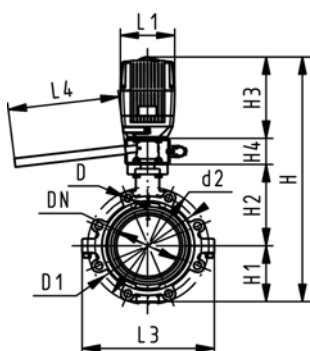
d [mm]	Q2 [mm]	
63		
75	35	
90	50	
110	74	
140	97	
160	123	
225	169	

PVC-C metric

Lugstyle butterfly valve type 141 PVC-C 100-230V With manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
63	50	2	10	1470	199 141 162	199 141 182	
75	65	2 ½	10	2200	199 141 163	199 141 183	
90	80	3	10	3000	199 141 164	199 141 184	
110	100	4	10	6500	199 141 165	199 141 185	
140	125	5	10	11500	199 141 166	199 141 186	
160	150	6	10	16600	199 141 167	199 141 187	
225	200	8	10	39600	199 141 168	199 141 188	

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	
63	EA-31	M16	125	150	459	77	134	188	60	45	122	180	150	
75	EA-31	M16	145	170	471	83	140	188	60	46	122	180	160	
90	EA-31	M16	160	184	483	89	146	188	60	49	122	180	205	
110	EA-31	M16	180	216	519	104	167	188	60	56	122	180	244	
140	EA-31	M16	210	246	546	117	181	188	60	64	122	180	272	
160	EA-31	M20	240	273	567	130	189	188	60	72	122	180	297	
225	EA-42	M20	295	334	636	158	210	208	60	73	122	180	360	

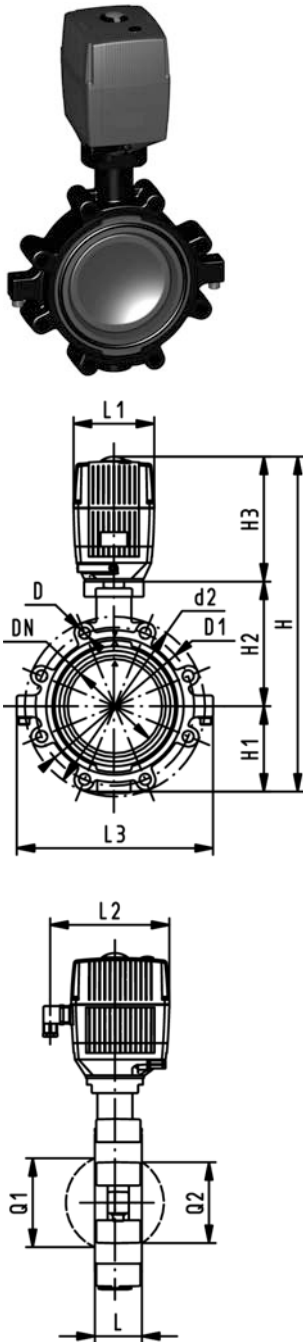
d [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]	
63	200	40		
75	200	54	35	
90	200	67	50	
110	250	88	74	
140	250	113	97	
160	250	139	123	
225	250	178	169	

PVC-C metric

Lugstyle butterfly valve type 141 PVC-C 24V Without manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
63	50	2	10	1470	199 141 282	199 141 302	
75	65	2 ½	10	2200	199 141 283	199 141 303	
90	80	3	10	3000	199 141 284	199 141 304	
110	100	4	10	6500	199 141 285	199 141 305	
140	125	5	10	11500	199 141 286	199 141 306	
160	150	6	10	16600	199 141 287	199 141 307	
225	200	8	10	39600	199 141 288	199 141 308	

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	EA-31	M16	125	150	399	77	134	188	45	122	180	150	40
75	EA-31	M16	145	170	411	83	140	188	46	122	180	160	54
90	EA-31	M16	160	184	423	89	146	188	49	122	180	205	67
110	EA-31	M16	180	216	459	104	167	188	56	122	180	244	88
140	EA-31	M16	210	246	486	117	181	188	64	122	180	272	113
160	EA-31	M20	240	273	507	130	189	188	72	122	180	297	139
225	EA-42	M20	295	334	576	158	210	208	73	122	180	360	178

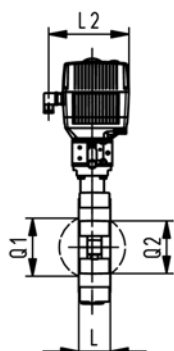
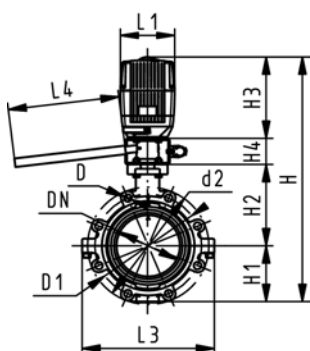
d [mm]	Q2 [mm]	
63		
75	35	
90	50	
110	74	
140	97	
160	123	
225	169	

PVC-C metric

Lugstyle butterfly valve type 141 PVC-C 24V With manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 141 242	199 141 262
75	65	2 ½	10	2200	199 141 243	199 141 263
90	80	3	10	3000	199 141 244	199 141 264
110	100	4	10	6500	199 141 245	199 141 265
140	125	5	10	11500	199 141 246	199 141 266
160	150	6	10	16600	199 141 247	199 141 267
225	200	8	10	39600	199 141 248	199 141 268

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
63	EA-31	M16	125	150	459	77	134	188	60	45	122	180	150
75	EA-31	M16	145	170	471	83	140	188	60	46	122	180	160
90	EA-31	M16	160	184	483	89	146	188	60	49	122	180	205
110	EA-31	M16	180	216	519	104	167	188	60	56	122	180	244
140	EA-31	M16	210	246	546	117	181	188	60	64	122	180	272
160	EA-31	M20	240	273	567	130	189	188	60	72	122	180	297
225	EA-42	M20	295	334	636	158	210	208	60	73	122	180	360

d [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]
63	200	40	
75	200	54	35
90	200	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

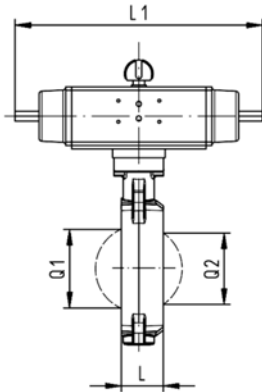
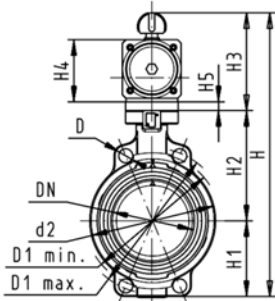
PVC-C metric

Butterfly valves pneumatic

Butterfly valve type 240 PVC-C

FC (Fail safe to close)

Without manual override



Model:

- 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
- Overall length according to EN 558, ISO 5752
- Control range 90°<

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 162	199 240 182
75	65	2 ½	10	2200	199 240 163	199 240 183
90	80	3	10	3000	199 240 164	199 240 184
110	100	4	10	6500	199 240 165	199 240 185
140	125	5	10	11500	199 240 166	199 240 186
160	150	6	10	16600	199 240 167	199 240 187
225	200	8	10	39600	199 240 168	199 240 188

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FC	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FC	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FC	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FC	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FC	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FC	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FC	23	290.0	295.0	267	529	158	210	161	118		73	452

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169

PVC-C metric

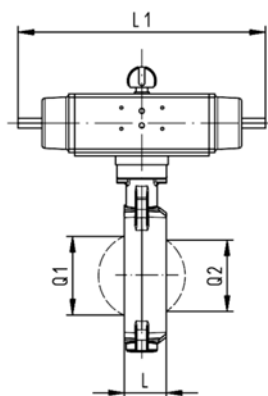
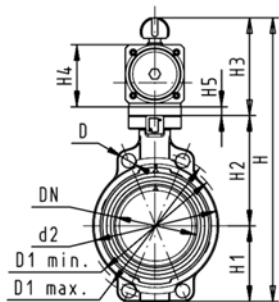
Butterfly valve type 240 PVC-C

FO (Fail safe to open)

Without manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Control range 90°<)



d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 202	199 240 222
75	65	2 ½	10	2200	199 240 203	199 240 223
90	80	3	10	3000	199 240 204	199 240 224
110	100	4	10	6500	199 240 205	199 240 225
140	125	5	10	11500	199 240 206	199 240 226
160	150	6	10	16600	199 240 207	199 240 227
225	200	8	10	39600	199 240 208	199 240 228

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FO	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FO	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FO	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FO	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FO	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FO	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FO	23	290.0	295.0	267	529	158	210	161	118		73	452

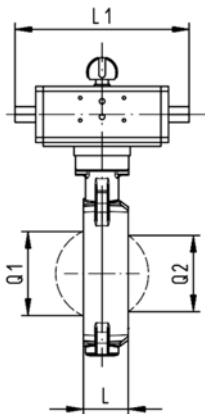
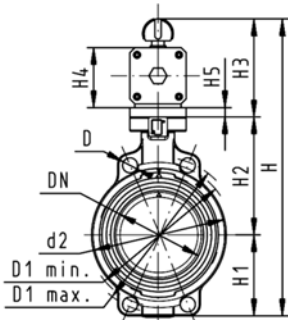
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169

PVC-C metric

Butterfly valve type 240 PVC-C DA (Double acting) Without manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Control range 90°<)



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 242	199 240 262
75	65	2 ½	10	2200	199 240 243	199 240 263
90	80	3	10	3000	199 240 244	199 240 264
110	100	4	10	6500	199 240 245	199 240 265
140	125	5	10	11500	199 240 246	199 240 266
160	150	6	10	16600	199 240 247	199 240 267
225	200	8	10	39600	199 240 248	199 240 268

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-35 DA	19	120.0	125.0	104	317	77	134	107	60	15	45	177
75	PA-35 DA	19	139.7	145.0	115	330	83	140	107	60	15	46	177
90	PA-40 DA	19	150.0	160.0	131	348	89	146	113	66	15	49	190
110	PA-45 DA	19	175.0	190.5	161	372	104	167	102	71		56	235
140	PA-45 DA	23	210.0	215.9	187	408	117	181	111	78		64	235
160	PA-55 DA	24	241.3	241.3	215	448	130	189	129	86		72	279
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	55	40	
75	55	54	35
90	60	67	50
110	65	88	74
140	72	113	97
160	80	139	123
225	90	178	169

PVC-C metric

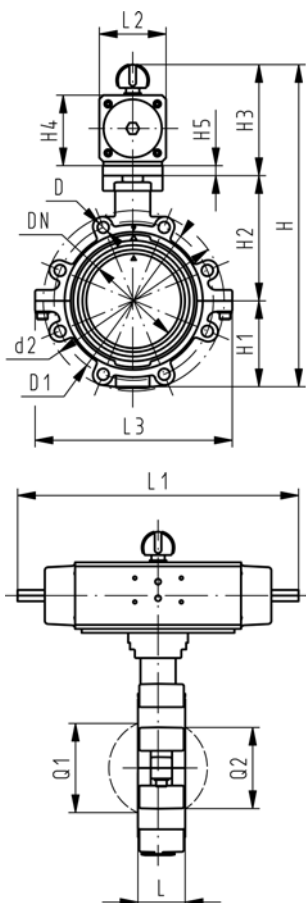
Lugstyle butterfly valve type 241 PVC-C

FC (Fail safe to close)

Without manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 241 162	199 241 182
75	65	2 ½	10	2200	199 241 163	199 241 183
90	80	3	10	3000	199 241 164	199 241 184
110	100	4	10	6500	199 241 165	199 241 185
140	125	5	10	11500	199 241 166	199 241 186
160	150	6	10	16600	199 241 167	199 241 187
225	200	8	10	39600	199 241 168	199 241 188

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-30 FC	M16	125	150	328	77	134	117	70	15	45	276	65
75	PA-30 FC	M16	145	170	340	83	140	117	70	15	46	276	65
90	PA-35 FC	M16	160	184	361	89	146	126	78	15	49	326	72
110	PA-40 FC	M16	180	216	400	104	167	129	86		56	370	80
140	PA-45 FC	M16	210	246	437	117	181	139	96		64	411	90
160	PA-50 FC	M20	240	273	468	130	189	149	106		72	423	100
225	PA-55 FC	M20	295	334	529	158	210	161	118		73	452	112

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	40	
75	160	54	35
90	205	67	50
110	244	88	74
140	272	113	97
160	297	139	123
225	360	178	169

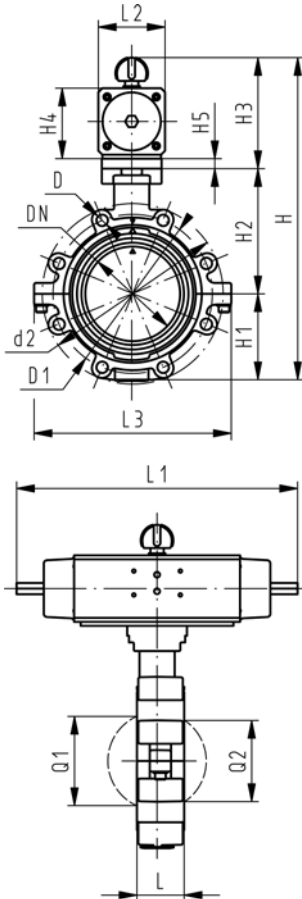
PVC-C metric

Lugstyle butterfly valve type 241 PVC-C FO (Fail safe to open) Without manual override



Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 241 202	199 241 222
75	65	2 ½	10	2200	199 241 203	199 241 223
90	80	3	10	3000	199 241 204	199 241 224
110	100	4	10	6500	199 241 205	199 241 225
140	125	5	10	11500	199 241 206	199 241 226
160	150	6	10	16600	199 241 207	199 241 227
225	200	8	10	39600	199 241 208	199 241 228

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-30 FO	M16	125	150	328	77	134	117	70	15	45	276	65
75	PA-30 FO	M16	145	170	340	83	140	117	70	15	46	276	65
90	PA-35 FO	M16	160	184	361	89	146	126	78	15	49	326	72
110	PA-40 FO	M16	180	216	400	104	167	129	86		56	370	80
140	PA-45 FO	M16	210	246	437	117	181	139	96		64	411	90
160	PA-50 FO	M20	240	273	468	130	189	149	106		72	423	100
225	PA-55 FO	M20	295	334	529	158	210	161	118		73	452	112

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	40	
75	160	54	35
90	205	67	50
110	244	88	74
140	272	113	97
160	297	139	123
225	360	178	169

PVC-C metric

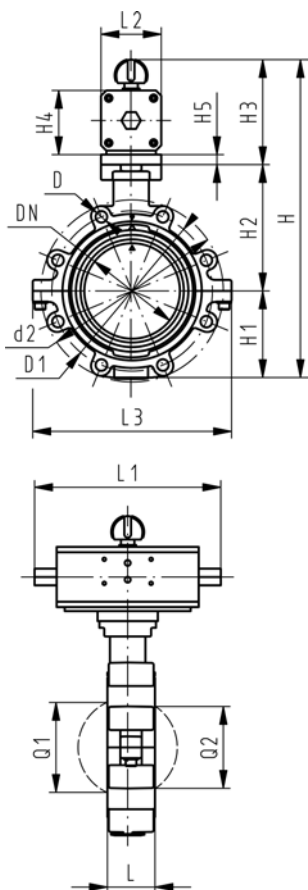
Lugstyle butterfly valve type 241 PVC-C

DA (Double acting)

Without manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 241 242	199 241 262
75	65	2 ½	10	2200	199 241 243	199 241 263
90	80	3	10	3000	199 241 244	199 241 264
110	100	4	10	6500	199 241 245	199 241 265
140	125	5	10	11500	199 241 246	199 241 266
160	150	6	10	16600	199 241 247	199 241 267
225	200	8	10	39600	199 241 248	199 241 268

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-35 DA	M16	125	150	318	77	134	107	60	15	45	177	55
75	PA-35 DA	M16	145	170	330	83	140	107	60	15	46	177	55
90	PA-40 DA	M16	160	184	348	89	146	113	66	15	49	190	60
110	PA-45 DA	M16	180	216	373	104	167	102	71		56	235	65
140	PA-45 DA	M16	210	246	409	117	181	111	78		64	235	72
160	PA-55 DA	M20	240	273	448	130	189	129	86		72	279	80
225	PA-55 DA	M20	295	334	507	158	210	139	96		73	279	90

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	40	
75	160	54	35
90	205	67	50
110	244	88	74
140	272	113	97
160	297	139	123
225	360	178	169

PVC-C metric

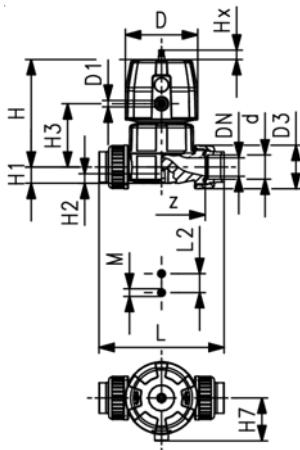
Diaphragm valves pneumatic

New generation

Diaphragm valve DIASTAR Six PVC-C

FC (Fail safe to close)

Unions with solvent cement sockets metric



Model:

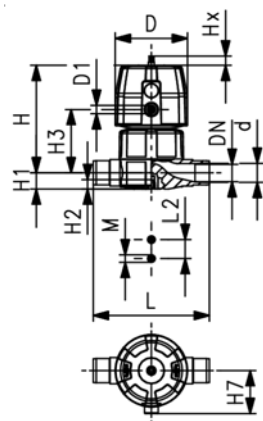
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
20	15	6	125	163 614 012
25	20	6	271	163 614 013
32	25	6	481	163 614 014
40	32	6	759	163 614 015
50	40	6	960	163 614 016
63	50	6	1181	163 614 017

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	43	M6	96	7
25	96	1/8	152	25	132	18	12	73	57	M6	114	10
32	96	1/8	166	25	143	22	12	84	57	M6	122	13
40	120	1/8	192	45	173	26	15	99	69	M8	140	14
50	120	1/8	222	45	193	32	15	119	69	M8	160	16
63	120	1/8	266	45	205	39	15	132	69	M8	190	16



Diaphragm valve DIASTAR Six PVC-C

FC (Fail safe to close)

With solvent cement spigots metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

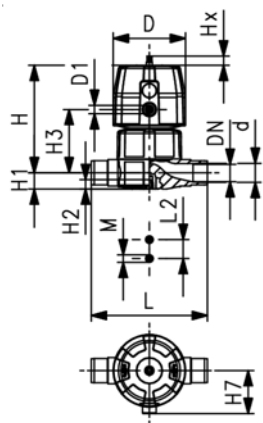
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
20	15	6	125	163 615 012
25	20	6	271	163 615 013
32	25	6	481	163 615 014
40	32	6	759	163 615 015
50	40	6	960	163 615 016
63	50	6	1181	163 615 017

table continued next page

PVC-C metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]	
20	68	1/8	124	25	101	14	12	60	43	M6	7	
25	96	1/8	144	25	132	18	12	73	57	M6	10	
32	96	1/8	154	25	143	22	12	84	57	M6	13	
40	120	1/8	174	45	173	26	15	99	69	M8	14	
50	120	1/8	194	45	193	32	15	119	69	M8	16	
63	120	1/8	224	45	205	39	15	132	69	M8	16	



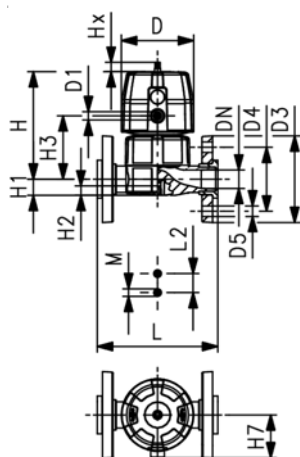
Diaphragm valve DIASTAR Six PVC-C FC (Fail safe to close) With backing flanges PP-V metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)



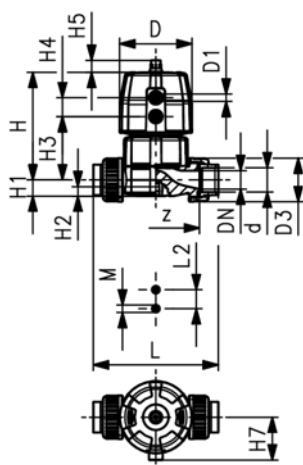
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	
20	15	6	125	163 617 112	
25	20	6	271	163 617 113	
32	25	6	481	163 617 114	
40	32	6	759	163 617 115	
50	40	6	960	163 617 116	
63	50	6	1181	163 617 117	

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]	
20	68	1/8	95	65	14	130	25	101	14	12	60	43	M6	7	
25	96	1/8	105	75	14	150	25	132	18	12	73	57	M6	10	
32	96	1/8	115	85	14	160	25	143	22	12	84	57	M6	13	
40	120	1/8	140	100	18	180	45	173	26	15	99	69	M8	14	
50	120	1/8	150	110	18	200	45	193	32	15	119	69	M8	16	
63	120	1/8	165	125	18	230	45	205	39	15	132	69	M8	16	

PVC-C metric

Diaphragm valve DIASTAR Ten PVC-C FC (Fail safe to close)

Unions with solvent cement sockets metric



Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

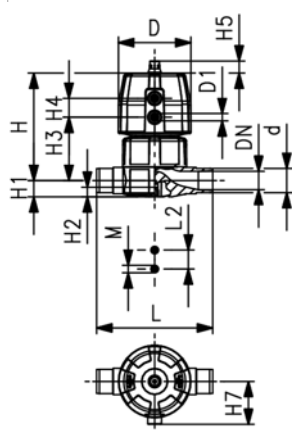
Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM

d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10/10*	125	163 624 012	163 624 032
25	20	10/10*	271	163 624 013	163 624 033
32	25	10/10*	481	163 624 014	163 624 034
40	32	10/10*	759	163 624 015	163 624 035
50	40	10/10*	1263	163 624 016	163 624 036
63	50	10/6*	1728	163 624 017	163 624 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	96	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	114	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	122	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	140	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	160	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	190	23



Diaphragm valve DIASTAR Ten PVC-C FC (Fail safe to close)

With solvent cement spigots metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

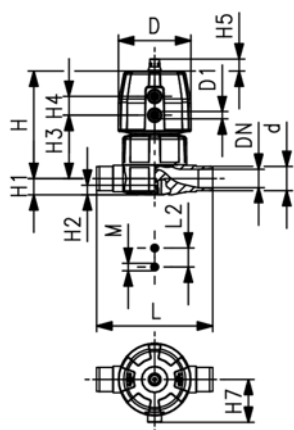
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM

d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10/10*	125	163 625 012	163 625 032
25	20	10/10*	271	163 625 013	163 625 033
32	25	10/10*	481	163 625 014	163 625 034
40	32	10/10*	759	163 625 015	163 625 035
50	40	10/10*	1263	163 625 016	163 625 036
63	50	10/6*	1728	163 625 017	163 625 037

table continued next page

PVC-C metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23



Diaphragm valve DIASTAR Ten PVC-C FC (Fail safe to close) With backing flanges PP-V metric/BS

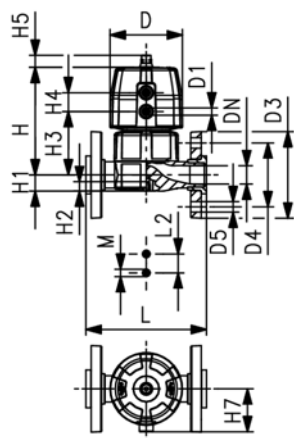
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM



d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10/10*	125	163 627 112	163 627 132
25	20	10/10*	271	163 627 113	163 627 133
32	25	10/10*	481	163 627 114	163 627 134
40	32	10/10*	759	163 627 115	163 627 135
50	40	10/10*	1263	163 627 116	163 627 136
63	50	10/6*	1728	163 627 117	163 627 137

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	43	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	57	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	69	M8
50	150	1/4	150	110	18	200	45	193	32	15	119	36	26	88	M8
63	150	1/4	165	125	18	230	45	205	39	15	132	36	26	88	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

PVC-C metric

Diaphragm valve DIASTAR Ten PVC-C FO (Fail safe to open)

Unions with solvent cement sockets metric

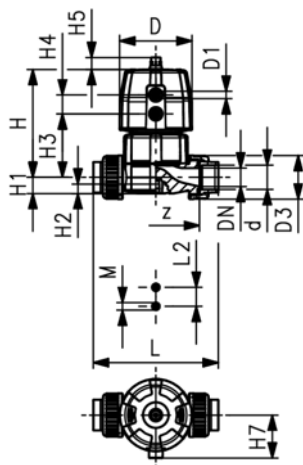


Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code										
20	15	10	125	163 644 012	163 644 032										
25	20	10	271	163 644 013	163 644 033										
32	25	10	481	163 644 014	163 644 034										
40	32	10	759	163 644 015	163 644 035										
50	40	10	1263	163 644 016	163 644 036										
63	50	10	1728	163 644 017	163 644 037										

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]	
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	96	7	
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	114	10	
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	122	13	
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	140	15	
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	160	19	
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	190	23	

Diaphragm valve DIASTAR Ten PVC-C FO (Fail safe to open)

With solvent cement spigots metric

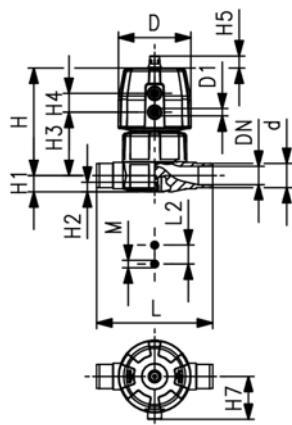


Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

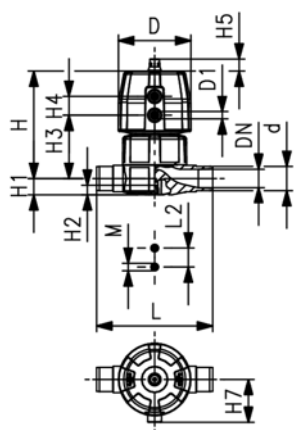


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code										
20	15	10	125	163 645 012	163 645 032										
25	20	10	271	163 645 013	163 645 033										
32	25	10	481	163 645 014	163 645 034										
40	32	10	759	163 645 015	163 645 035										
50	40	10	1263	163 645 016	163 645 036										
63	50	10	1728	163 645 017	163 645 037										

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	

table continued next page

PVC-C metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23



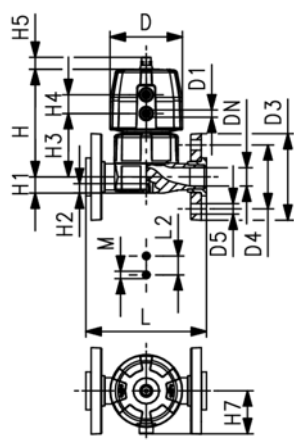
Diaphragm valve DIASTAR Ten PVC-C FO (Fail safe to open) With backing flanges PP-V metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	163 647 112	163 647 132
25	20	10	271	163 647 113	163 647 133
32	25	10	481	163 647 114	163 647 134
40	32	10	759	163 647 115	163 647 135
50	40	10	1263	163 647 116	163 647 136
63	50	10	1728	163 647 117	163 647 137

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	43	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	57	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	69	M8
50	150	1/4	150	110	18	200	45	214	32	15	119	36	26	88	M8
63	150	1/4	165	125	18	230	45	226	39	15	132	36	26	88	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

PVC-C metric

Diaphragm valve DIASTAR Ten PVC-C

DA (Double acting)

Unions with solvent cement sockets metric

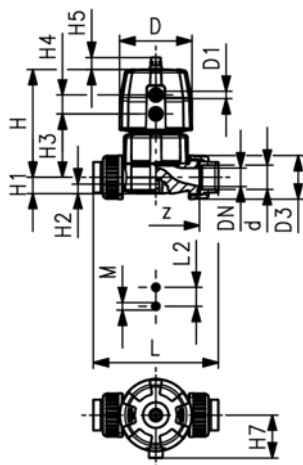


Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	163 654 012	163 654 032
25	20	10	271	163 654 013	163 654 033
32	25	10	481	163 654 014	163 654 034
40	32	10	759	163 654 015	163 654 035
50	40	10	1263	163 654 016	163 654 036
63	50	10	1728	163 654 017	163 654 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	96	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	114	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	122	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	140	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	160	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	190	23

Diaphragm valve DIASTAR Ten PVC-C

DA (Double acting)

With solvent cement spigots metric

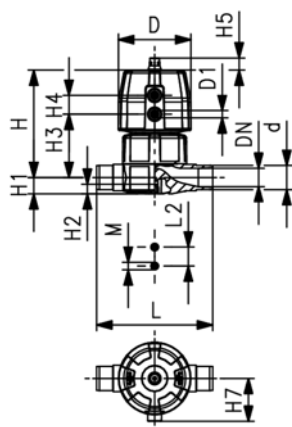


Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

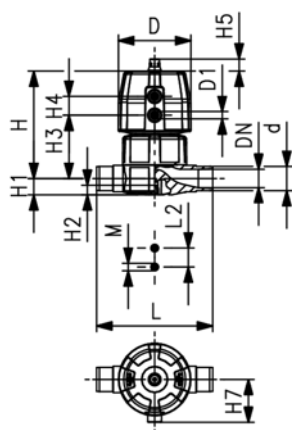


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	163 655 012	163 655 032
25	20	10	271	163 655 013	163 655 033
32	25	10	481	163 655 014	163 655 034
40	32	10	759	163 655 015	163 655 035
50	40	10	1263	163 655 016	163 655 036
63	50	10	1728	163 655 017	163 655 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13

table continued next page

PVC-C metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	



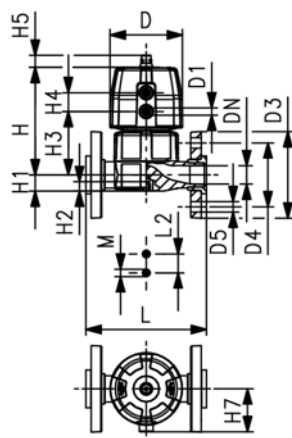
Diaphragm valve DIASTAR Ten PVC-C DA (Double acting) With backing flanges PP-V metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	
20	15	10	125	163 657 112	163 657 132	
25	20	10	271	163 657 113	163 657 133	
32	25	10	481	163 657 114	163 657 134	
40	32	10	759	163 657 115	163 657 135	
50	40	10	1263	163 657 116	163 657 136	
63	50	10	1728	163 657 117	163 657 137	

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	43	M6	
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6	
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	57	M6	
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	69	M8	
50	150	1/4	150	110	18	200	45	214	32	15	119	36	26	88	M8	
63	150	1/4	165	125	18	230	45	226	39	15	132	36	26	88	M8	

d [mm]	Lift = Hx [mm]	
20	7	
25	10	
32	13	
40	15	
50	19	
63	23	

PVC-C metric

Diaphragm valve DIASTAR Sixteen PVC-C FC (Fail safe to close) Unions with solvent cement sockets metric

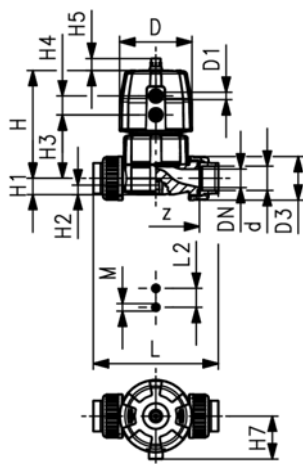


Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code										
20	15	10	125	163 634 012	163 634 032										
25	20	10	271	163 634 013	163 634 033										
32	25	10	481	163 634 014	163 634 034										
40	32	10	759	163 634 015	163 634 035										
50	40	10	1263	163 634 016	163 634 036										
63	50	10	1728	163 634 017	163 634 037										

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]	
20	96	1/8	128	25	127	14	12	68	25	16	57	M6	96	7	
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	114	10	
32	120	1/8	166	25	167	22	12	93	26	26	69	M6	122	13	
40	150	1/4	192	45	196	26	15	101	36	26	88	M8	140	15	
50	180	1/4	222	45	239	32	15	124	37	26	103	M8	160	19	
63	180	1/4	266	45	251	39	15	137	37	26	103	M8	190	23	

Diaphragm valve DIASTAR Sixteen PVC-C FC (Fail safe to close) With solvent cement spigots metric

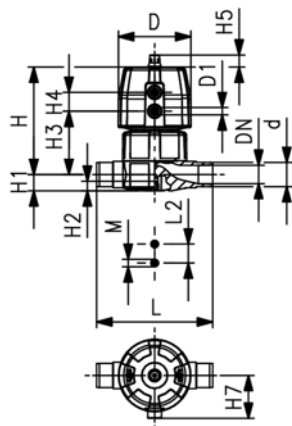


Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

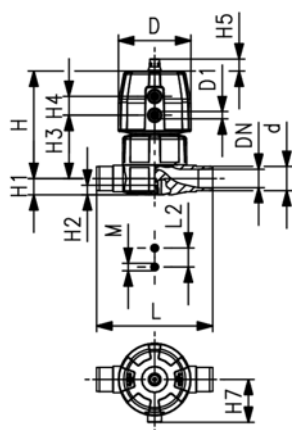


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code										
20	15	10	125	163 635 012	163 635 032										
25	20	10	271	163 635 013	163 635 033										
32	25	10	481	163 635 014	163 635 034										
40	32	10	759	163 635 015	163 635 035										
50	40	10	1263	163 635 016	163 635 036										
63	50	10	1728	163 635 017	163 635 037										

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	
20	96	1/8	124	25	127	14	12	68	25	16	57	M6	7	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	
32	120	1/8	154	25	167	22	12	93	26	26	69	M6	13	

table continued next page

PVC-C metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
40	150	1/4	174	45	196	26	15	101	36	26	88	M8	15
50	180	1/4	194	45	239	32	15	124	37	26	103	M8	19
63	180	1/4	224	45	251	39	15	137	37	26	103	M8	23

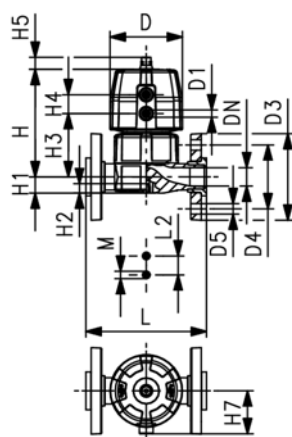
Diaphragm valve DIASTAR Sixteen PVC-C FC (Fail safe to close) With backing flanges PP-V metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	163 637 112	163 637 132
25	20	10	271	163 637 113	163 637 133
32	25	10	481	163 637 114	163 637 134
40	32	10	759	163 637 115	163 637 135
50	40	10	1263	163 637 116	163 637 136
63	50	10	1728	163 637 117	163 637 137

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	96	1/8	95	65	14	130	25	127	14	12	68	25	16	57	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	120	1/8	115	85	14	160	25	167	22	12	93	26	26	69	M6
40	150	1/4	140	100	18	180	45	196	26	15	101	36	26	88	M8
50	180	1/4	150	110	18	200	45	239	32	15	124	37	26	103	M8
63	180	1/4	165	125	18	230	45	251	39	15	137	37	26	103	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

PVC-C metric

Diaphragm valves pneumatic

Diaphragm valve type DIASTAR PVC-C

Series 025 FC (Fail safe to close)

With fixed flanges PVC-C metric



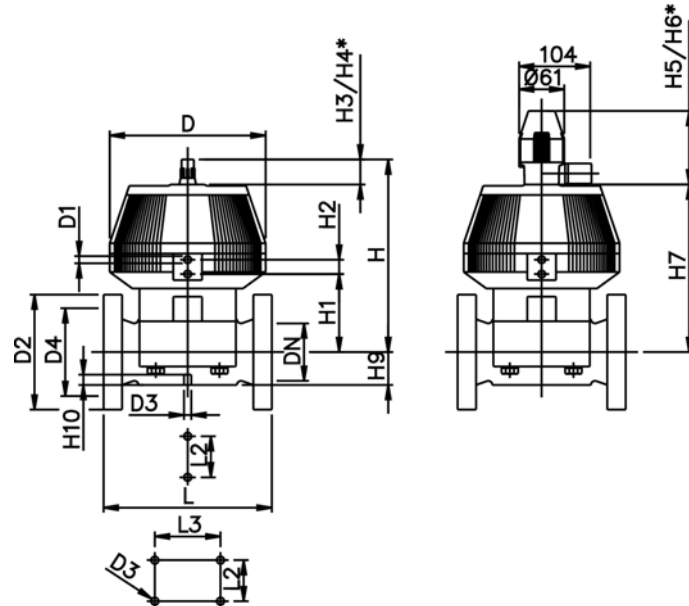
Model:

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
* 75	65	2 ½	10	992	199 025 697	199 025 727
** 90	80	3	10	1700	199 025 698	199 025 728
110	100	4	6	2700	199 025 699	199 025 729

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]
* 75	280	¼	185	8	145	290	70	344	148	24	46	100	129	195
** 90	280	¼	200	12	160	310	120	348	150	24	46	100	129	195
110	335	¼	225	12	180	350	120	395	176	24	46	100	129	195

d [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	298	46	15
** 90	302	57	15
110	349	69	20



PVC-C metric

Diaphragm valve type DIASTAR PVC-C Series 025 FO (Fail safe to open) With fixed flanges PVC-C metric



Model:

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

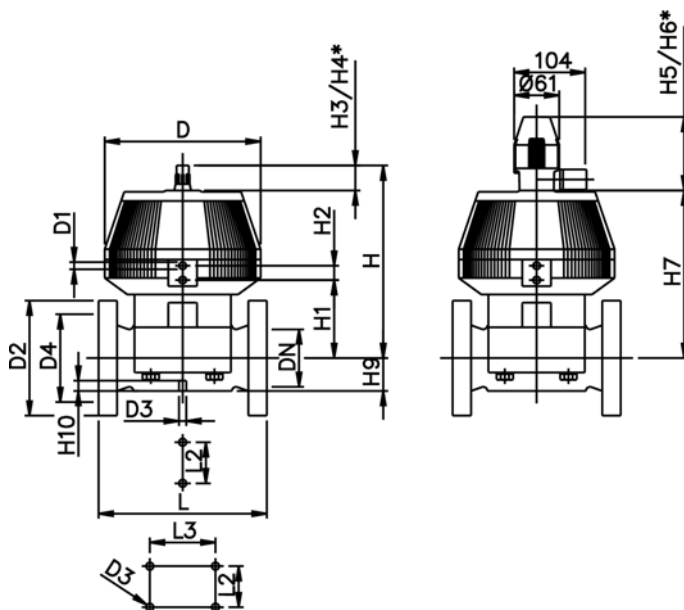
* With backing flanges PP-V

** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
* 75	65	2 ½	10	992	199 025 707	199 025 737
** 90	80	3	10	1700	199 025 708	199 025 738
110	100	4	6	2700	199 025 709	199 025 739

d [mm]	D [mm]	D1_G [inch]	D3[M] [mm]	D2 [mm]	D4 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]
* 75	280	¼	8	185	145	290	70	344	148	24	46	100	129	195
** 90	280	¼	12	200	160	310	120	348	150	24	46	100	129	195
110	335	¼	12	225	180	350	120	395	176	24	46	100	129	195

d [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	298	46	15
** 90	302	57	15
110	349	69	20



PVC-C metric

Diaphragm valve type DIASTAR PVC-C Series 025 DA (Double acting) With fixed flanges PVC-C metric



Model:

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

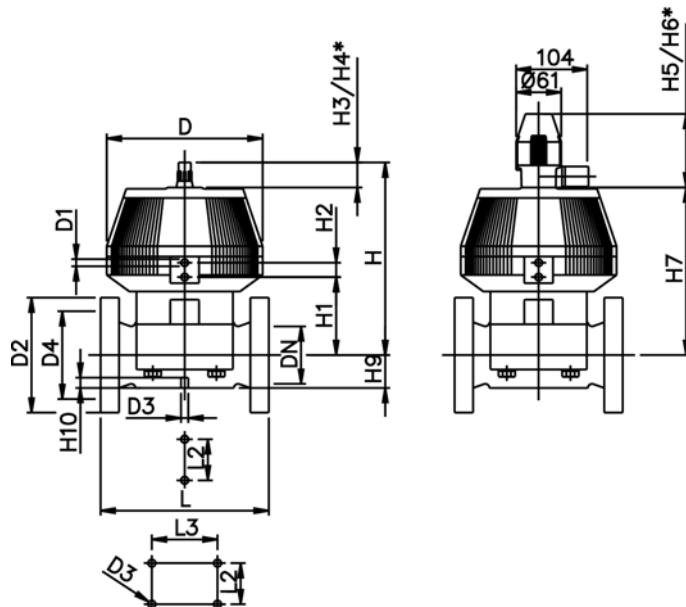
* With backing flanges PP-V

** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
* 75	65	2 ½	10	992	199 025 717	199 025 747
** 90	80	3	10	1700	199 025 718	199 025 748
110	100	4	6	2700	199 025 719	199 025 749

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]
* 75	280	¼	185	8	145	290	70	344	148	24	46	100	129	195
** 90	280	¼	200	12	160	310	120	348	150	24	46	100	129	195
110	335	¼	225	12	180	350	120	395	176	24	46	100	129	195

d [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	298	46	15
** 90	302	57	15
110	349	69	20



ABS metric

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ABS metric

Ball valves electric

Ball valve type 107 ABS 100-230V
With manual emergency override
With solvent cement sockets metric



DN10/15 - 50

Model:

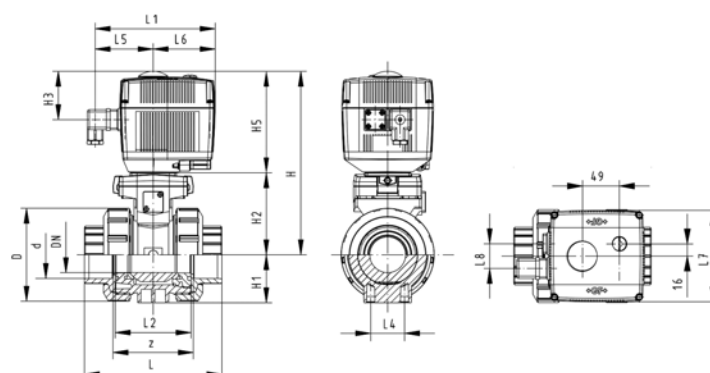
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
16	10	10	70	199 107 082
20	15	10	185	199 107 083
25	20	10	350	199 107 084
32	25	10	700	199 107 085
40	32	10	1000	199 107 086
50	40	10	1600	199 107 087
63	50	10	3100	199 107 088

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	200	27	64	64	137	92	161	56	25	77	83	122	33	64
20	50	200	27	64	64	137	95	161	56	25	77	83	122	33	64
25	58	209	30	73	64	137	110	161	65	25	77	83	122	33	72
32	68	209	36	73	64	137	123	161	71	25	77	83	122	33	79
40	84	220	44	84	64	137	146	161	85	45	77	83	122	33	94
50	97	220	51	84	64	137	157	161	89	45	77	83	122	33	95
63	124	243	64	106	64	137	183	161	101	45	77	83	122	33	107



ABS metric

Ball valve type 107 ABS 100-230V With manual emergency override With threaded sockets Rp



DN10/15 - 50

Model:

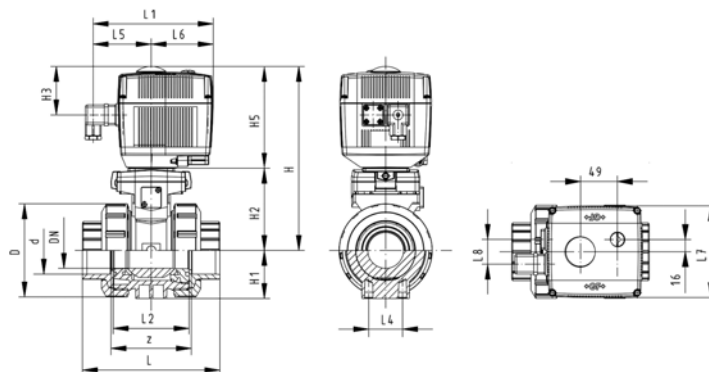
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	
3/8	10	10	70	199 107 682	
1/2	15	10	185	199 107 683	
3/4	20	10	350	199 107 684	
1	25	10	700	199 107 685	
1 1/4	32	10	1000	199 107 686	
1 1/2	40	10	1600	199 107 687	
2	50	10	3100	199 107 688	

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
3/8	50	200	27	64	64	137	92	161	56	25	77	83	122	33	64
1/2	50	200	27	64	64	137	95	161	56	25	77	83	122	33	64
3/4	58	209	30	73	64	137	110	161	65	25	77	83	122	33	72
1	68	209	36	73	64	137	123	161	71	25	77	83	122	33	79
1 1/4	84	220	44	84	64	137	146	161	85	45	77	83	122	33	94
1 1/2	97	220	51	84	64	137	157	161	89	45	77	83	122	33	95
2	124	243	64	106	64	137	183	161	101	45	77	83	122	33	107



ABS metric

Ball valve type 107 ABS 24V With manual emergency override With solvent cement sockets metric



DN10/15 - 50

Model:

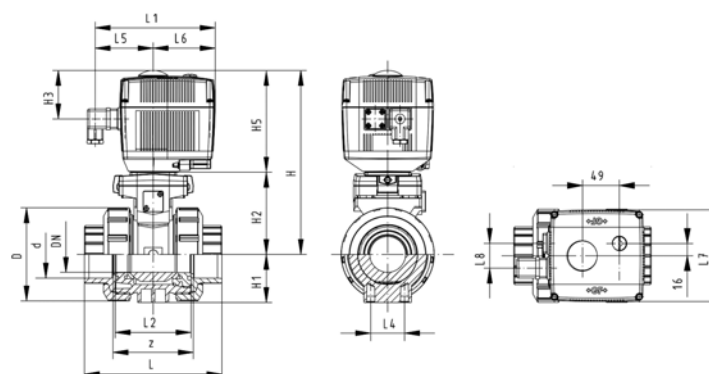
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
16	10	10	70	199 107 092
20	15	10	185	199 107 093
25	20	10	350	199 107 094
32	25	10	700	199 107 095
40	32	10	1000	199 107 096
50	40	10	1600	199 107 097
63	50	10	3100	199 107 098

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	200	27	64	64	137	92	161	56	25	77	83	122	33	64
20	50	200	27	64	64	137	95	161	56	25	77	83	122	33	64
25	58	209	30	73	64	137	110	161	65	25	77	83	122	33	72
32	68	209	36	73	64	137	123	161	71	25	77	83	122	33	79
40	84	220	44	84	64	137	146	161	85	45	77	83	122	33	94
50	97	220	51	84	64	137	157	161	89	45	77	83	122	33	95
63	124	243	64	106	64	137	183	161	101	45	77	83	122	33	107



ABS metric

Ball valve type 107 ABS 24V With manual emergency override With threaded sockets Rp



DN10/15 - 50

Model:

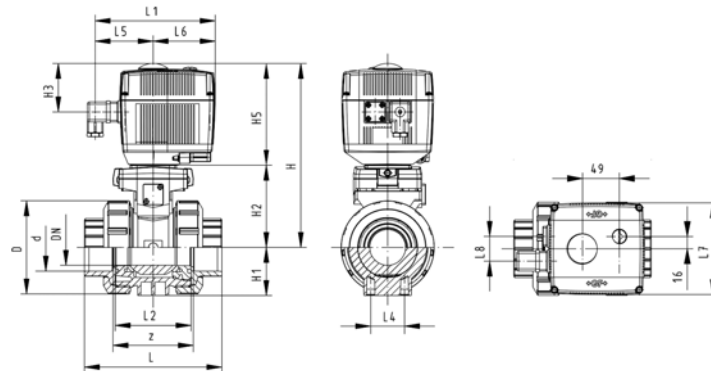
- Built on with electric actuator EA11
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
3/8	10	10	70	199 107 692
1/2	15	10	185	199 107 693
3/4	20	10	350	199 107 694
1	25	10	700	199 107 695
1 1/4	32	10	1000	199 107 696
1 1/2	40	10	1600	199 107 697
2	50	10	3100	199 107 698

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
3/8	50	200	27	64	64	137	92	161	56	25	77	83	122	33	64
1/2	50	200	27	64	64	137	95	161	56	25	77	83	122	33	64
3/4	58	209	30	73	64	137	110	161	65	25	77	83	122	33	72
1	68	209	36	73	64	137	123	161	71	25	77	83	122	33	79
1 1/4	84	220	44	84	64	137	146	161	85	45	77	83	122	33	94
1 1/2	97	220	51	84	64	137	157	161	89	45	77	83	122	33	95
2	124	243	64	106	64	137	183	161	101	45	77	83	122	33	107



ABS metric

Ball valve type 130 ABS 100-230V With manual emergency override With solvent cement sockets metric

Model:

- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)

Option:

- Individual configuration of the valve (see diagram)

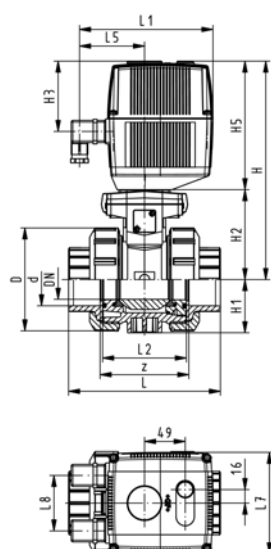


DN10/15 - 50

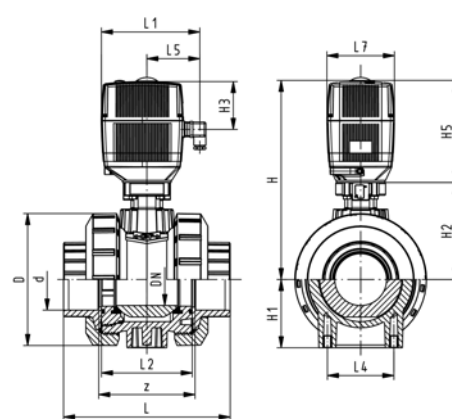


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
16	10	10	70	199 130 702
20	15	10	185	199 130 703
25	20	10	350	199 130 704
32	25	10	700	199 130 705
40	32	10	1000	199 130 706
50	40	10	1600	199 130 707
63	50	10	3100	199 130 708
75	65	10	5000	199 130 709
90	80	10	7000	199 130 710
110	100	10	11000	199 130 711

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
16	50	231	27	64	94	167	92	180	56	25	97	122	64
20	50	231	27	64	94	167	95	180	56	25	97	122	64
25	58	240	30	73	94	167	110	180	65	25	97	122	72
32	68	240	36	73	94	167	123	180	71	25	97	122	79
40	84	251	44	84	94	167	146	180	85	45	97	122	94
50	97	251	51	84	94	167	157	180	89	45	97	122	95
63	124	273	64	106	94	167	183	180	101	45	97	122	107
75	166	346	85	156	94	190	233	180	136	70	98	122	144
90	200	358	105	168	94	190	254	180	141	70	98	122	151
110	238	365	123	175	94	190	301	180	164	120	98	122	174



DN10/15-50



DN65-100

ABS metric

Ball valve type 130 ABS 100-230V With manual emergency override With threaded sockets Rp



DN10/15 - 50

Model:

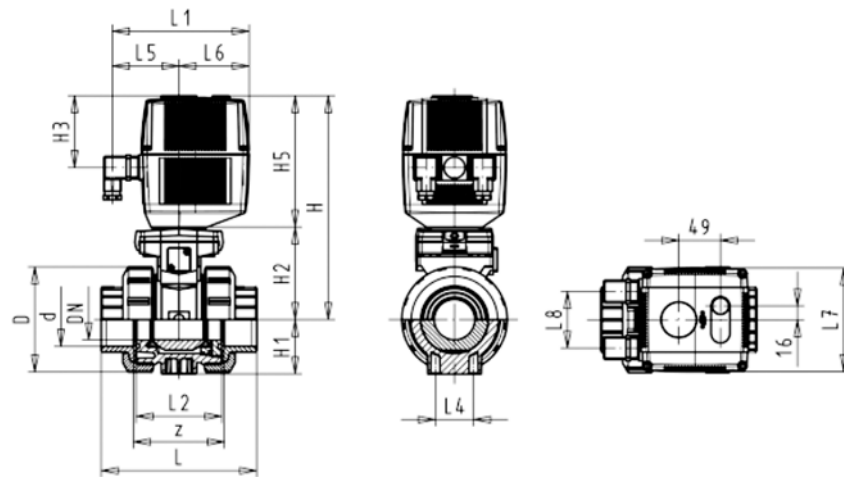
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Built on with electric actuator EA21
- Control time 5 s/90°<)

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	
3/8	10	10	70	199 130 722	
1/2	15	10	185	199 130 723	
3/4	20	10	350	199 130 724	
1	25	10	700	199 130 725	
1 1/4	32	10	1000	199 130 726	
1 1/2	40	10	1600	199 130 727	
2	50	10	3100	199 130 728	

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
3/8	50	231	27	64	94	167	92	180	56	25	97	83	122	66	64
1/2	50	231	27	64	94	167	95	180	56	25	97	83	122	66	64
3/4	58	240	30	73	94	167	110	180	65	25	97	83	122	66	72
1	68	240	36	73	94	167	123	180	71	25	97	83	122	66	79
1 1/4	84	251	44	84	94	167	146	180	85	45	97	83	122	66	94
1 1/2	97	251	51	84	94	167	157	180	89	45	97	83	122	66	95
2	124	273	64	106	94	167	183	180	101	45	97	83	122	66	107



ABS metric

Ball valve type 130 ABS 24V With manual emergency override With solvent cement sockets metric

Model:

- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

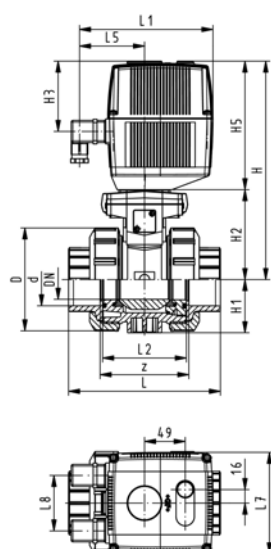


DN10/15 - 50

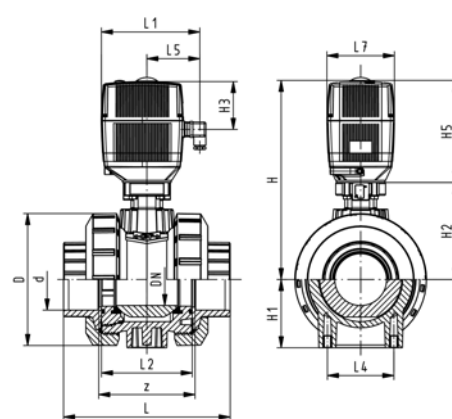


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
16	10	10	70	199 130 742
20	15	10	185	199 130 743
25	20	10	350	199 130 744
32	25	10	700	199 130 745
40	32	10	1000	199 130 746
50	40	10	1600	199 130 747
63	50	10	3100	199 130 748
75	65	10	5000	199 130 749
90	80	10	7000	199 130 750
110	100	10	11000	199 130 751

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
16	50	231	27	64	94	167	92	180	56	25	97	122	64
20	50	231	27	64	94	167	95	180	56	25	97	122	64
25	58	240	30	73	94	167	110	180	65	25	97	122	72
32	68	240	36	73	94	167	123	180	71	25	97	122	79
40	84	251	44	84	94	167	146	180	85	45	97	122	94
50	97	251	51	84	94	167	157	180	89	45	97	122	95
63	124	273	64	106	94	167	183	180	101	45	97	122	107
75	166	346	85	156	94	190	233	180	136	70	98	122	144
90	200	358	105	168	94	190	254	180	141	70	98	122	151
110	238	365	123	175	94	190	301	180	164	120	98	122	174



DN10/15-50



DN65-100

ABS metric

Ball valve type 130 ABS 24V With manual emergency override With threaded sockets Rp



DN10/15 - 50

Model:

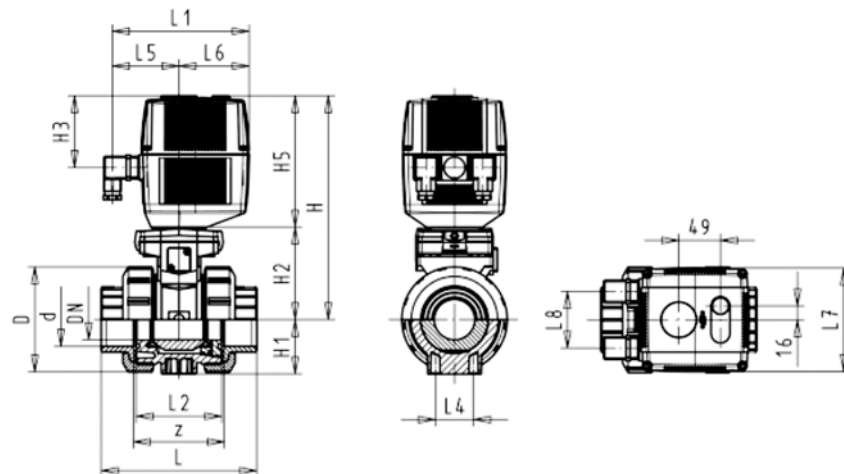
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Built on with electric actuator EA21
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

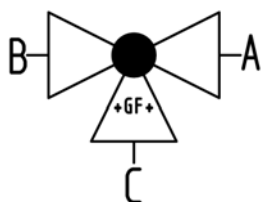
Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	
3/8	10	10	70	199 130 762	
1/2	15	10	185	199 130 763	
3/4	20	10	350	199 130 764	
1	25	10	700	199 130 765	
1 1/4	32	10	1000	199 130 766	
1 1/2	40	10	1600	199 130 767	
2	50	10	3100	199 130 768	

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
3/8	50	231	27	64	94	167	92	180	56	25	97	83	122	66	64
1/2	50	231	27	64	94	167	95	180	56	25	97	83	122	66	64
3/4	58	240	30	73	94	167	110	180	65	25	97	83	122	66	72
1	68	240	36	73	94	167	123	180	71	25	97	83	122	66	79
1 1/4	84	251	44	84	94	167	146	180	85	45	97	83	122	66	94
1 1/2	97	251	51	84	94	167	157	180	89	45	97	83	122	66	95
2	124	273	64	106	94	167	183	180	101	45	97	83	122	66	107



ABS metric

3-Way ball valve type 185 ABS Horizontal/L-port 100-230V With manual emergency override With solvent cement sockets metric



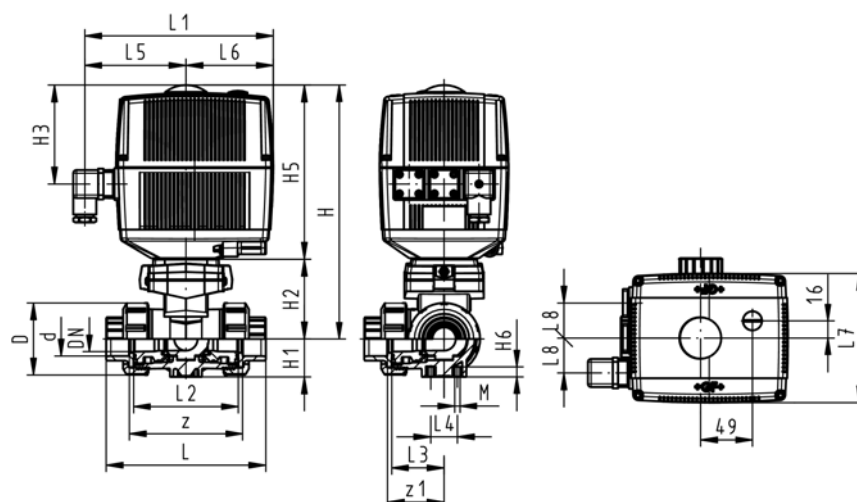
Model:

- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
16	10	10	50	199 185 162
20	15	10	75	199 185 163
25	20	10	150	199 185 164
32	25	10	280	199 185 165
40	32	10	480	199 185 166
50	40	10	620	199 185 167
63	50	10	1230	199 185 168

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	81	40
20	33	6	81	40
25	33	6	94	47
32	33	6	107	54
40	33	8	130	65
50	33	8	143	72
63	33	8	185	92



ABS metric

3-Way ball valve type 185 ABS

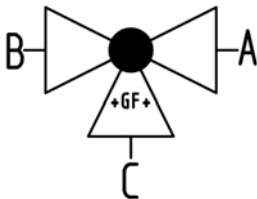
Horizontal/L-port 24V

With manual emergency override

With solvent cement sockets metric

Model:

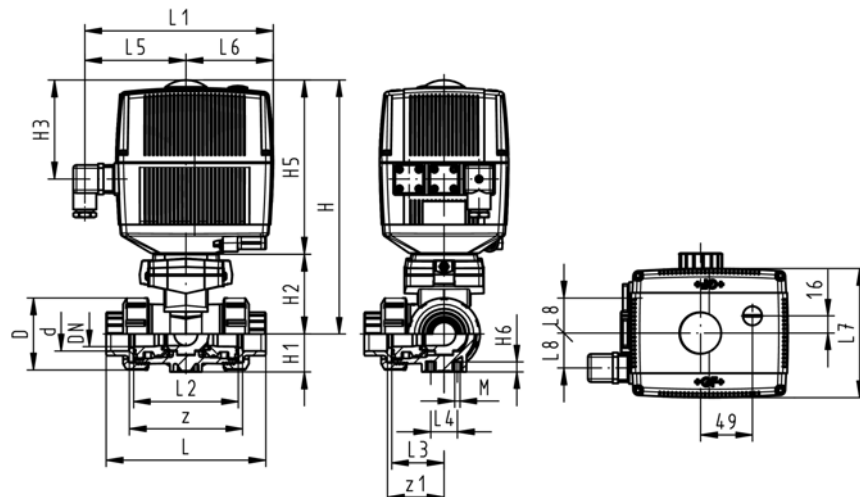
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
16	10	10	50	199 185 342
20	15	10	75	199 185 343
25	20	10	150	199 185 344
32	25	10	280	199 185 345
40	32	10	480	199 185 346
50	40	10	620	199 185 347
63	50	10	1230	199 185 348

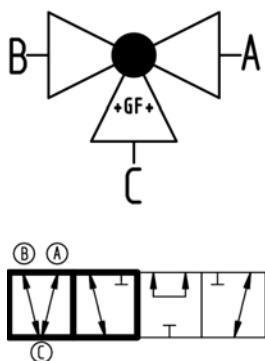
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	81	40
20	33	6	81	40
25	33	6	94	47
32	33	6	107	54
40	33	8	130	65
50	33	8	143	72
63	33	8	185	92



ABS metric

3-Way ball valve type 185 ABS Horizontal/T-port 100-230V With manual emergency override With solvent cement sockets metric



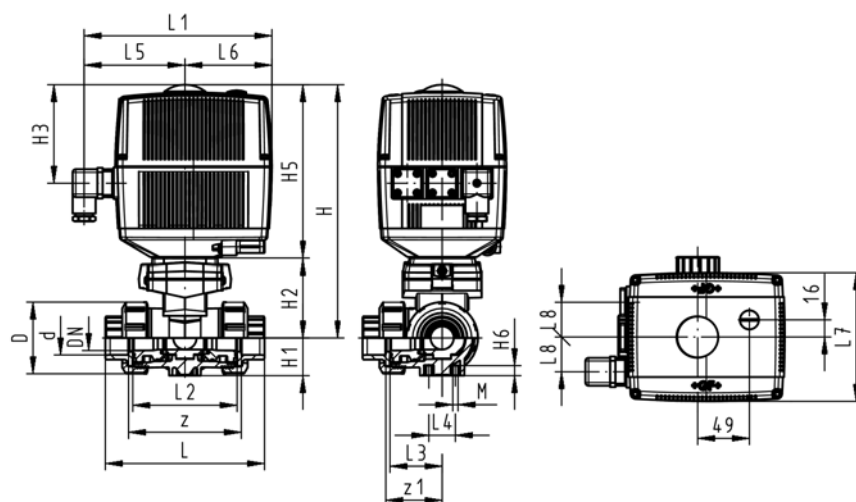
Model:

- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
16	10	10	140	199 185 172
20	15	10	200	199 185 173
25	20	10	470	199 185 174
32	25	10	793	199 185 175
40	32	10	1290	199 185 176
50	40	10	1910	199 185 177
63	50	10	3100	199 185 178

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	81	40
20	33	6	81	40
25	33	6	94	47
32	33	6	107	54
40	33	8	130	65
50	33	8	143	72
63	33	8	185	92



ABS metric

3-Way ball valve type 185 ABS

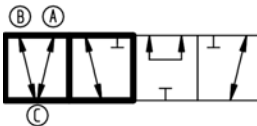
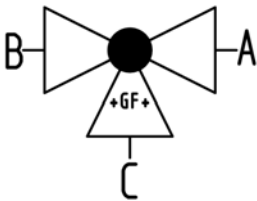
Horizontal/T-port 24V

With manual emergency override

With solvent cement sockets metric

Model:

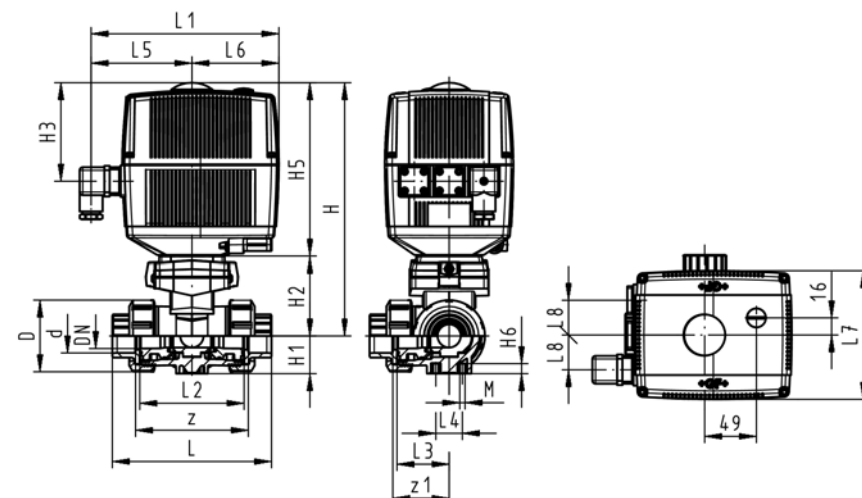
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
16	10	10	140	199 185 352
20	15	10	200	199 185 353
25	20	10	470	199 185 354
32	25	10	793	199 185 355
40	32	10	1290	199 185 356
50	40	10	1910	199 185 357
63	50	10	3100	199 185 358

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	81	40
20	33	6	81	40
25	33	6	94	47
32	33	6	107	54
40	33	8	130	65
50	33	8	143	72
63	33	8	185	92



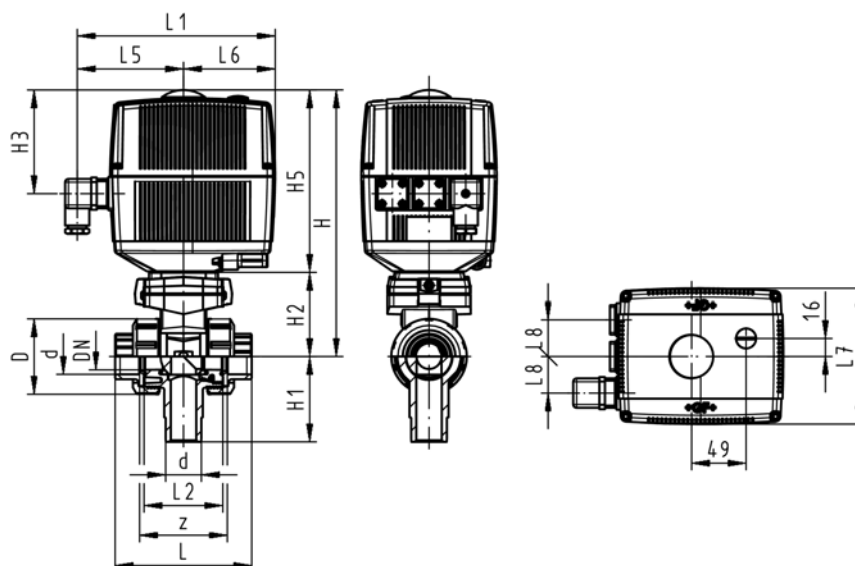
The top diagram shows a three-way valve with a central black circle. Two trapezoidal ports are on the left, labeled 'B' (top) and 'A' (bottom). A third trapezoidal port is on the right, labeled 'C'. Inside the right port, the text '+GF+' is written.

The bottom diagram shows the corresponding three-way circuit symbol. It consists of three rectangular boxes connected in a horizontal line. The left box has a diagonal line with an arrow pointing from the top-left to the bottom-right. The middle box is empty. The right box has a diagonal line with an arrow pointing from the bottom-left to the top-right. Above the left box is the label '(B)', above the middle box is the label '(A)', and below the right box is the label '(C)'.

- Vertical inlet solvent cement spigot metric
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 180°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 10 s/180°<)
- Easy installation and removal using union on third outlet

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	
16	10	10	49	199 188 162	
20	15	10	77	199 188 163	
25	20	10	146	199 188 164	
32	25	10	260	199 188 165	
40	32	10	437	199 188 166	
50	40	10	667	199 188 167	
63	50	10	1293	199 188 168	

d	D	H	H1	H2	H3	H5	L	L1	L2	L5	L6	L7	L8	z	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
16	50	231	62	64	94	167	92	180	56	97	83	122	33	64	
20	50	231	62	64	94	167	95	180	56	97	83	122	33	64	
25	58	240	72	73	94	167	111	180	66	97	83	122	33	74	
32	68	240	77	73	94	167	123	180	71	97	83	122	33	79	
40	84	251	87	84	94	167	146	180	85	97	83	122	33	95	
50	97	251	97	84	94	167	157	180	89	97	83	122	33	95	
63	124	273	112	106	94	167	183	180	101	97	83	122	33	107	



ABS metric

3-Way ball valve type 188 ABS

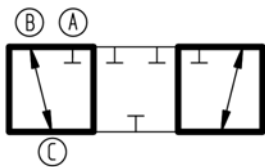
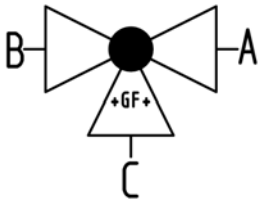
Vertical/L-port 24V

With manual emergency override

With solvent cement sockets metric

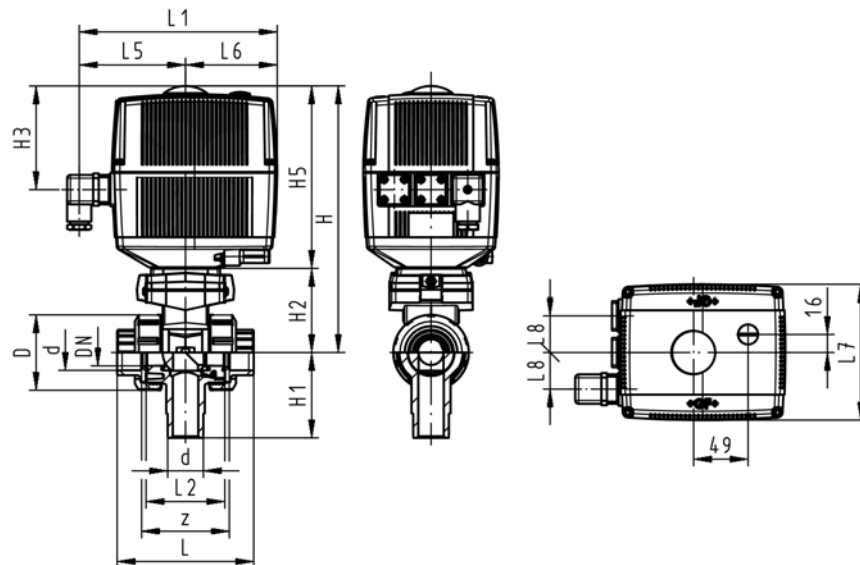
Model:

- Vertical inlet solvent cement spigot metric
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 180°<
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 10 s/180°<
- Easy installation and removal using union on third outlet



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
16	10	10	49	199 188 452
20	15	10	77	199 188 453
25	20	10	146	199 188 454
32	25	10	260	199 188 455
40	32	10	437	199 188 456
50	40	10	667	199 188 457
63	50	10	1293	199 188 458

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	231	62	64	94	167	92	180	56	97	83	122	33	64
20	50	231	62	64	94	167	95	180	56	97	83	122	33	64
25	58	240	72	73	94	167	111	180	66	97	83	122	33	74
32	68	240	77	73	94	167	123	180	71	97	83	122	33	79
40	84	251	87	84	94	167	146	180	85	97	83	122	33	95
50	97	251	97	84	94	167	157	180	89	97	83	122	33	95
63	124	273	112	106	94	167	183	180	101	97	83	122	33	107



ABS metric

Ball valves pneumatic

Ball valve type 230 ABS FC (Fail safe to close)

With manual override

With solvent cement sockets metric

Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

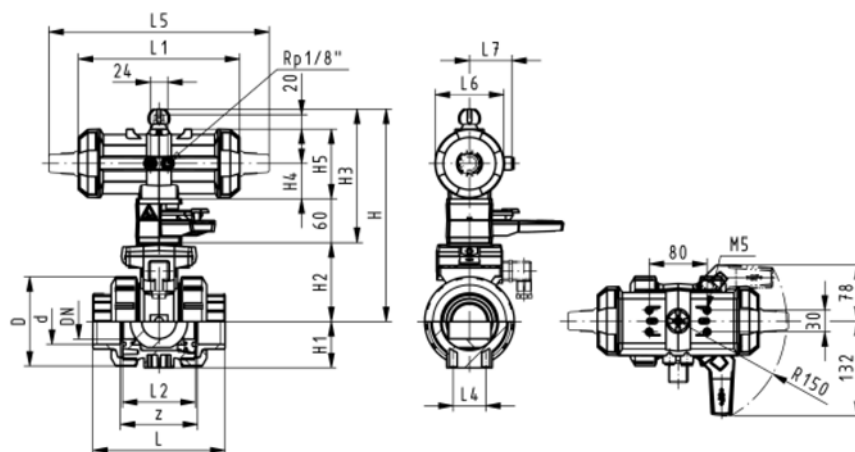
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
16	10	10	70	199 230 702
20	15	10	185	199 230 703
25	20	10	350	199 230 704
32	25	10	700	199 230 705
40	32	10	1000	199 230 706
50	40	10	1600	199 230 707
63	50	10	3100	199 230 708

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



ABS metric

Ball valve type 230 ABS FC (Fail safe to close) With manual override With threaded sockets Rp



DN10/15 - 50

Model:

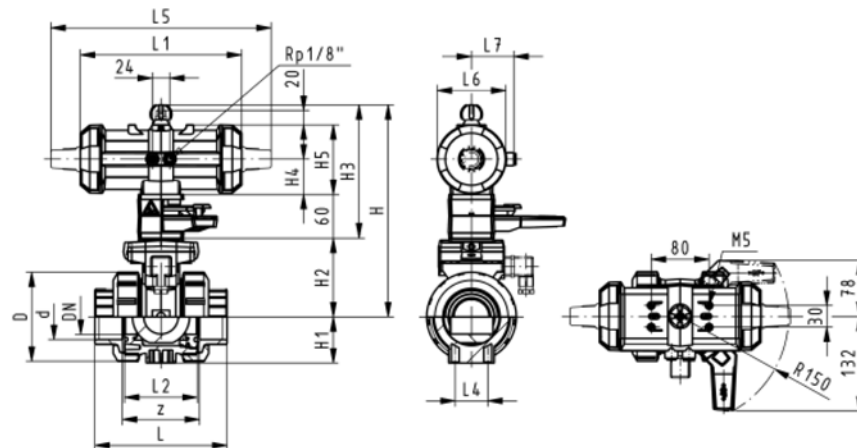
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°< 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
3/8	10	10	70	199 230 722
1/2	15	10	185	199 230 723
3/4	20	10	350	199 230 724
1	25	10	700	199 230 725
1 1/4	32	10	1000	199 230 726
1 1/2	40	10	1600	199 230 727
2	50	10	3100	199 230 728

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
1	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



ABS metric

Ball valve type 230 ABS FO (Fail safe to open) With manual override With solvent cement sockets metric



DN10/15 - 50

Model:

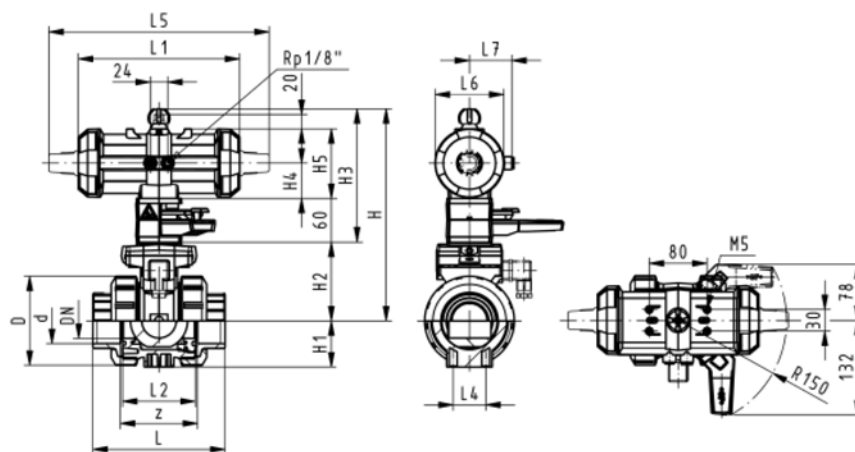
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
16	10	10	70	199 230 742
20	15	10	185	199 230 743
25	20	10	350	199 230 744
32	25	10	700	199 230 745
40	32	10	1000	199 230 746
50	40	10	1600	199 230 747
63	50	10	3100	199 230 748

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107

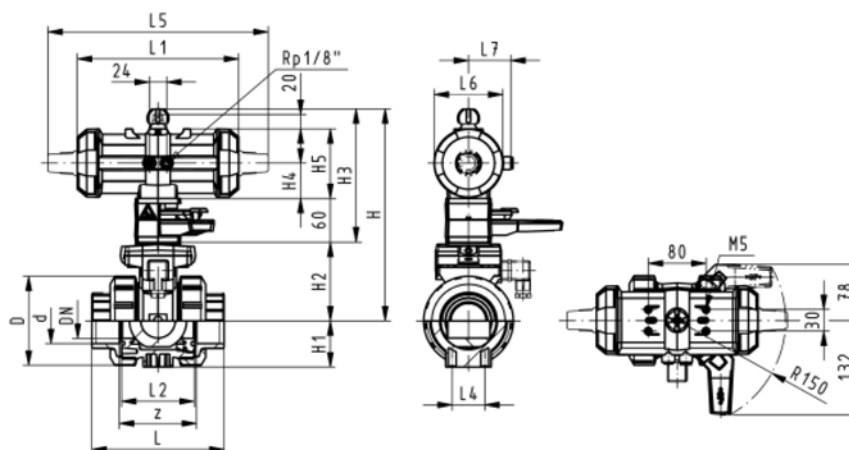


Model:

- Option:**

- | Rp
[inch] | DN
[mm] | PN | kv-value
($\Delta p=1$ bar)
[l/min] | EPDM
Code | |
|---------------------|-------------------|-----------|--|----------------------------|--|
| 3/8 | 10 | 10 | 70 | 199 230 762 | |
| 1/2 | 15 | 10 | 185 | 199 230 763 | |
| 3/4 | 20 | 10 | 350 | 199 230 764 | |
| 1 | 25 | 10 | 700 | 199 230 765 | |
| 1 1/4 | 32 | 10 | 1000 | 199 230 766 | |
| 1 1/2 | 40 | 10 | 1600 | 199 230 767 | |
| 2 | 50 | 10 | 3100 | 199 230 768 | |

Rp	D	H	H1	H2	H3	H4	H5	L	L1	L2	L4	L5	L6	L7	z
[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
⅜	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
½	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
¾	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
1	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
1 ¼	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
1 ½	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



ABS metric

Ball valve type 230 ABS DA (Double acting)

With manual override

With solvent cement sockets metric

Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

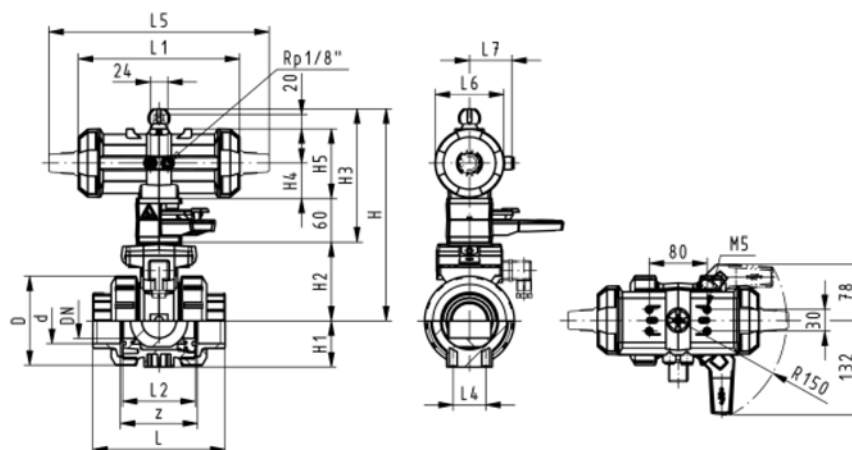
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
16	10	10	70	199 230 782
20	15	10	185	199 230 783
25	20	10	350	199 230 784
32	25	10	700	199 230 785
40	32	10	1000	199 230 786
50	40	10	1600	199 230 787
63	50	10	3100	199 230 788

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



Technical drawings of the 3000 Series Ball Valve showing front, side, and top views with dimensions:

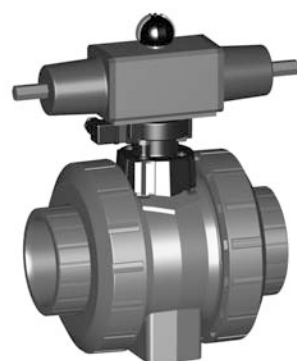
- Front View (Left):** Shows the valve body with dimensions L5, L1, 24, Rp1/8", 20, H4, H5, H3, H, H2, H1, L2, Z, L, and DN.
- Side View (Middle):** Shows the valve body with dimensions L7, L6, and L4.
- Top View (Right):** Shows the valve body with dimensions 80, M5, 30, 78, 132, and R150.

ABS metric

Ball valve type 230 ABS FC (Fail safe to close) Without manual override With solvent cement sockets metric



DN10/15 - 50



Model:

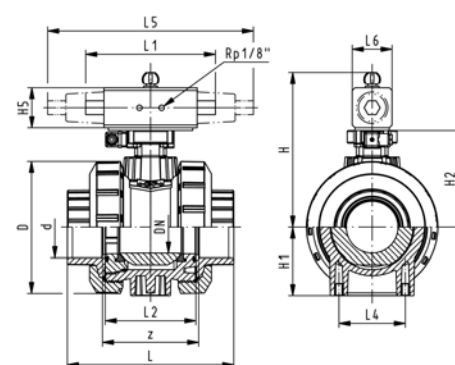
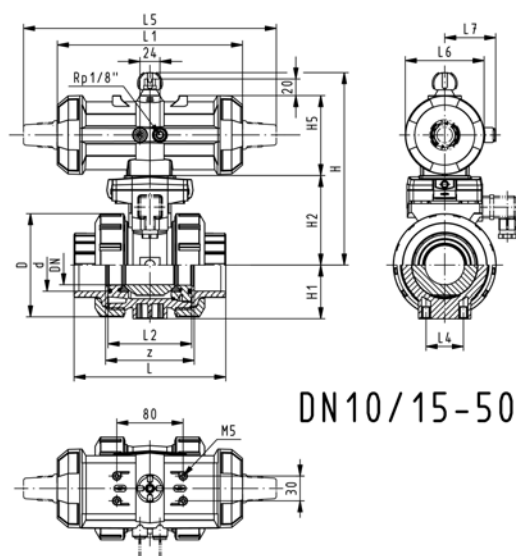
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
16	10	10	70	199 230 822
20	15	10	185	199 230 823
25	20	10	350	199 230 824
32	25	10	700	199 230 825
40	32	10	1000	199 230 826
50	40	10	1600	199 230 827
63	50	10	3100	199 230 828
75	65	10	5000	199 230 829
90	80	10	7000	199 230 830
110	100	10	11000	199 230 831

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	77	92	194	56	25	261	76	48	64
20	50	159	27	62	77	95	194	56	25	261	76	48	64
25	58	168	30	71	77	110	194	65	25	261	76	48	72
32	68	168	36	71	77	123	194	71	25	261	76	48	79
40	84	202	44	84	99	146	224	85	45	305	95	59	94
50	97	202	51	84	99	157	224	89	45	305	95	59	95
63	124	225	64	106	99	183	224	101	45	305	95	59	107
75	166	262	85	156	70	233		136	70	276	65		144
90	200	281	105	168	78	254		141	70	341	72		151
110	238	292	123	175	86	301		164	120	369	80		174



ABS metric

Ball valve type 230 ABS FC (Fail safe to close) Without manual override With threaded sockets Rp



DN10/15 - 50

Model:

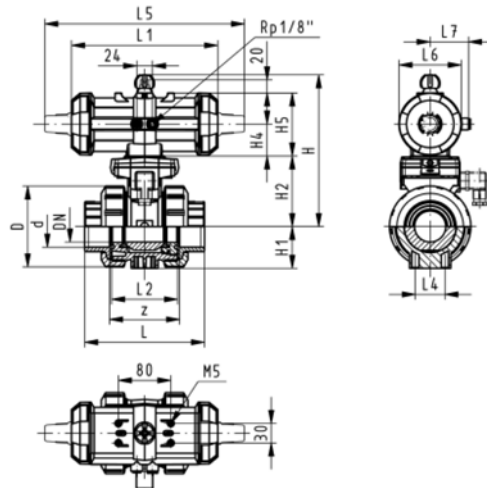
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°< 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
3/8	10	10	70	199 230 842
1/2	15	10	185	199 230 843
3/4	20	10	350	199 230 844
1	25	10	700	199 230 845
1 1/4	32	10	1000	199 230 846
1 1/2	40	10	1600	199 230 847
2	50	10	3100	199 230 848

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	40	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	40	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	40	77	110	194	65	25	261	76	48	72
1	68	168	36	71	40	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	51	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	51	99	157	224	89	45	305	95	59	95
2	124	225	64	106	51	99	183	224	101	45	305	95	59	107



ABS metric

Ball valve type 230 ABS FO (Fail safe to open)

Without manual override

With solvent cement sockets metric

Model:

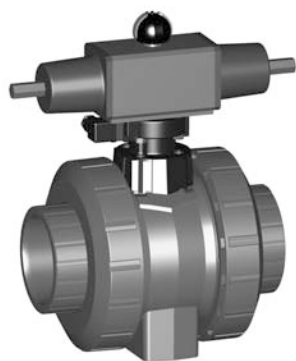
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

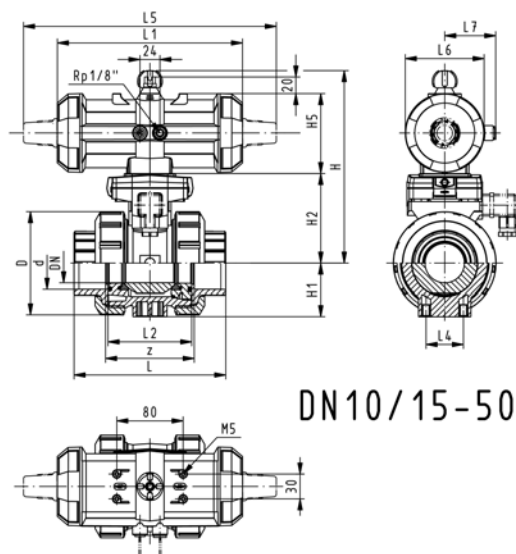


DN10/15 - 50

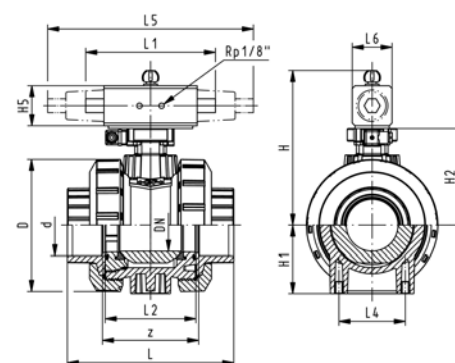


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
16	10	10	70	199 230 862
20	15	10	185	199 230 863
25	20	10	350	199 230 864
32	25	10	700	199 230 865
40	32	10	1000	199 230 866
50	40	10	1600	199 230 867
63	50	10	3100	199 230 868
75	65	10	5000	199 230 869
90	80	10	7000	199 230 870
110	100	10	11000	199 230 871

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	51	99	183	224	101	45	305	95	59	107
75	166	262	85	156		70	233		136	70	276	65		144
90	200	281	105	168		78	254		141	70	341	72		151
110	238	292	123	175		86	301		164	120	369	80		174



DN10/15-50



DN65-100

ABS metric

Ball valve type 230 ABS FO (Fail safe to open) Without manual override With threaded sockets Rp



DN10/15 - 50

Model:

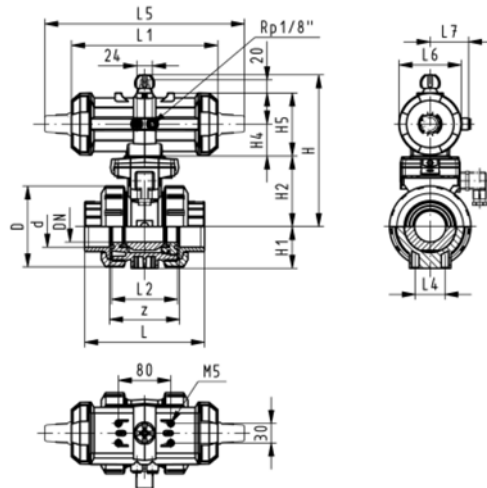
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°< 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
3/8	10	10	70	199 230 882
1/2	15	10	185	199 230 883
3/4	20	10	350	199 230 884
1	25	10	700	199 230 885
1 1/4	32	10	1000	199 230 886
1 1/2	40	10	1600	199 230 887
2	50	10	3100	199 230 888

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	40	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	40	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	40	77	110	194	65	25	261	76	48	72
1	68	168	36	71	40	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	51	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	51	99	157	224	89	45	305	95	59	95
2	124	225	64	106	51	99	183	224	101	45	305	95	59	107



ABS metric

Ball valve type 230 ABS DA (Double acting) Without manual override With solvent cement sockets metric



DN10/15 - 50



Model:

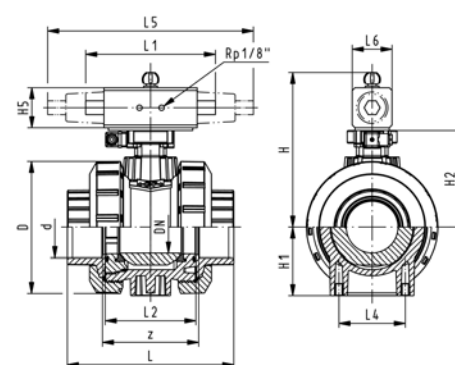
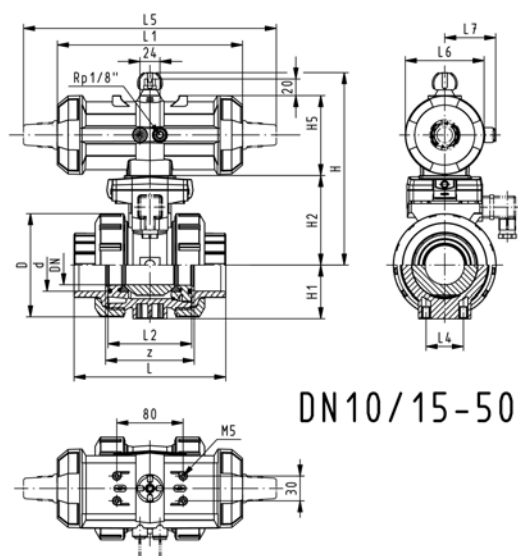
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°< 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
16	10	10	70	199 230 902
20	15	10	185	199 230 903
25	20	10	350	199 230 904
32	25	10	700	199 230 905
40	32	10	1000	199 230 906
50	40	10	1600	199 230 907
63	50	10	3100	199 230 908
75	65	10	5000	199 230 909
90	80	10	7000	199 230 910
110	100	10	11000	199 230 911

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	77	92	194	56	25	261	76	48	64
20	50	159	27	62	77	95	194	56	25	261	76	48	64
25	58	168	30	71	77	110	194	65	25	261	76	48	72
32	68	168	36	71	77	123	194	71	25	261	76	48	79
40	84	202	44	84	99	146	224	85	45	305	95	59	94
50	97	202	51	84	99	157	224	89	45	305	95	59	95
63	124	225	64	106	99	183	224	101	45	305	95	59	107
75	166	257	85	156	66	233	144	136	70		60		144
90	200	274	105	168	70	254	152	141	70		65		151
110	238	273	123	175	78	301	169	164	120		72		174



ABS metric

Ball valve type 230 ABS DA (Double acting) Without manual override With threaded sockets Rp



DN10/15 - 50

Model:

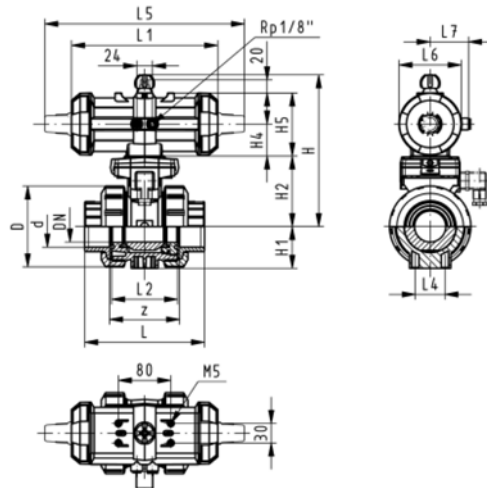
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°< 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
3/8	10	10	70	199 230 922
1/2	15	10	185	199 230 923
3/4	20	10	350	199 230 924
1	25	10	700	199 230 925
1 1/4	32	10	1000	199 230 926
1 1/2	40	10	1600	199 230 927
2	50	10	3100	199 230 928

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	40	77	92	194	56	25	261	76	48	64
1/2	50	159	27	62	40	77	95	194	56	25	261	76	48	64
3/4	58	168	30	71	40	77	110	194	65	25	261	76	48	72
1	68	168	36	71	40	77	123	194	71	25	261	76	48	79
1 1/4	84	202	44	84	51	99	146	224	85	45	305	95	59	94
1 1/2	97	202	51	84	51	99	157	224	89	45	305	95	59	95
2	124	225	64	106	51	99	183	224	101	45	305	95	59	107



ABS metric

3-Way ball valve type 285 ABS

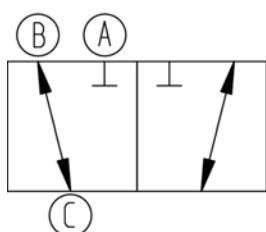
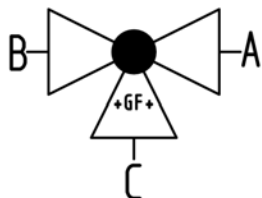
Horizontal/L-port

Without manual override

With solvent cement sockets metric

Model:

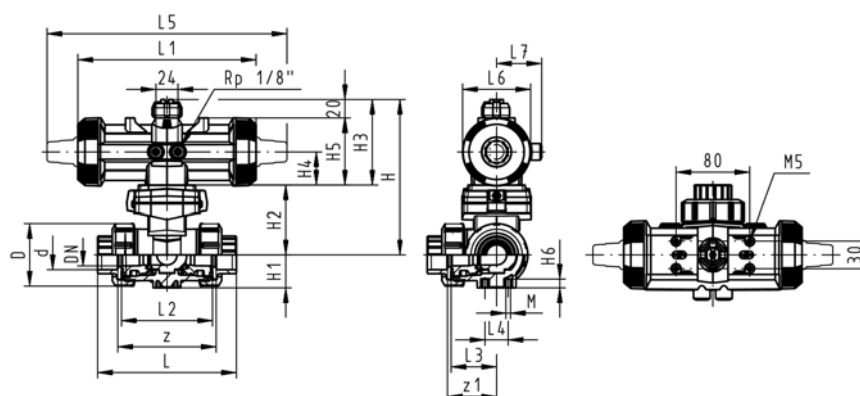
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
16	10	10	50	199 285 162
20	15	10	75	199 285 163
25	20	10	150	199 285 164
32	25	10	280	199 285 165
40	32	10	480	199 285 166
50	40	10	620	199 285 167
63	50	10	1230	199 285 168

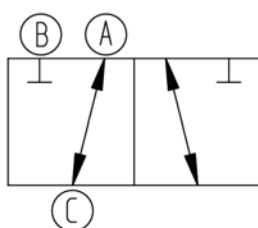
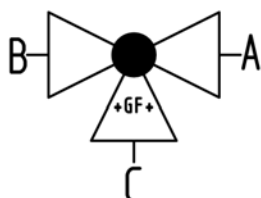
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	81	40
20	48	6	81	40
25	48	6	94	47
32	48	6	107	54
40	59	8	130	65
50	59	8	143	72
63	59	8	185	92



ABS metric

3-Way ball valve type 285 ABS Horizontal/L-port DA (Double acting) Without manual override With solvent cement sockets metric



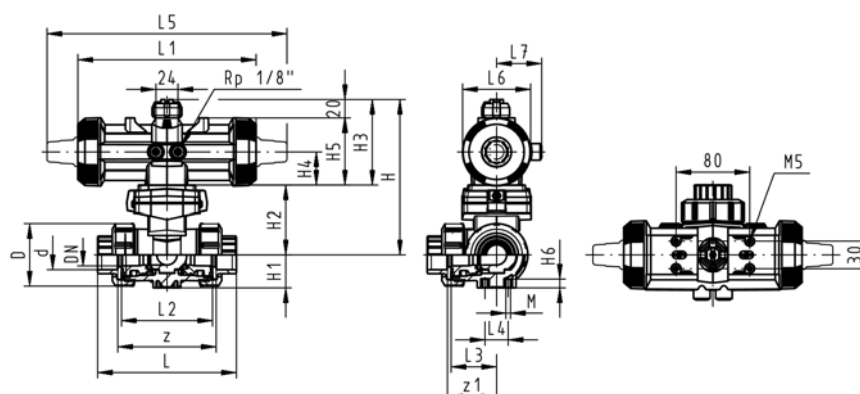
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
16	10	10	50	199 285 342
20	15	10	75	199 285 343
25	20	10	150	199 285 344
32	25	10	280	199 285 345
40	32	10	480	199 285 346
50	40	10	620	199 285 347
63	50	10	1230	199 285 348

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	81	40
20	48	6	81	40
25	48	6	94	47
32	48	6	107	54
40	59	8	130	65
50	59	8	143	72
63	59	8	185	92



ABS metric

3-Way ball valve type 285 ABS

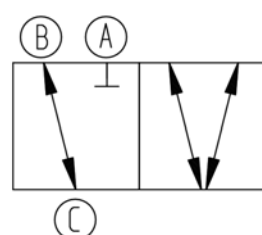
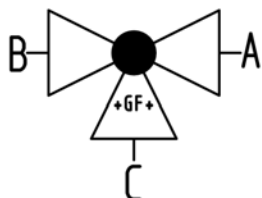
Horizontal/T-port

Without manual override

With solvent cement sockets metric

Model:

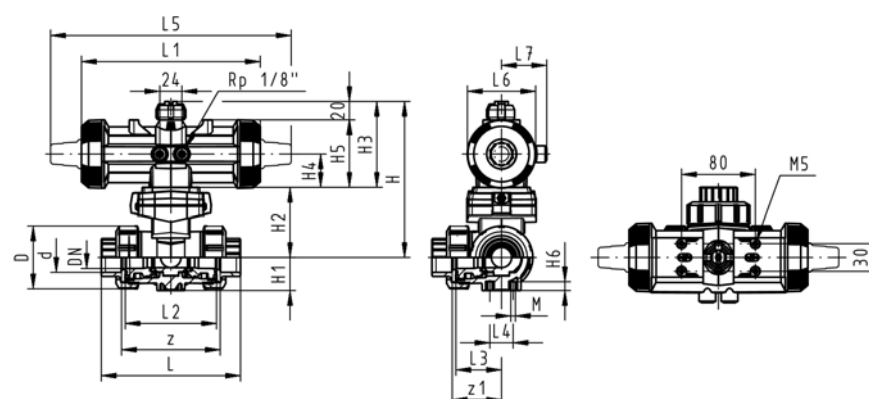
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
16	10	10	140	199 285 172
20	15	10	200	199 285 173
25	20	10	470	199 285 174
32	25	10	793	199 285 175
40	32	10	1290	199 285 176
50	40	10	1910	199 285 177
63	50	10	3100	199 285 178

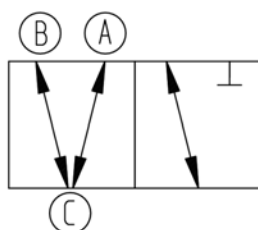
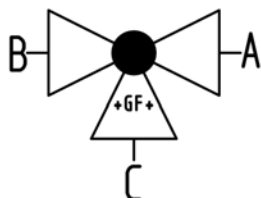
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	81	40
20	48	6	81	40
25	48	6	94	47
32	48	6	107	54
40	59	8	130	65
50	59	8	143	72
63	59	8	185	92



ABS metric

3-Way ball valve type 285 ABS Horizontal/T-port DA (Double acting) Without manual override With solvent cement sockets metric



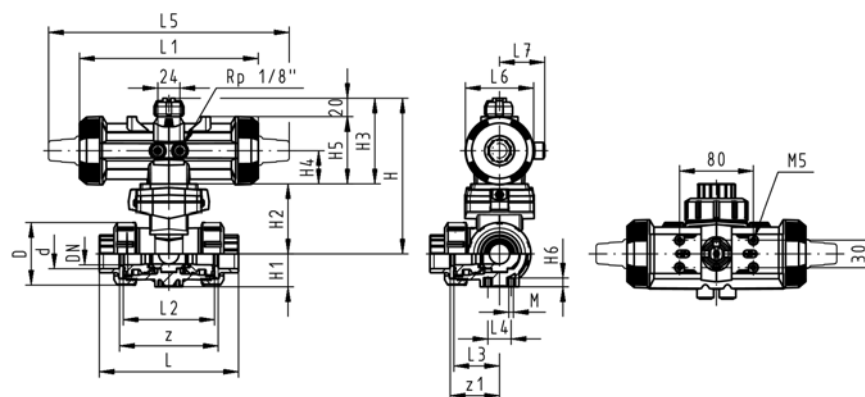
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
16	10	10	140	199 285 352
20	15	10	200	199 285 353
25	20	10	470	199 285 354
32	25	10	793	199 285 355
40	32	10	1290	199 285 356
50	40	10	1910	199 285 357
63	50	10	3100	199 285 358

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
25	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
32	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
40	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
50	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
63	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	81	40
20	48	6	81	40
25	48	6	94	47
32	48	6	107	54
40	59	8	130	65
50	59	8	143	72
63	59	8	185	92



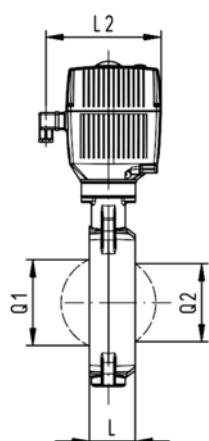
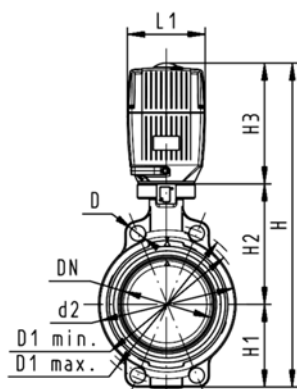
ABS metric

Butterfly valves electric

Butterfly valve type 140 ABS 100-230V Without manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
63	50	10	1470	199 140 502
75	65	10	2200	199 140 503
90	80	10	3000	199 140 504
110	100	10	6500	199 140 505
140	125	10	11500	199 140 506
160	150	10	16600	199 140 507
225	200	10	39600	199 140 508

d [mm]	Actuator unit type	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]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178

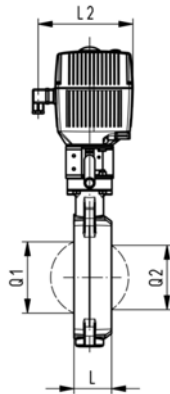
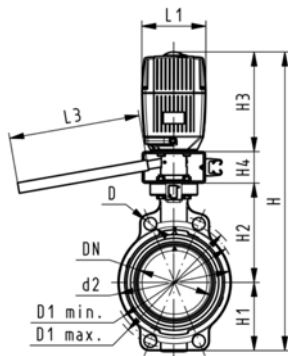
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

ABS metric

Butterfly valve type 140 ABS 100-230V With manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
63	50	10	1470	199 140 482
75	65	10	2200	199 140 483
90	80	10	3000	199 140 484
110	100	10	6500	199 140 485
140	125	10	11500	199 140 486
160	150	10	16600	199 140 487
225	200	10	39600	199 140 488

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

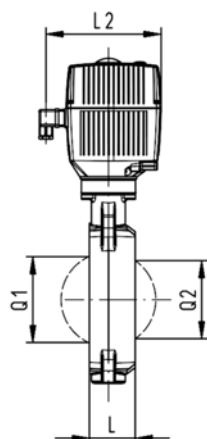
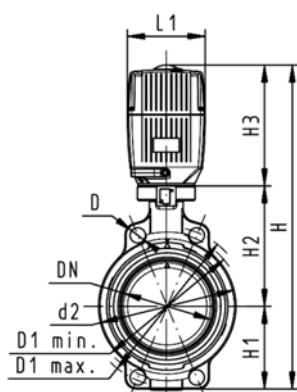
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

ABS metric

Butterfly valve type 140 ABS 24V Without manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
63	50	10	1470	199 140 542
75	65	10	2200	199 140 543
90	80	10	3000	199 140 544
110	100	10	6500	199 140 545
140	125	10	11500	199 140 546
160	150	10	16600	199 140 547
225	200	10	39600	199 140 548

d [mm]	Actuator unit type	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]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178

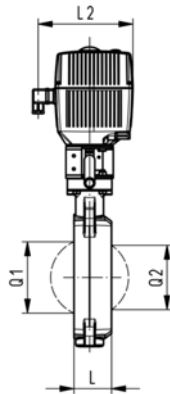
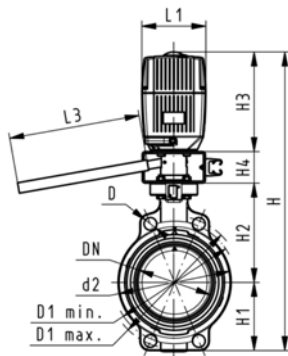
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

ABS metric

Butterfly valve type 140 ABS 24V With manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
63	50	10	1470	199 140 522
75	65	10	2200	199 140 523
90	80	10	3000	199 140 524
110	100	10	6500	199 140 525
140	125	10	11500	199 140 526
160	150	10	16600	199 140 527
225	200	10	39600	199 140 528

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

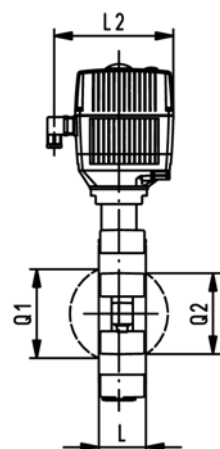
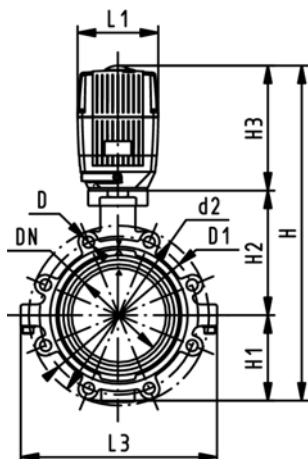
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

ABS metric

Lugstyle butterfly valve type 141 ABS 100-230V Without manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
63	50	10	1470	199 141 502
75	65	10	2200	199 141 503
90	80	10	3000	199 141 504
110	100	10	6500	199 141 505
140	125	10	11500	199 141 506
160	150	10	16600	199 141 507
225	200	10	39600	199 141 508

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	EA-31	M16	125	150	399	77	134	188	45	122	180	150	40
75	EA-31	M16	145	170	411	83	140	188	46	122	180	160	54
90	EA-31	M16	160	184	423	89	146	188	49	122	180	205	67
110	EA-31	M16	180	216	459	104	167	188	56	122	180	244	88
140	EA-31	M16	210	246	486	117	181	188	64	122	180	272	113
160	EA-31	M20	240	273	507	130	189	188	72	122	180	297	139
225	EA-42	M20	295	334	576	158	210	208	73	122	180	360	178

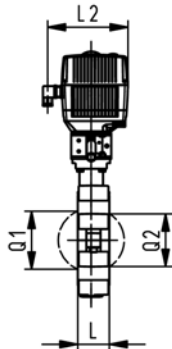
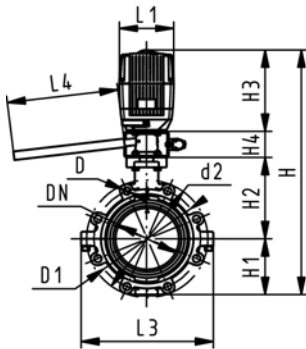
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

ABS metric

Lugstyle butterfly valve type 141 ABS 100-230V With manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	
63	50	10	1470	199 141 482	
75	65	10	2200	199 141 483	
90	80	10	3000	199 141 484	
110	100	10	6500	199 141 485	
140	125	10	11500	199 141 486	
160	150	10	16600	199 141 487	
225	200	10	39600	199 141 488	

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	
63	EA-31	M16	125	150	459	77	134	188	60	45	122	180	150	
75	EA-31	M16	145	170	471	83	140	188	60	46	122	180	160	
90	EA-31	M16	160	184	483	89	146	188	60	49	122	180	205	
110	EA-31	M16	180	216	519	104	167	188	60	56	122	180	244	
140	EA-31	M16	210	246	546	117	181	188	60	64	122	180	272	
160	EA-31	M20	240	273	567	130	189	188	60	72	122	180	297	
225	EA-42	M20	295	334	636	158	210	208	60	73	122	180	360	

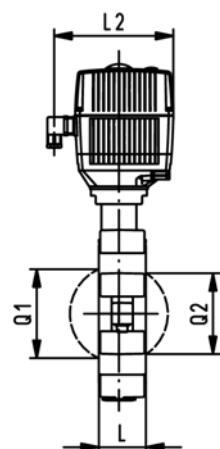
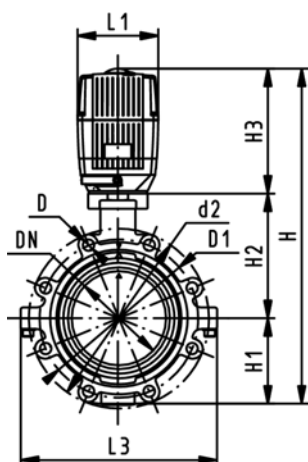
d [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]	
63	200	40		
75	200	54	35	
90	200	67	50	
110	250	88	74	
140	250	113	97	
160	250	139	123	
225	250	178	169	

ABS metric

Lugstyle butterfly valve type 141 ABS 24V Without manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
63	50	10	1470	199 141 542
75	65	10	2200	199 141 543
90	80	10	3000	199 141 544
110	100	10	6500	199 141 545
140	125	10	11500	199 141 546
160	150	10	16600	199 141 547
225	200	10	39600	199 141 548

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	EA-31	M16	125	150	399	77	134	188	45	122	180	150	40
75	EA-31	M16	145	170	411	83	140	188	46	122	180	160	54
90	EA-31	M16	160	184	423	89	146	188	49	122	180	205	67
110	EA-31	M16	180	216	459	104	167	188	56	122	180	244	88
140	EA-31	M16	210	246	486	117	181	188	64	122	180	272	113
160	EA-31	M20	240	273	507	130	189	188	72	122	180	297	139
225	EA-42	M20	295	334	576	158	210	208	73	122	180	360	178

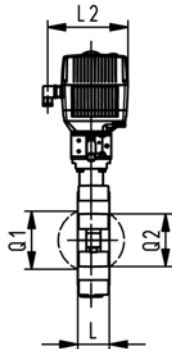
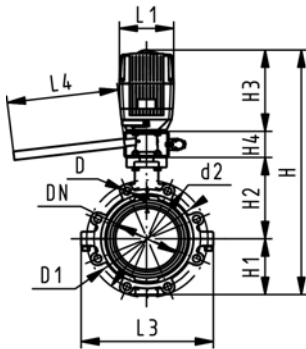
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

ABS metric

Lugstyle butterfly valve type 141 ABS 24V With manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	
63	50	10	1470	199 141 522	
75	65	10	2200	199 141 523	
90	80	10	3000	199 141 524	
110	100	10	6500	199 141 525	
140	125	10	11500	199 141 526	
160	150	10	16600	199 141 527	
225	200	10	39600	199 141 528	

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	
63	EA-31	M16	125	150	459	77	134	188	60	45	122	180	150	
75	EA-31	M16	145	170	471	83	140	188	60	46	122	180	160	
90	EA-31	M16	160	184	483	89	146	188	60	49	122	180	205	
110	EA-31	M16	180	216	519	104	167	188	60	56	122	180	244	
140	EA-31	M16	210	246	546	117	181	188	60	64	122	180	272	
160	EA-31	M20	240	273	567	130	189	188	60	72	122	180	297	
225	EA-42	M20	295	334	636	158	210	208	60	73	122	180	360	

d [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]	
63	200	40		
75	200	54	35	
90	200	67	50	
110	250	88	74	
140	250	113	97	
160	250	139	123	
225	250	178	169	

ABS metric

Butterfly valves pneumatic

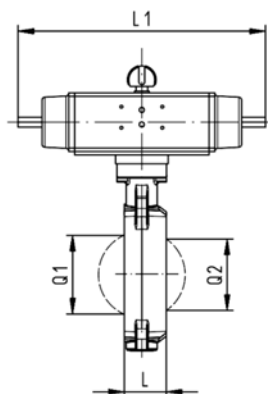
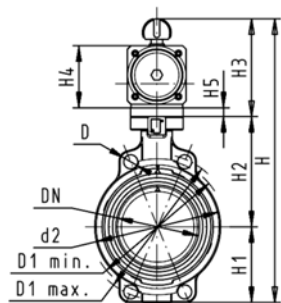
Butterfly valve type 240 ABS

FC (Fail safe to close)

Without manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Control range 90°<



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
63	50	10	1470	199 240 402
75	65	10	2200	199 240 403
90	80	10	3000	199 240 404
110	100	10	6500	199 240 405
140	125	10	11500	199 240 406
160	150	10	16600	199 240 407
225	200	10	39600	199 240 408

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FC	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FC	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FC	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FC	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FC	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FC	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FC	23	290.0	295.0	267	529	158	210	161	118		73	452

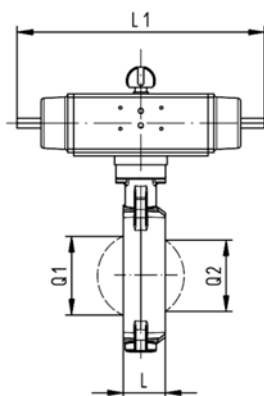
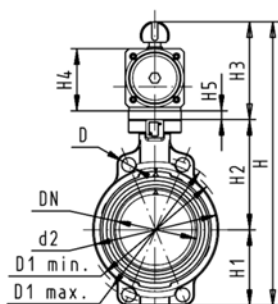
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169

ABS metric

Butterfly valve type 240 ABS FO (Fail safe to open) Without manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Control range 90°<)



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
63	50	10	1470	199 240 422
75	65	10	2200	199 240 423
90	80	10	3000	199 240 424
110	100	10	6500	199 240 425
140	125	10	11500	199 240 426
160	150	10	16600	199 240 427
225	200	10	39600	199 240 428

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FO	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FO	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FO	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FO	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FO	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FO	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FO	23	290.0	295.0	267	529	158	210	161	118		73	452

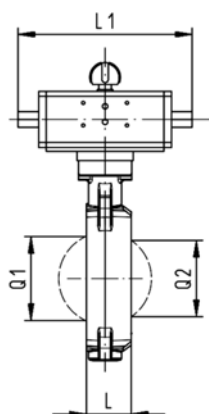
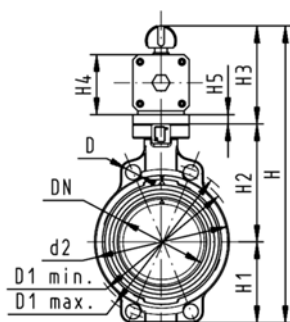
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169

ABS metric

Butterfly valve type 240 ABS DA (Double acting) Without manual override

Model:

- 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
- Overall length according to EN 558, ISO 5752
- Control range 90°<



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
63	50	10	1470	199 240 442
75	65	10	2200	199 240 443
90	80	10	3000	199 240 444
110	100	10	6500	199 240 445
140	125	10	11500	199 240 446
160	150	10	16600	199 240 447
225	200	10	39600	199 240 448

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-35 DA	19	120.0	125.0	104	317	77	134	107	60	15	45	177
75	PA-35 DA	19	139.7	145.0	115	330	83	140	107	60	15	46	177
90	PA-40 DA	19	150.0	160.0	131	348	89	146	113	66	15	49	190
110	PA-45 DA	19	175.0	190.5	161	372	104	167	102	71		56	235
140	PA-45 DA	23	210.0	215.9	187	408	117	181	111	78		64	235
160	PA-55 DA	24	241.3	241.3	215	448	130	189	129	86		72	279
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	55	40	
75	55	54	35
90	60	67	50
110	65	88	74
140	72	113	97
160	80	139	123
225	90	178	169

ABS metric

Lugstyle butterfly valve type 241 ABS FC (Fail safe to close) Without manual override



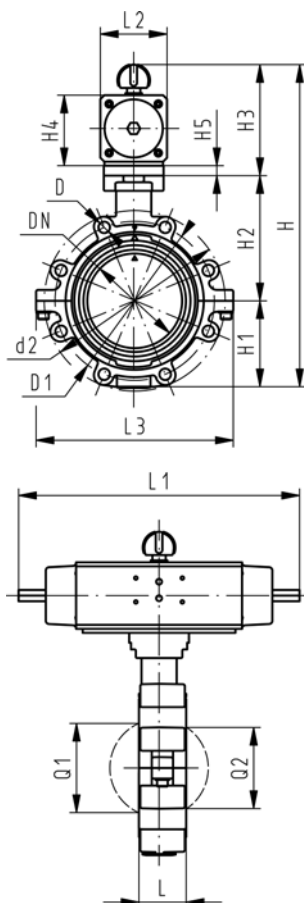
Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
63	50	10	1470	199 241 402
75	65	10	2200	199 241 403
90	80	10	3000	199 241 404
110	100	10	6500	199 241 405
140	125	10	11500	199 241 406
160	150	10	16600	199 241 407
225	200	10	39600	199 241 408

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-30 FC	M16	125	150	328	77	134	117	70	15	45	276	65
75	PA-30 FC	M16	145	170	340	83	140	117	70	15	46	276	65
90	PA-35 FC	M16	160	184	361	89	146	126	78	15	49	326	72
110	PA-40 FC	M16	180	216	400	104	167	129	86		56	370	80
140	PA-45 FC	M16	210	246	437	117	181	139	96		64	411	90
160	PA-50 FC	M20	240	273	468	130	189	149	106		72	423	100
225	PA-55 FC	M20	295	334	529	158	210	161	118		73	452	112

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	40	
75	160	54	35
90	205	67	50
110	244	88	74
140	272	113	97
160	297	139	123
225	360	178	169



ABS metric

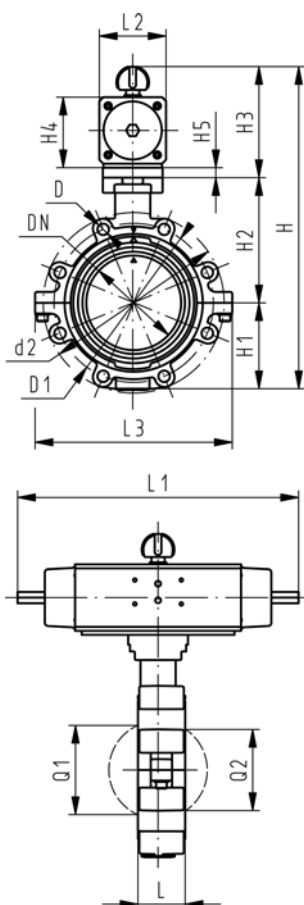
Lugstyle butterfly valve type 241 ABS

FO (Fail safe to open)

Without manual override

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<



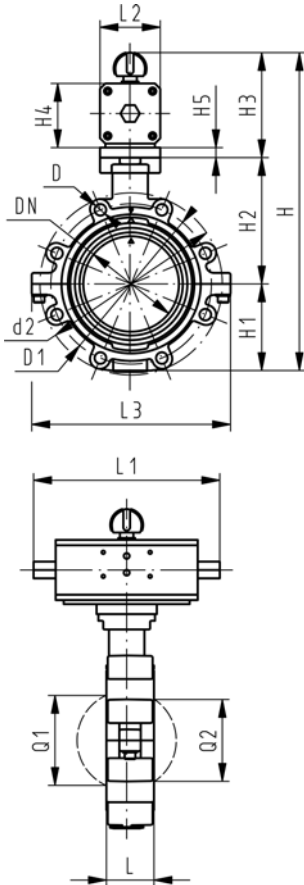
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
63	50	10	1470	199 241 422
75	65	10	2200	199 241 423
90	80	10	3000	199 241 424
110	100	10	6500	199 241 425
140	125	10	11500	199 241 426
160	150	10	16600	199 241 427
225	200	10	39600	199 241 428

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-30 FO	M16	125	150	328	77	134	117	70	15	45	276	65
75	PA-30 FO	M16	145	170	340	83	140	117	70	15	46	276	65
90	PA-35 FO	M16	160	184	361	89	146	126	78	15	49	326	72
110	PA-40 FO	M16	180	216	400	104	167	129	86		56	370	80
140	PA-45 FO	M16	210	246	437	117	181	139	96		64	411	90
160	PA-50 FO	M20	240	273	468	130	189	149	106		72	423	100
225	PA-55 FO	M20	295	334	529	158	210	161	118		73	452	112

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	40	
75	160	54	35
90	205	67	50
110	244	88	74
140	272	113	97
160	297	139	123
225	360	178	169

ABS metric

Lugstyle butterfly valve type 241 ABS DA (Double acting) Without manual override



Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
63	50	10	1470	199 241 442
75	65	10	2200	199 241 443
90	80	10	3000	199 241 444
110	100	10	6500	199 241 445
140	125	10	11500	199 241 446
160	150	10	16600	199 241 447
225	200	10	39600	199 241 448

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-35 DA	M16	125	150	318	77	134	107	60	15	45	177	55
75	PA-35 DA	M16	145	170	330	83	140	107	60	15	46	177	55
90	PA-40 DA	M16	160	184	348	89	146	113	66	15	49	190	60
110	PA-45 DA	M16	180	216	373	104	167	102	71		56	235	65
140	PA-45 DA	M16	210	246	409	117	181	111	78		64	235	72
160	PA-55 DA	M20	240	273	448	130	189	129	86		72	279	80
225	PA-55 DA	M20	295	334	507	158	210	139	96		73	279	90

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	40	
75	160	54	35
90	205	67	50
110	244	88	74
140	272	113	97
160	297	139	123
225	360	178	169

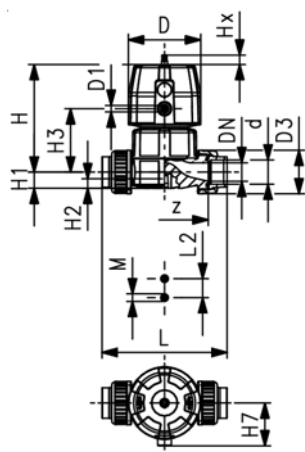
ABS metric

Diaphragm valves pneumatic New generation

Diaphragm valve DIASTAR Six ABS

FC (Fail safe to close)

Unions with solvent cement sockets metric



Model:

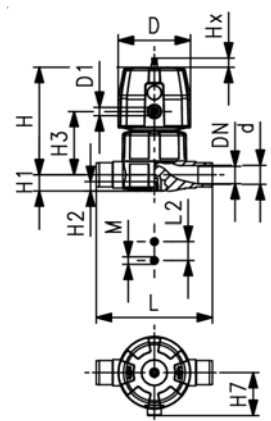
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
20	15	6	125	169 614 012
25	20	6	271	169 614 013
32	25	6	481	169 614 014
40	32	6	759	169 614 015
50	40	6	960	169 614 016
63	50	6	1181	169 614 017

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	43	M6	96	7
25	96	1/8	152	25	132	18	12	73	57	M6	114	10
32	96	1/8	166	25	143	22	12	84	57	M6	122	13
40	120	1/8	192	45	173	26	15	99	69	M8	140	14
50	120	1/8	222	45	193	32	15	119	69	M8	160	16
63	120	1/8	266	45	205	39	15	132	69	M8	190	16



Diaphragm valve DIASTAR Six ABS

FC (Fail safe to close)

With solvent cement spigots metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

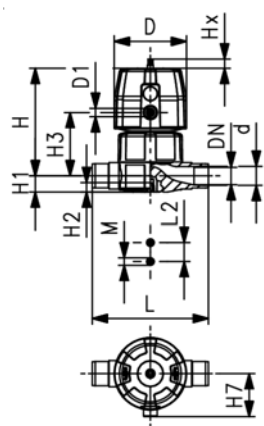
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
20	15	6	125	169 615 012
25	20	6	271	169 615 013
32	25	6	481	169 615 014
40	32	6	759	169 615 015
50	40	6	960	169 615 016
63	50	6	1181	169 615 017

table continued next page

ABS metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]	
20	68	1/8	124	25	101	14	12	60	43	M6	7	
25	96	1/8	144	25	132	18	12	73	57	M6	10	
32	96	1/8	154	25	143	22	12	84	57	M6	13	
40	120	1/8	174	45	173	26	15	99	69	M8	14	
50	120	1/8	194	45	193	32	15	119	69	M8	16	
63	120	1/8	224	45	205	39	15	132	69	M8	16	



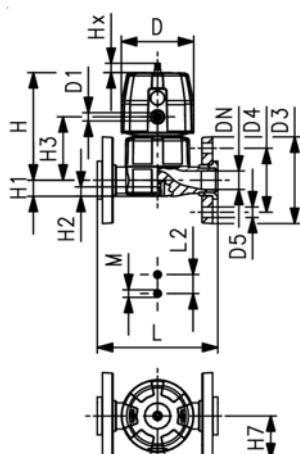
Diaphragm valve DIASTAR Six ABS FC (Fail safe to close) With backing flanges PP-V metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	
20	15	6	125	169 617 112	
25	20	6	271	169 617 113	
32	25	6	481	169 617 114	
40	32	6	759	169 617 115	
50	40	6	960	169 617 116	
63	50	6	1181	169 617 117	

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]	
20	68	1/8	95	65	14	130	25	101	14	12	60	43	M6	7	
25	96	1/8	105	75	14	150	25	132	18	12	73	57	M6	10	
32	96	1/8	115	85	14	160	25	143	22	12	84	57	M6	13	
40	120	1/8	140	100	18	180	45	173	26	15	99	69	M8	14	
50	120	1/8	150	110	18	200	45	193	32	15	119	69	M8	16	
63	120	1/8	165	125	18	230	45	205	39	15	132	69	M8	16	

ABS metric

Diaphragm valve DIASTAR Ten ABS

FC (Fail safe to close)

Unions with solvent cement sockets metric

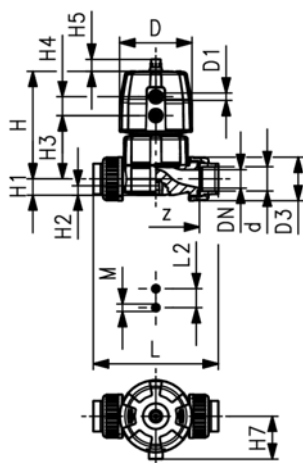


Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
20	15	10	125	169 624 012
25	20	10	271	169 624 013
32	25	10	481	169 624 014
40	32	10	759	169 624 015
50	40	10	1263	169 624 016
63	50	10	1728	169 624 017

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	96	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	114	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	122	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	140	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	160	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	190	23

Diaphragm valve DIASTAR Ten ABS

FC (Fail safe to close)

With solvent cement spigots metric

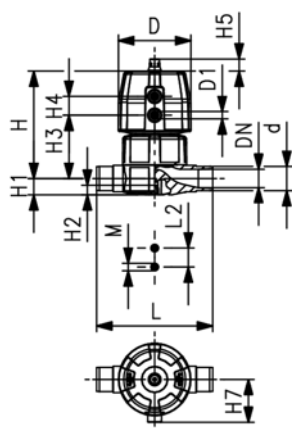


Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

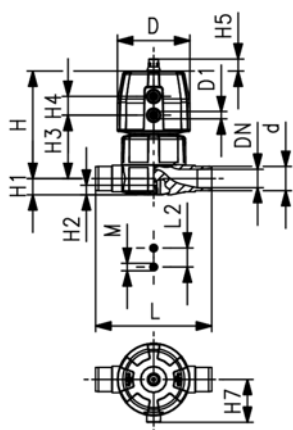


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
20	15	10	125	169 625 012
25	20	10	271	169 625 013
32	25	10	481	169 625 014
40	32	10	759	169 625 015
50	40	10	1263	169 625 016
63	50	10	1728	169 625 017

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13

table continued next page

ABS metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	



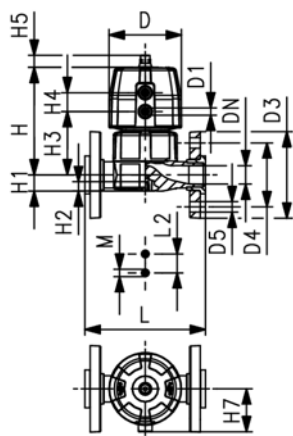
Diaphragm valve DIASTAR Ten ABS FC (Fail safe to close) With backing flanges PP-V metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	
20	15	10	125	169 627 112	
25	20	10	271	169 627 113	
32	25	10	481	169 627 114	
40	32	10	759	169 627 115	
50	40	10	1263	169 627 116	
63	50	10	1728	169 627 117	

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	43	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	57	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	69	M8
50	150	1/4	150	110	18	200	45	193	32	15	119	36	26	88	M8
63	150	1/4	165	125	18	230	45	205	39	15	132	36	26	88	M8

d [mm]	Lift = Hx [mm]	
20	7	
25	10	
32	13	
40	15	
50	19	
63	23	

ABS metric

Diaphragm valve DIASTAR Ten ABS

FO (Fail safe to open)

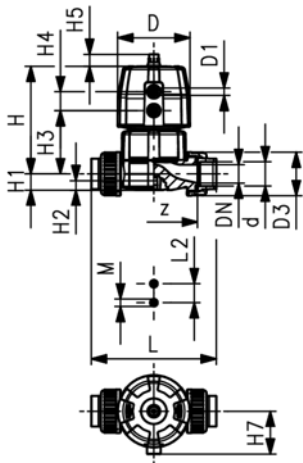
Unions with solvent cement sockets metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
20	15	10	125	169 644 012
25	20	10	271	169 644 013
32	25	10	481	169 644 014
40	32	10	759	169 644 015
50	40	10	1263	169 644 016
63	50	10	1728	169 644 017

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	96	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	114	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	122	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	140	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	160	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	190	23

Diaphragm valve DIASTAR Ten ABS

FO (Fail safe to open)

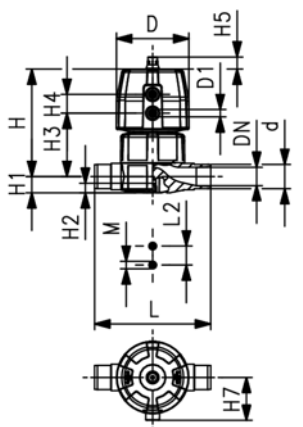
With solvent cement spigots metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

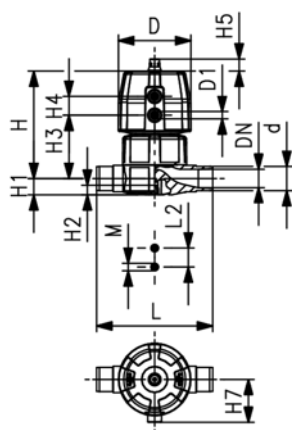


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
20	15	10	125	169 645 012
25	20	10	271	169 645 013
32	25	10	481	169 645 014
40	32	10	759	169 645 015
50	40	10	1263	169 645 016
63	50	10	1728	169 645 017

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13

table continued next page

ABS metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	



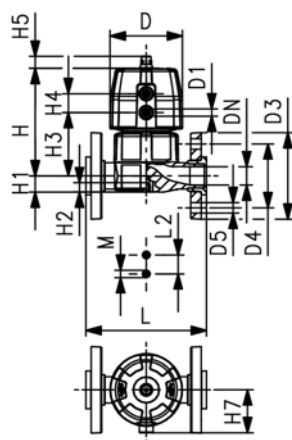
Diaphragm valve DIASTAR Ten ABS FO (Fail safe to open) With backing flanges PP-V metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	
20	15	10	125	169 647 112	
25	20	10	271	169 647 113	
32	25	10	481	169 647 114	
40	32	10	759	169 647 115	
50	40	10	1263	169 647 116	
63	50	10	1728	169 647 117	

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	43	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	57	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	69	M8
50	150	1/4	150	110	18	200	45	214	32	15	119	36	26	88	M8
63	150	1/4	165	125	18	230	45	226	39	15	132	36	26	88	M8

d [mm]	Lift = Hx [mm]	
20	7	
25	10	
32	13	
40	15	
50	19	
63	23	

ABS metric

Diaphragm valve DIASTAR Ten ABS

DA (Double acting)

Unions with solvent cement sockets metric

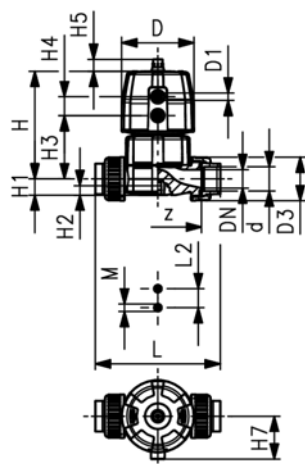


Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
20	15	10	125	169 654 012
25	20	10	271	169 654 013
32	25	10	481	169 654 014
40	32	10	759	169 654 015
50	40	10	1263	169 654 016
63	50	10	1728	169 654 017

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	96	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	114	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	122	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	140	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	160	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	190	23

Diaphragm valve DIASTAR Ten ABS

DA (Double acting)

With solvent cement spigots metric

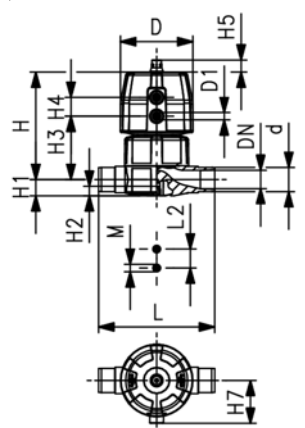


Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

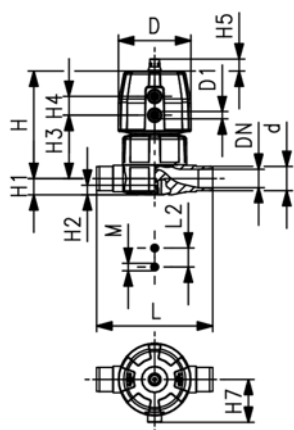


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
20	15	10	125	169 655 012
25	20	10	271	169 655 013
32	25	10	481	169 655 014
40	32	10	759	169 655 015
50	40	10	1263	169 655 016
63	50	10	1728	169 655 017

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13

table continued next page

ABS metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	



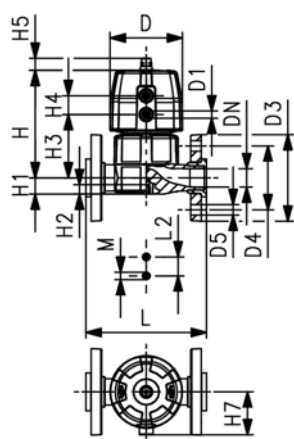
Diaphragm valve DIASTAR Ten ABS DA (Double acting) With backing flanges PP-V metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	
20	15	10	125	169 657 112	
25	20	10	271	169 657 113	
32	25	10	481	169 657 114	
40	32	10	759	169 657 115	
50	40	10	1263	169 657 116	
63	50	10	1728	169 657 117	

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	43	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	57	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	69	M8
50	150	1/4	150	110	18	200	45	214	32	15	119	36	26	88	M8
63	150	1/4	165	125	18	230	45	226	39	15	132	36	26	88	M8

d [mm]	Lift = Hx [mm]	
20	7	
25	10	
32	13	
40	15	
50	19	
63	23	

ABS metric

Diaphragm valve DIASTAR Sixteen ABS

FC (Fail safe to close)

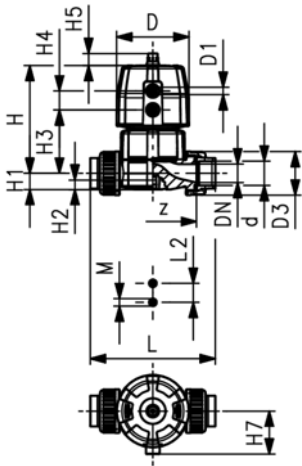
Unions with solvent cement sockets metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
20	15	10	125	169 634 012
25	20	10	271	169 634 013
32	25	10	481	169 634 014
40	32	10	759	169 634 015
50	40	10	1263	169 634 016
63	50	10	1728	169 634 017

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	96	1/8	128	25	127	14	12	68	25	16	57	M6	96	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	114	10
32	120	1/8	166	25	167	22	12	93	26	26	69	M6	122	13
40	150	1/4	192	45	196	26	15	101	36	26	88	M8	140	15
50	180	1/4	222	45	239	32	15	124	37	26	103	M8	160	19
63	180	1/4	266	45	251	39	15	137	37	26	103	M8	190	23

Diaphragm valve DIASTAR Sixteen ABS

FC (Fail safe to close)

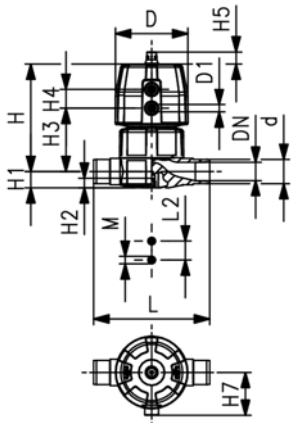
With solvent cement spigots metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

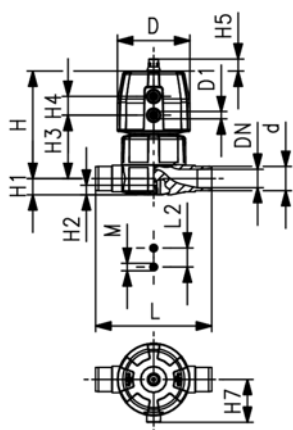


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
20	15	10	125	169 635 012
25	20	10	271	169 635 013
32	25	10	481	169 635 014
40	32	10	759	169 635 015
50	40	10	1263	169 635 016
63	50	10	1728	169 635 017

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	96	1/8	124	25	127	14	12	68	25	16	57	M6	7
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10
32	120	1/8	154	25	167	22	12	93	26	26	69	M6	13

table continued next page

ABS metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	
40	150	¼	174	45	196	26	15	101	36	26	88	M8	15	
50	180	¼	194	45	239	32	15	124	37	26	103	M8	19	
63	180	¼	224	45	251	39	15	137	37	26	103	M8	23	



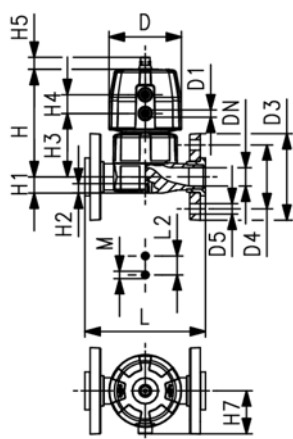
Diaphragm valve DIASTAR Sixteen ABS FC (Fail safe to close) With backing flanges PP-V metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	
20	15	10	125	169 637 112	
25	20	10	271	169 637 113	
32	25	10	481	169 637 114	
40	32	10	759	169 637 115	
50	40	10	1263	169 637 116	
63	50	10	1728	169 637 117	

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	96	⅜	95	65	14	130	25	127	14	12	68	25	16	57	M6
25	96	⅜	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	120	⅜	115	85	14	160	25	167	22	12	93	26	26	69	M6
40	150	¼	140	100	18	180	45	196	26	15	101	36	26	88	M8
50	180	¼	150	110	18	200	45	239	32	15	124	37	26	103	M8
63	180	¼	165	125	18	230	45	251	39	15	137	37	26	103	M8

d [mm]	Lift = Hx [mm]	
20	7	
25	10	
32	13	
40	15	
50	19	
63	23	

ABS metric

Diaphragm valves pneumatic

Diaphragm valve type DIASTAR ABS

Series 025 FC (Fail safe to close)

With fixed flanges ABS metric

Model:

• Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

• With position indicator / Working pressure: **one side**

* with backing flanges PP-V metric

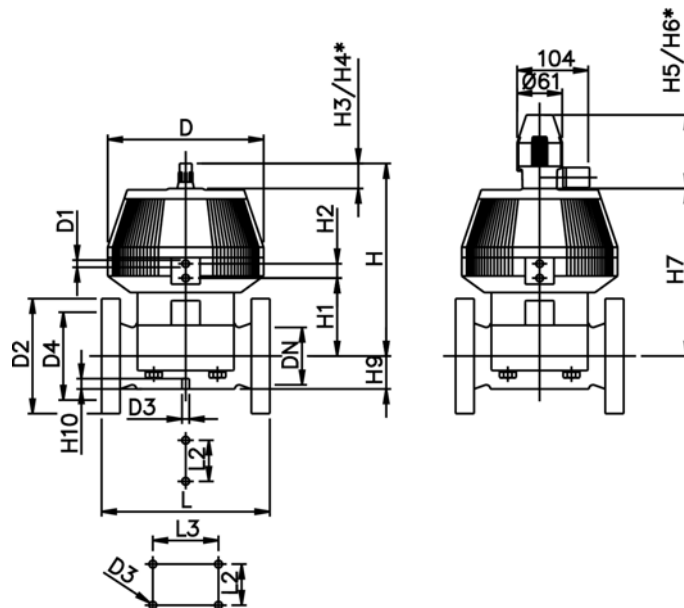
** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5



d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
* 75	65	2 ½	10	992	199 025 947
** 90	80	3	10	1700	199 025 948
110	100	4	6	2700	199 025 949

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]
* 75	280	¼	185	8	145	290	70	344	148	24	46	100	129	195
** 90	280	¼	200	12	160	310	120	348	150	24	46	100	129	195
110	335	¼	225	12	180	350	120	395	176	24	46	100	129	195

d [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	298	46	15
** 90	302	57	15
110	349	69	20



ABS metric

Diaphragm valve type DIASTAR ABS Series 025 FO (Fail safe to open) With fixed flanges ABS metric



Model:

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

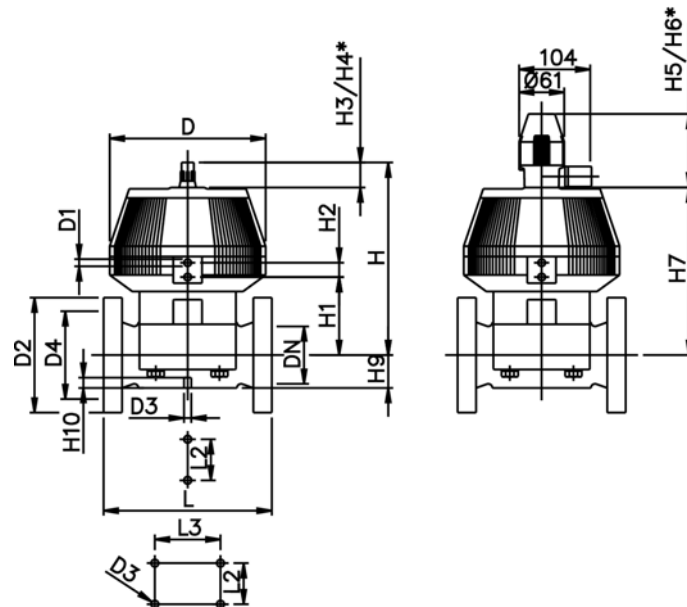
* with backing flanges PP-V metric

** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
* 75	65	2 ½	10	992	199 025 957
** 90	80	3	10	1700	199 025 958
110	100	4	6	2700	199 025 959

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]
* 75	280	¼	185	8	145	290	70	344	148	24	46	100	129	195
** 90	280	¼	200	12	160	310	120	348	150	24	46	100	129	195
110	335	¼	225	12	180	350	120	395	176	24	46	100	129	195

d [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	298	46	15
** 90	302	57	15
110	349	69	20



ABS metric

Diaphragm valve type DIASTAR ABS Series 025 DA (Double acting) With fixed flanges ABS metric



Model:

- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

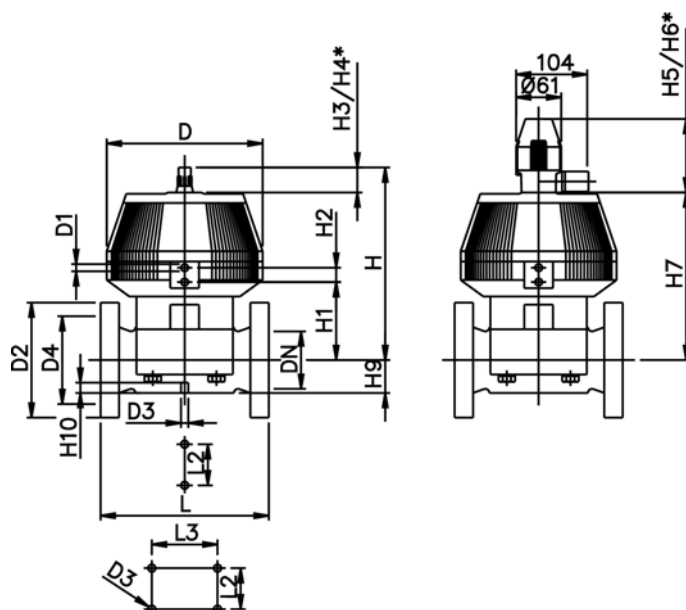
* with backing flanges PP-V metric

** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
* 75	65	2 ½	10	992	199 025 967
** 90	80	3	10	1700	199 025 968
110	100	4	6	2700	199 025 969

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]
* 75	280	¼	185	8	145	290	70	344	148	24	46	100	129	195
** 90	280	¼	200	12	160	310	120	348	150	24	46	100	129	195
110	335	¼	225	12	180	350	120	395	176	24	46	100	129	195

d [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	298	46	15
** 90	302	57	15
110	349	69	20



PROGEF Standard metric

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PROGEF Standard metric

Ball valves electric

PROGEF Standard

Ball valve type 107 100-230V

With manual emergency override

With fusion sockets metric



DN10/15 - 50

Model:

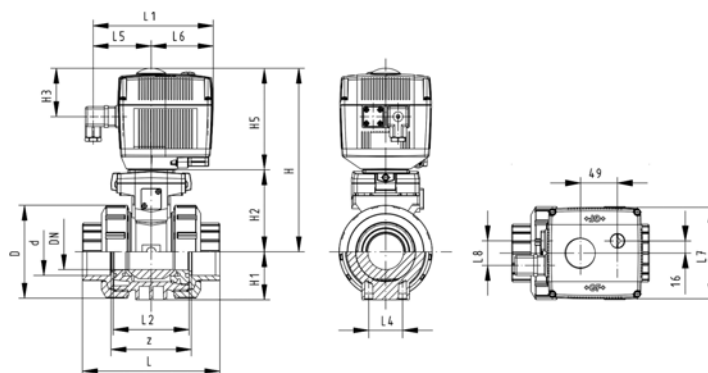
- Material: PP-H
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 107 502	199 107 512
20	15	10	185	199 107 503	199 107 513
25	20	10	350	199 107 504	199 107 514
32	25	10	700	199 107 505	199 107 515
40	32	10	1000	199 107 506	199 107 516
50	40	10	1600	199 107 507	199 107 517
63	50	10	3100	199 107 508	199 107 518

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	200	27	64	64	137	93	161	56	25	77	83	122	33	67
20	50	200	27	64	64	137	95	161	56	25	77	83	122	33	66
25	58	209	30	73	64	137	108	161	65	25	77	83	122	33	77
32	68	209	36	73	64	137	118	161	71	25	77	83	122	33	83
40	84	220	44	84	64	137	137	161	85	45	77	83	122	33	99
50	97	220	51	84	64	137	147	161	89	45	77	83	122	33	105
63	124	243	64	106	64	137	168	161	101	45	77	83	122	33	117



PROGEF Standard metric

PROGEF Standard

Ball valve type 107 100-230V

With manual emergency override

With socket fusion spigots metric



DN10/15 - 50

Model:

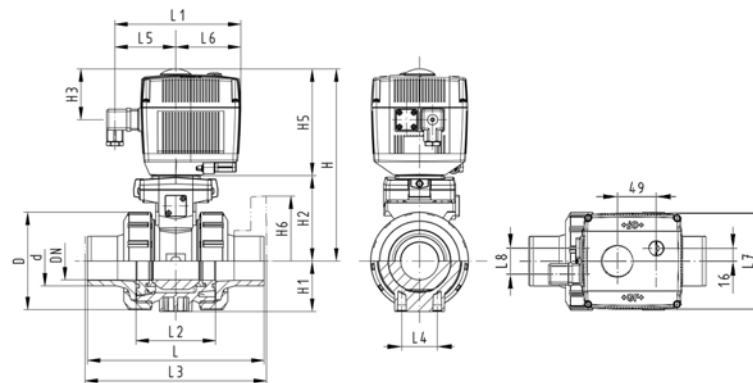
- Material: PP-H
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 107 522	199 107 532
20	15	10	185	199 107 523	199 107 533
25	20	10	350	199 107 524	199 107 534
32	25	10	700	199 107 525	199 107 535
40	32	10	1000	199 107 526	199 107 536
50	40	10	1600	199 107 527	199 107 537
63	50	10	3100	199 107 528	199 107 538

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	200	27	64	64	137	110	161	56	130	25	77	83	122	33
20	50	200	27	64	64	137	120	161	56	130	25	77	83	122	33
25	58	209	30	73	64	137	139	161	65	150	25	77	83	122	33
32	68	209	36	73	64	137	150	161	71	160	25	77	83	122	33
40	84	220	44	84	64	137	170	161	85	180	45	77	83	122	33
50	97	220	51	84	64	137	190	161	89	200	45	77	83	122	33
63	124	243	64	106	64	137	220	161	101	230	45	77	83	122	33



PROGEF Standard metric

PROGEF Standard

Ball valve type 107 100-230V

With manual emergency override

With butt fusion spigots IR-Plus SDR11 metric



DN10/15 - 50

Model:

- Material: PP-H
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

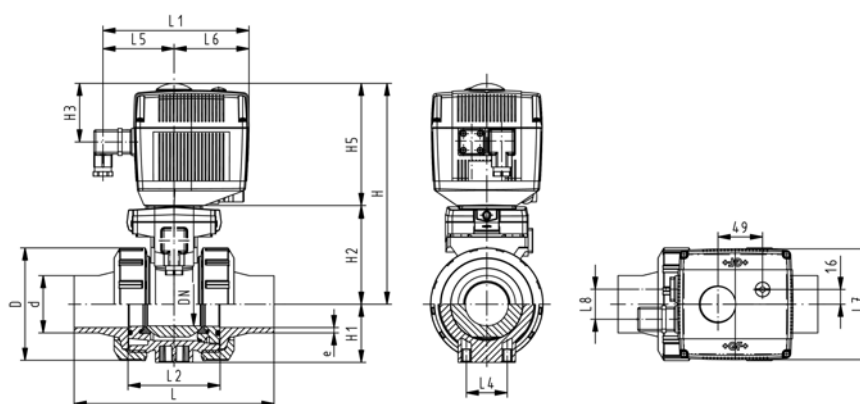
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	185	800 046 107	800 046 110
25	20	10	350	800 046 108	800 046 112
32	25	10	700	800 027 956	800 046 113
40	32	10	1000	800 046 109	800 046 114
50	40	10	1600	800 021 699	800 046 115
63	50	10	3100	800 027 113	800 046 116

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
20	50	200	27	64	64	137	130	161	56	130	25	77	83	122	33
25	58	209	30	73	64	137	143	161	65	150	25	77	83	122	33
32	68	209	36	73	64	137	150	161	71	160	25	77	83	122	33
40	84	220	44	84	64	137	171	161	85	180	45	77	83	122	33
50	97	220	51	84	64	137	191	161	89	200	45	77	83	122	33
63	124	243	64	106	64	137	220	161	101	230	45	77	83	122	33

d [mm]	e [mm]
20	1.9
25	2.3
32	3.0
40	3.7
50	4.6
63	5.8



PROGEF Standard metric

PROGEF Standard

Ball valve type 107 100-230V

With manual emergency override

With fixed flanges PP-H serrated metric



DN10/15 - 50

Model:

- Material: PP-H
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

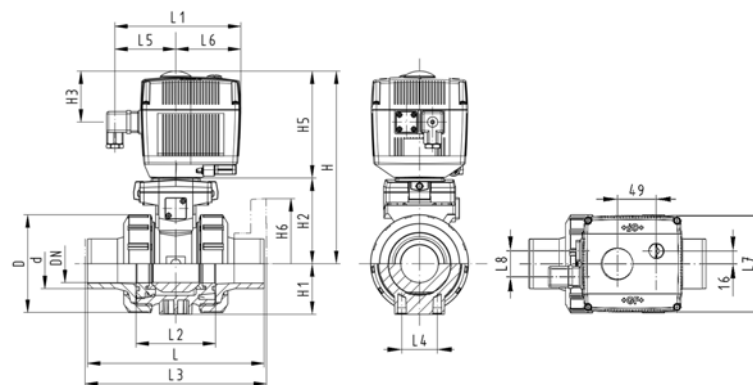
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
20	15	½	10	185	199 107 583	199 107 593
25	20	¾	10	350	199 107 584	199 107 594
32	25	1	10	700	199 107 585	199 107 595
40	32	1 ¼	10	1000	199 107 586	199 107 596
50	40	1 ½	10	1600	199 107 587	199 107 597
63	50	2	10	3100	199 107 588	199 107 598

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	200	27	64	64	137	48	120	161	56	130	25	77	83	122
25	58	209	30	73	64	137	53	140	161	65	150	25	77	83	122
32	68	209	36	73	64	137	58	150	161	71	160	25	77	83	122
40	84	220	44	84	64	137	70	170	161	85	180	45	77	83	122
50	97	220	51	84	64	137	75	190	161	89	200	45	77	83	122
63	124	243	64	106	64	137	165	220	161	101	230	45	77	83	122

d [mm]	L8 [mm]
20	33
25	33
32	33
40	33
50	33
63	33



PROGEF Standard metric

PROGEF Standard

Ball valve type 107 24V

With manual emergency override

With fusion sockets metric



DN10/15 - 50

Model:

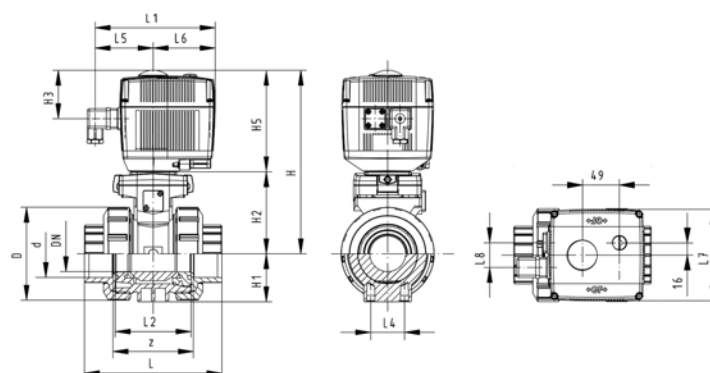
- Material: PP-H
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 107 542	199 107 552
20	15	10	185	199 107 543	199 107 553
25	20	10	350	199 107 544	199 107 554
32	25	10	700	199 107 545	199 107 555
40	32	10	1000	199 107 546	199 107 556
50	40	10	1600	199 107 547	199 107 557
63	50	10	3100	199 107 548	199 107 558

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	200	27	64	64	137	93	161	56	25	77	83	122	33	67
20	50	200	27	64	64	137	95	161	56	25	77	83	122	33	66
25	58	209	30	73	64	137	108	161	65	25	77	83	122	33	77
32	68	209	36	73	64	137	118	161	71	25	77	83	122	33	83
40	84	220	44	84	64	137	137	161	85	45	77	83	122	33	99
50	97	220	51	84	64	137	147	161	89	45	77	83	122	33	105
63	124	243	64	106	64	137	168	161	101	45	77	83	122	33	117



PROGEF Standard metric

PROGEF Standard

Ball valve type 107 24V

With manual emergency override

With socket fusion spigots metric



DN10/15 - 50

Model:

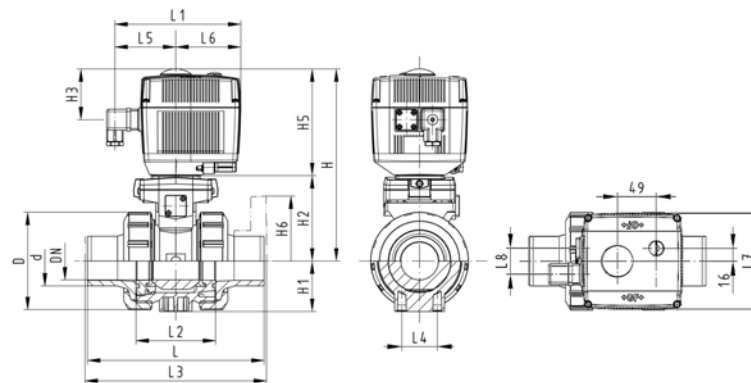
- Material: PP-H
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 107 562	199 107 572
20	15	10	185	199 107 563	199 107 573
25	20	10	350	199 107 564	199 107 574
32	25	10	700	199 107 565	199 107 575
40	32	10	1000	199 107 566	199 107 576
50	40	10	1600	199 107 567	199 107 577
63	50	10	3100	199 107 568	199 107 578

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	200	27	64	64	137	110	161	56	130	25	77	83	122	33
20	50	200	27	64	64	137	120	161	56	130	25	77	83	122	33
25	58	209	30	73	64	137	139	161	65	150	25	77	83	122	33
32	68	209	36	73	64	137	156	161	71	160	25	77	83	122	33
40	84	220	44	84	64	137	170	161	85	180	45	77	83	122	33
50	97	220	51	84	64	137	190	161	89	200	45	77	83	122	33
63	124	243	64	106	64	137	220	161	101	230	45	77	83	122	33



PROGEF Standard metric

PROGEF Standard

Ball valve type 107 24V

With manual emergency override

With butt fusion spigots IR-Plus SDR11 metric



DN10/15 - 50

Model:

- Material: PP-H
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

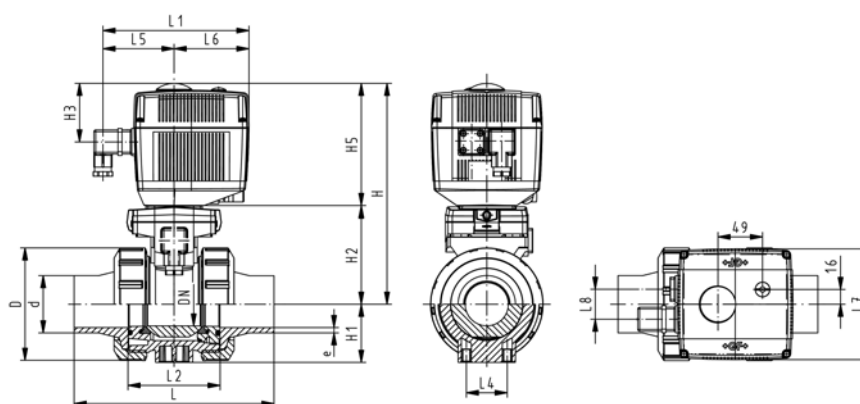
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
20	15	10	185	800 015 073	800 046 119
25	20	10	350	800 046 117	800 046 120
32	25	10	700	800 046 118	800 046 121
40	32	10	1000	800 021 702	800 046 122
50	40	10	1600	800 021 700	800 046 123
63	50	10	3100	800 021 701	800 046 124

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
20	50	200	27	64	64	137	130	161	56	130	25	77	83	122	33
25	58	209	30	73	64	137	143	161	65	150	25	77	83	122	33
32	68	209	36	73	64	137	150	161	71	160	25	77	83	122	33
40	84	220	44	84	64	137	171	161	85	180	45	77	83	122	33
50	97	220	51	84	64	137	191	161	89	200	45	77	83	122	33
63	124	243	64	106	64	137	220	161	101	230	45	77	83	122	33

d [mm]	e [mm]
20	1.9
25	2.3
32	3.0
40	3.7
50	4.6
63	5.8



PROGEF Standard metric

PROGEF Standard

Ball valve type 107 24V

With manual emergency override

With fixed flanges PP-H serrated metric



DN10/15 - 50

Model:

- Material: PP-H
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

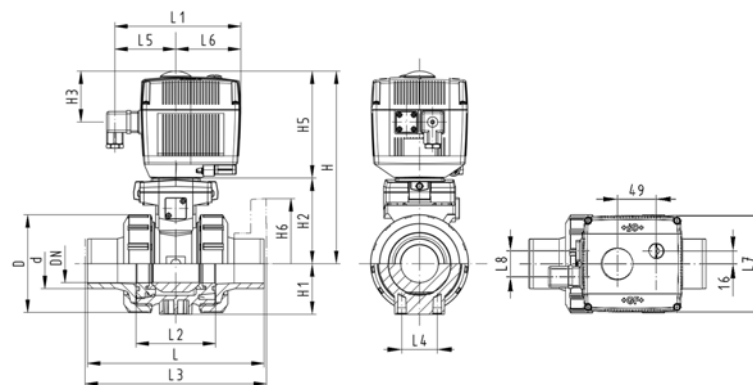
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
20	15	½	10	185	199 107 783	199 107 793
25	20	¾	10	350	199 107 784	199 107 794
32	25	1	10	700	199 107 785	199 107 795
40	32	1 ¼	10	1000	199 107 786	199 107 796
50	40	1 ½	10	1600	199 107 787	199 107 797
63	50	2	10	3100	199 107 788	199 107 798

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	200	27	64	64	137	48	120	161	56	130	25	77	83	122
25	58	209	30	73	64	137	53	140	161	65	150	25	77	83	122
32	68	209	36	73	64	137	58	150	161	71	160	25	77	83	122
40	84	220	44	84	64	137	70	170	161	85	180	45	77	83	122
50	97	220	51	84	64	137	75	190	161	89	200	45	77	83	122
63	124	243	64	106	64	137	165	220	161	101	230	45	77	83	122

d [mm]	L8 [mm]
20	33
25	33
32	33
40	33
50	33
63	33



PROGEF Standard metric

PROGEF Standard

Ball valve type 131 100-230V

With manual emergency override

With fusion sockets metric

Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

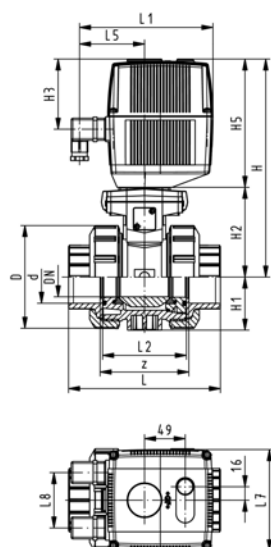


DN10/15 - 50

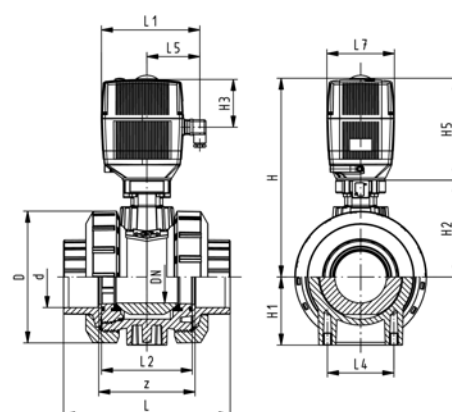


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 131 002	199 131 012
20	15	10	185	199 131 003	199 131 013
25	20	10	350	199 131 004	199 131 014
32	25	10	700	199 131 005	199 131 015
40	32	10	1000	199 131 006	199 131 016
50	40	10	1600	199 131 007	199 131 017
63	50	10	3100	199 131 008	199 131 018
75	65	10	5000	199 131 009	199 131 019
90	80	10	7000	199 131 010	199 131 020
110	100	10	11000	199 131 011	199 131 021

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
16	50	231	27	64	94	167	93	180	56	25	97	122	67
20	50	231	27	64	94	167	95	180	56	25	97	122	66
25	58	240	30	73	94	167	108	180	65	25	97	122	77
32	68	240	36	73	94	167	118	180	71	25	97	122	83
40	84	251	44	84	94	167	137	180	85	45	97	122	99
50	97	251	51	84	94	167	147	180	89	45	97	122	105
63	124	273	64	106	94	167	168	180	101	45	97	122	117
75	166	346	85	156	94	190	233	180	136	70	98	122	167
90	200	358	105	168	94	190	254	180	141	70	98	122	180
110	238	365	123	175	94	190	301	180	164	120	98	122	215



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard Ball valve type 131 100-230V With manual emergency override With socket fusion spigots metric



DN10/15 - 50



Model:

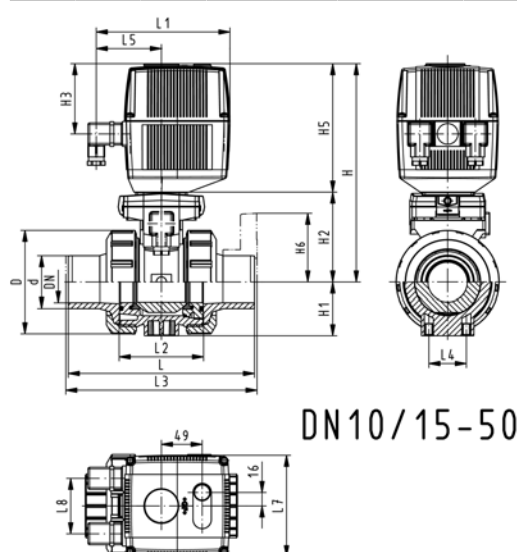
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

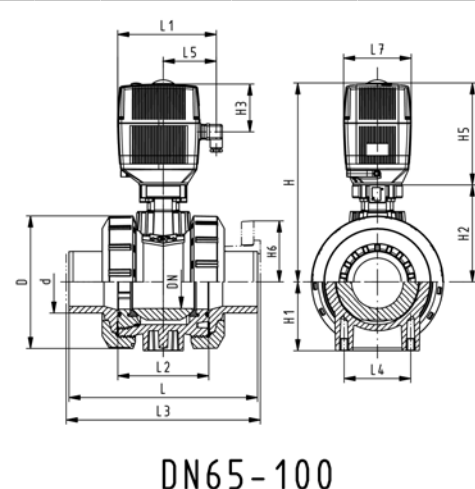
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 131 022	199 131 032
20	15	10	185	199 131 023	199 131 033
25	20	10	350	199 131 024	199 131 034
32	25	10	700	199 131 025	199 131 035
40	32	10	1000	199 131 026	199 131 036
50	40	10	1600	199 131 027	199 131 037
63	50	10	3100	199 131 028	199 131 038
75	65	10	5000	199 131 029	199 131 039
90	80	10	7000	199 131 030	199 131 040
110	100	10	11000	199 131 031	199 131 041

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]
16	50	231	27	64	94	167	110	180	56	130	25	97	122
20	50	231	27	64	94	167	120	180	56	130	25	97	122
25	58	240	30	73	94	167	139	180	65	150	25	97	122
32	68	240	36	73	94	167	150	180	71	160	25	97	122
40	84	251	44	84	94	167	170	180	85	180	45	97	122
50	97	251	51	84	94	167	190	180	89	200	45	97	122
63	124	273	64	106	94	167	220	180	101	230	45	97	122
75	166	346	85	156	94	190	280	180	136	290	70	98	122
90	200	358	105	168	94	190	296	180	141	310	70	98	122
110	238	365	123	175	94	190	336	180	164	350	120	98	122



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

Ball valve type 131 100-230V

With manual emergency override

With fixed flanges PP-H serrated metric



DN10/15 - 50

Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Built on with electric actuator EA21
- Control time 5 s/90°<
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

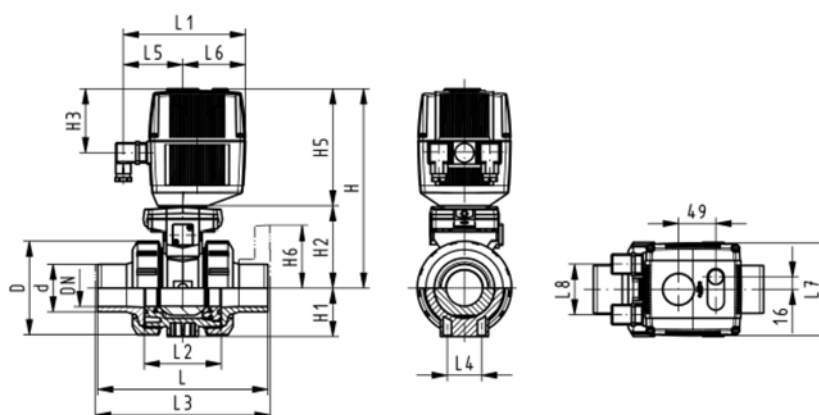
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	½	10	185	199 131 083	199 131 093
25	20	¾	10	350	199 131 084	199 131 094
32	25	1	10	700	199 131 085	199 131 095
40	32	1 ¼	10	1000	199 131 086	199 131 096
50	40	1 ½	10	1600	199 131 087	199 131 097
63	50	2	10	3100	199 131 088	199 131 098

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	27	64	94	167	48	120	180	56	130	25	97	83	122
25	58	240	30	73	94	167	53	140	180	65	150	25	97	83	122
32	68	240	36	73	94	167	58	150	180	71	160	25	97	83	122
40	84	251	44	84	94	167	70	170	180	85	180	45	97	83	122
50	97	251	51	84	94	167	75	190	180	89	200	45	97	83	122
63	124	273	64	106	94	167	165	220	180	101	230	45	97	83	122

d [mm]	L8 [mm]
20	66
25	66
32	66
40	66
50	66
63	66



PROGEF Standard metric

PROGEF Standard

Ball valve type 131 100-230V

With manual emergency override

With backing flanges PP-st metric



Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

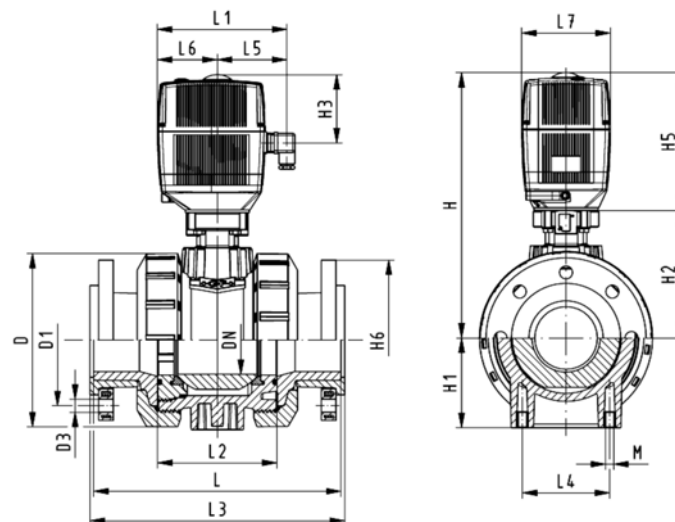
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
75	65	2 ½	10	5000	199 131 129	199 131 139
90	80	3	10	7000	199 131 130	199 131 140
110	100	4	10	11000	199 131 131	199 131 141

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
75	166	346	85	156	94	190	93	280	180	136	290	70	98	83	122
90	200	358	105	168	94	190	100	296	180	141	310	70	98	83	122
110	238	365	123	175	94	190	110	336	180	164	350	120	98	83	122

d [mm]	L8 [mm]
75	66
90	66
110	66



PROGEF Standard metric

PROGEF Standard

Ball valve type 131 100-230V

With manual emergency override

With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

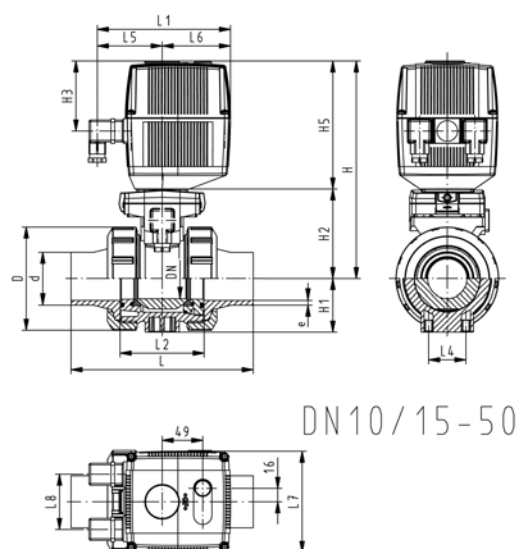


DN10/15 - 50

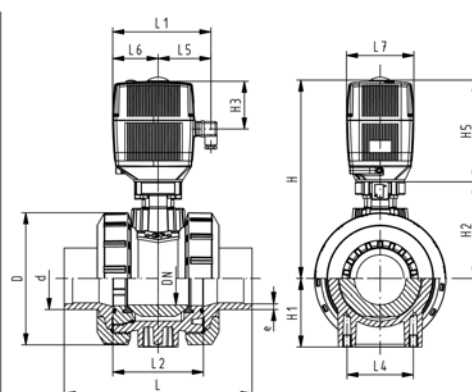


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	185	199 131 323	199 131 333
25	20	10	350	199 131 324	199 131 334
32	25	10	700	199 131 325	199 131 335
40	32	10	1000	199 131 326	199 131 336
50	40	10	1600	199 131 327	199 131 337
63	50	10	3100	199 131 328	199 131 338
75	65	10	5000	199 131 329	199 131 339
90	80	10	7000	199 131 330	199 131 340
110	100	10	11000	199 131 331	199 131 341

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	e [mm]
20	50	231	27	64	94	167	130	180	56	130	25	97	122	1.9
25	58	240	30	73	94	167	143	180	65	150	25	97	122	2.3
32	68	240	36	73	94	167	150	180	71	160	25	97	122	3.0
40	84	251	44	84	94	167	171	180	85	180	45	97	122	3.7
50	97	251	51	84	94	167	191	180	89	200	45	97	122	4.6
63	124	273	64	106	94	167	220	180	101	230	45	97	122	5.8
75	166	346	85	156	94	190	266	180	136	290	70	98	122	8.2
90	200	358	105	168	94	190	264	180	141	310	70	98	122	9.9
110	238	365	123	175	94	190	301	180	164	350	120	98	122	12.0



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

Ball valve type 131 100-230V

With manual emergency override

With butt fusion spigots SDR17.6 metric

Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

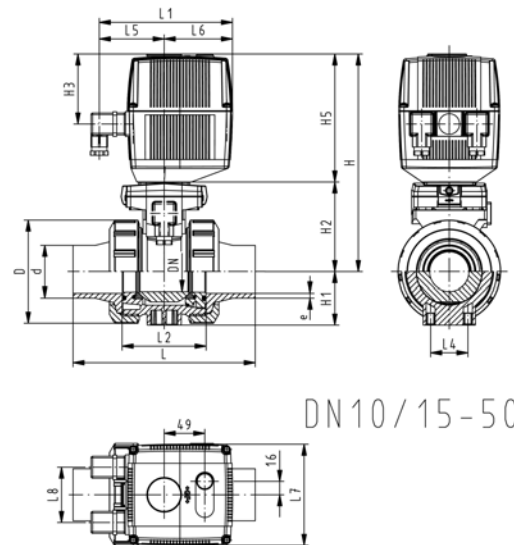


DN10/15 - 50

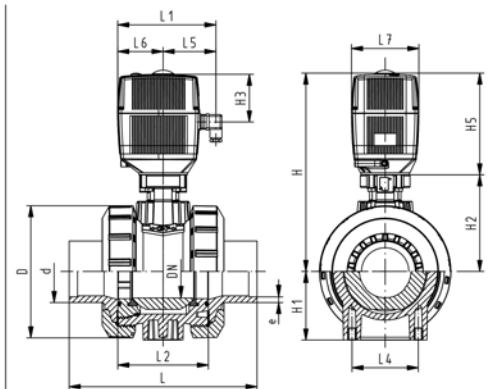


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
75	65	10	5000	199 131 729	199 131 739
90	80	10	7000	199 131 730	199 131 740
110	100	10	11000	199 131 731	199 131 741

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	e [mm]
75	166	346	85	156	94	190	266	180	136	290	70	98	122	4.6
90	200	358	105	168	94	190	264	180	141	310	70	98	122	5.5
110	238	365	123	175	94	190	301	180	164	350	120	98	122	6.7



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

Ball valve type 131 24V

With manual emergency override

With fusion sockets metric

Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

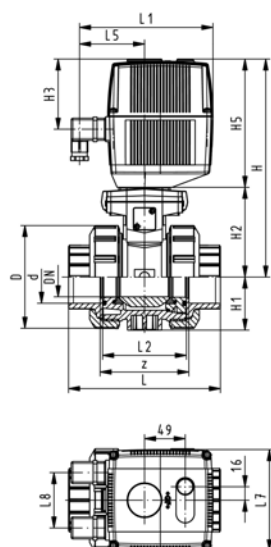


DN10/15 - 50

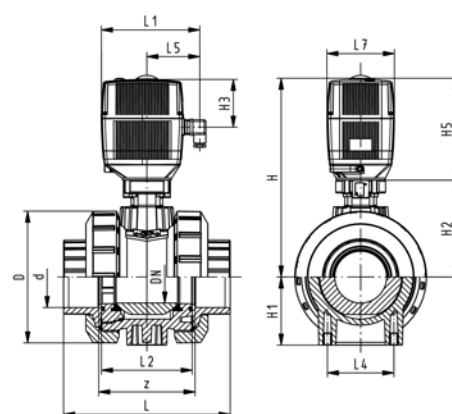


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 131 042	199 131 052
20	15	10	185	199 131 043	199 131 053
25	20	10	350	199 131 044	199 131 054
32	25	10	700	199 131 045	199 131 055
40	32	10	1000	199 131 046	199 131 056
50	40	10	1600	199 131 047	199 131 057
63	50	10	3100	199 131 048	199 131 058
75	65	10	5000	199 131 049	199 131 059
90	80	10	7000	199 131 050	199 131 060
110	100	10	11000	199 131 051	199 131 061

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
16	50	231	27	64	94	167	93	180	56	25	97	122	67
20	50	231	27	64	94	167	95	180	56	25	97	122	66
25	58	240	30	73	94	167	108	180	65	25	97	122	77
32	68	240	36	73	94	167	118	180	71	25	97	122	83
40	84	251	44	84	94	167	137	180	85	45	97	122	99
50	97	251	51	84	94	167	147	180	89	45	97	122	105
63	124	273	64	106	94	167	168	180	101	45	97	122	117
75	166	346	85	156	94	190	233	180	136	70	98	122	167
90	200	358	105	168	94	190	254	180	141	70	98	122	180
110	238	365	123	175	94	190	301	180	164	120	98	122	215



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

Ball valve type 131 24V

With manual emergency override

With socket fusion spigots metric

Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

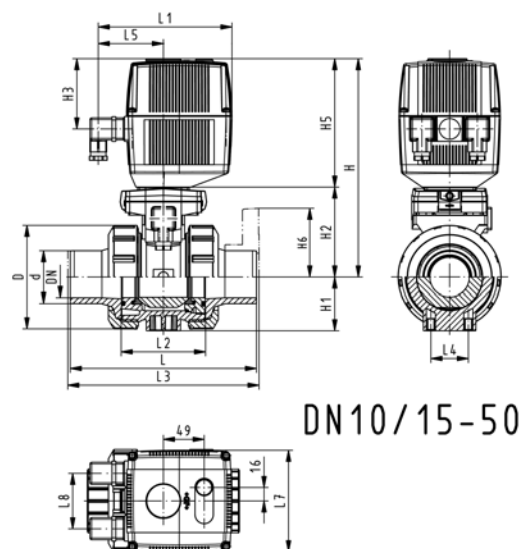


DN10/15 - 50

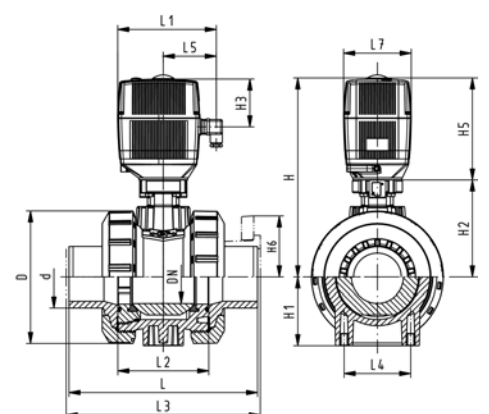


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 131 062	199 131 072
20	15	10	185	199 131 063	199 131 073
25	20	10	350	199 131 064	199 131 074
32	25	10	700	199 131 065	199 131 075
40	32	10	1000	199 131 066	199 131 076
50	40	10	1600	199 131 067	199 131 077
63	50	10	3100	199 131 068	199 131 078
75	65	10	5000	199 131 069	199 131 079
90	80	10	7000	199 131 070	199 131 080
110	100	10	11000	199 131 071	199 131 081

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]
16	50	231	27	64	94	167	110	180	56	130	25	97	122
20	50	231	27	64	94	167	120	180	56	130	25	97	122
25	58	240	30	73	94	167	139	180	65	150	25	97	122
32	68	240	36	73	94	167	150	180	71	160	25	97	122
40	84	251	44	84	94	167	170	180	85	180	45	97	122
50	97	251	51	84	94	167	190	180	89	200	45	97	122
63	124	273	64	106	94	167	220	180	101	230	45	97	122
75	166	346	85	156	94	190	280	180	136	290	70	98	122
90	200	358	105	168	94	190	296	180	141	310	70	98	122
110	238	365	123	175	94	190	336	180	164	350	120	98	122



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

Ball valve type 131 24V

With manual emergency override

With fixed flanges PP-H serrated metric



DN10/15 - 50

Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Built on with electric actuator EA21
- Control time 5 s/90°<
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

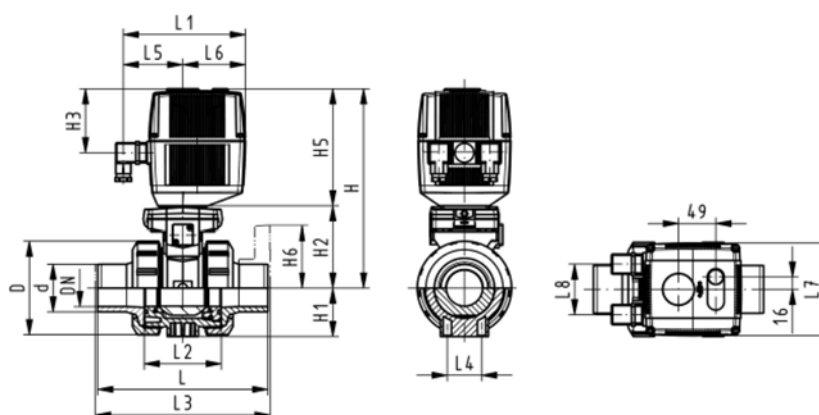
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
20	15	½	10	185	199 131 103	199 131 113	
25	20	¾	10	350	199 131 104	199 131 114	
32	25	1	10	700	199 131 105	199 131 115	
40	32	1 ¼	10	1000	199 131 106	199 131 116	
50	40	1 ½	10	1600	199 131 107	199 131 117	
63	50	2	10	3100	199 131 108	199 131 118	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	27	64	94	167	48	120	180	56	130	25	97	83	122
25	58	240	30	73	94	167	53	140	180	65	150	25	97	83	122
32	68	240	36	73	94	167	58	150	180	71	160	25	97	83	122
40	84	251	44	84	94	167	70	170	180	85	180	45	97	83	122
50	97	251	51	84	94	167	75	190	180	89	200	45	97	83	122
63	124	273	64	106	94	167	165	220	180	101	230	45	97	83	122

d [mm]	L8 [mm]	
20	66	
25	66	
32	66	
40	66	
50	66	
63	66	



PROGEF Standard metric

PROGEF Standard

Ball valve type 131 24V

With manual emergency override

With backing flanges PP-st metric



Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

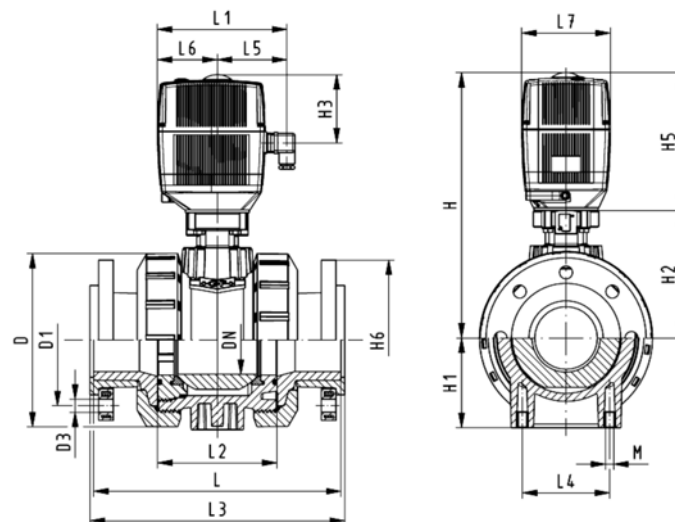
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
75	65	2 ½	10	5000	199 131 149	199 131 159
90	80	3	10	7000	199 131 150	199 131 160
110	100	4	10	11000	199 131 151	199 131 161

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
75	166	346	85	156	94	190	93	280	180	136	290	70	98	83	122
90	200	358	105	168	94	190	100	296	180	141	310	70	98	83	122
110	238	365	123	175	94	190	110	336	180	164	350	120	98	83	122

d [mm]	L8 [mm]
75	66
90	66
110	66



PROGEF Standard metric

PROGEF Standard

Ball valve type 131 24V

With manual emergency override

With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

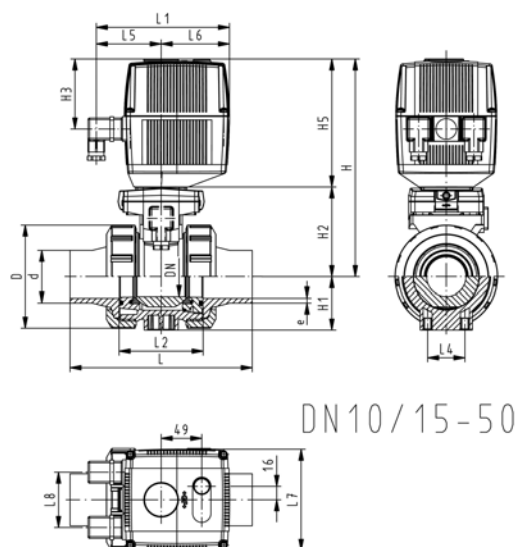


DN10/15 - 50

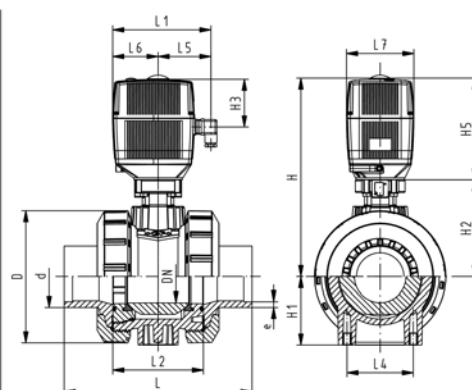


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	185	199 131 363	199 131 373
25	20	10	350	199 131 364	199 131 374
32	25	10	700	199 131 365	199 131 375
40	32	10	1000	199 131 366	199 131 376
50	40	10	1600	199 131 367	199 131 377
63	50	10	3100	199 131 368	199 131 378
75	65	10	5000	199 131 369	199 131 379
90	80	10	7000	199 131 370	199 131 380
110	100	10	11000	199 131 371	199 131 381

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	e [mm]
20	50	231	27	64	94	167	130	180	56	130	25	97	122	1.9
25	58	240	30	73	94	167	143	180	65	150	25	97	122	2.3
32	68	240	36	73	94	167	150	180	71	160	25	97	122	3.0
40	84	251	44	84	94	167	171	180	85	180	45	97	122	3.7
50	97	251	51	84	94	167	191	180	89	200	45	97	122	4.6
63	124	273	64	106	94	167	220	180	101	230	45	97	122	5.8
75	166	346	85	156	94	190	266	180	136	290	70	98	122	8.2
90	200	358	105	168	94	190	264	180	141	310	70	98	122	9.9
110	238	365	123	175	94	190	301	180	164	350	120	98	122	12.0



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

Ball valve type 131 24V

With manual emergency override

With butt fusion spigots SDR17.6 metric

Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Voltage 24 V AC/DC
- Control range 90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

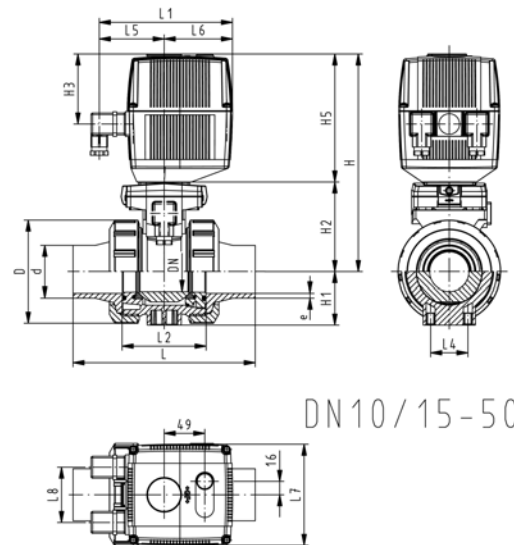


DN10/15 - 50

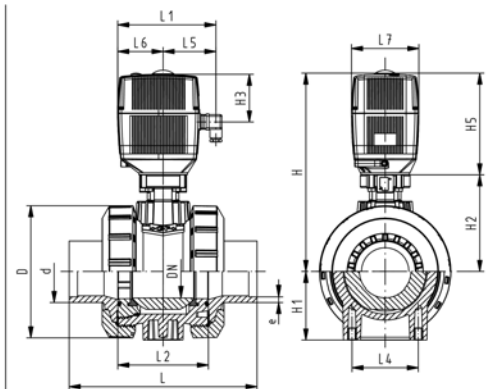


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
75	65	10	5000	199 131 769	199 131 779
90	80	10	7000	199 131 770	199 131 780
110	100	10	11000	199 131 771	199 131 781

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	e [mm]
75	166	346	85	156	94	190	266	180	136	290	70	98	122	4.6
90	200	358	105	168	94	190	264	180	141	310	70	98	122	5.5
110	238	365	123	175	94	190	301	180	164	350	120	98	122	6.7



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

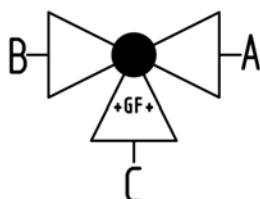
Horizontal/L-port 100-230V

With manual emergency override

With fusion sockets metric

Model:

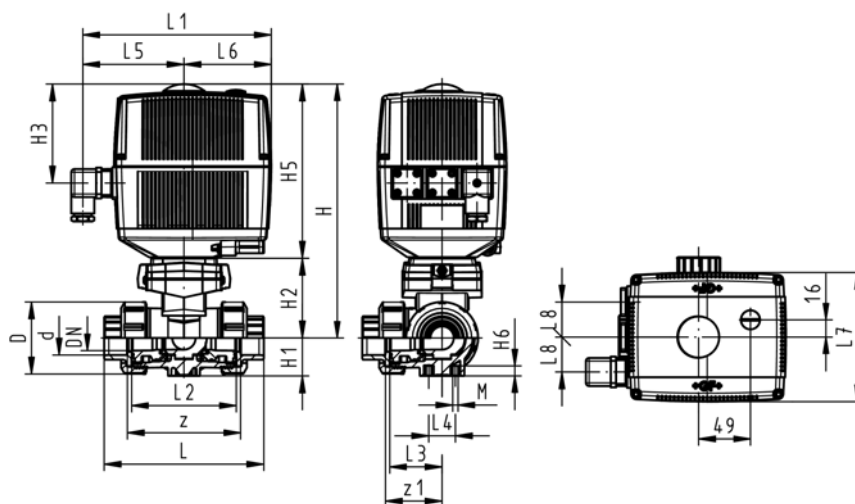
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 186 022	199 186 032
20	15	10	75	199 186 023	199 186 033
25	20	10	150	199 186 024	199 186 034
32	25	10	280	199 186 025	199 186 035
40	32	10	480	199 186 026	199 186 036
50	40	10	620	199 186 027	199 186 037
63	50	10	1230	199 186 028	199 186 038

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	110	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	82	41
20	33	6	82	41
25	33	6	97	49
32	33	6	110	55
40	33	8	132	66
50	33	8	151	76
63	33	8	188	94



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

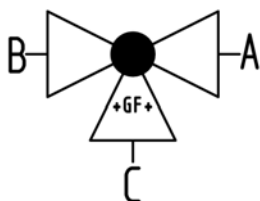
Horizontal/L-port 100-230V

With manual emergency override

With threaded sockets reinforced Rp

Model:

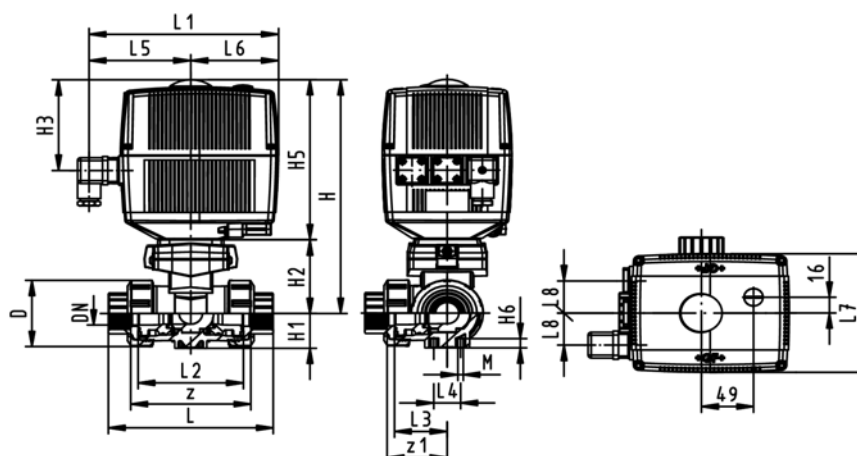
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	50	199 186 122	199 186 132
1/2	15	10	75	199 186 123	199 186 133
3/4	20	10	150	199 186 124	199 186 134
1	25	10	280	199 186 125	199 186 135
1 1/4	32	10	480	199 186 126	199 186 136
1 1/2	40	10	620	199 186 127	199 186 137
2	50	10	1230	199 186 128	199 186 138

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
3/8	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
1/2	50	231	28	64	94	167	8	114	180	72	36	25	97	83	122
3/4	58	240	32	73	94	167	8	131	180	85	43	25	97	83	122
1	68	240	36	73	94	167	8	154	180	98	49	25	97	83	122
1 1/4	84	251	45	84	94	167	9	180	180	118	59	45	97	83	122
1 1/2	97	251	51	84	94	167	9	203	180	135	68	45	97	83	122
2	124	273	65	106	94	167	9	258	180	176	88	45	97	83	122

Rp [inch]	L8 [mm]	M	z [mm]	z1 [mm]
3/8	33	6	86	43
1/2	33	6	84	42
3/4	33	6	99	50
1	33	6	112	56
1 1/4	33	8	132	66
1 1/2	33	8	153	77
2	33	8	196	98



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

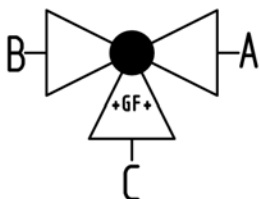
Horizontal/L-port 100-230V

With manual emergency override

With socket fusion spigots metric

Model:

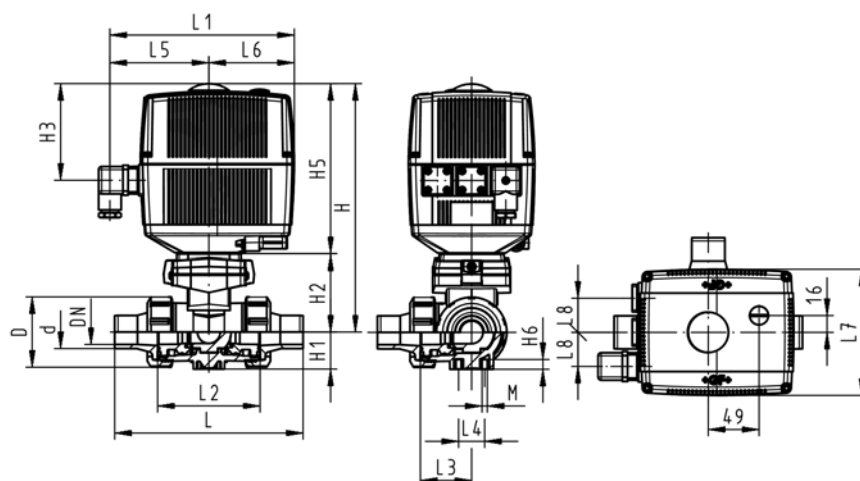
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 186 002	199 186 012
20	15	10	75	199 186 003	199 186 013
25	20	10	150	199 186 004	199 186 014
32	25	10	280	199 186 005	199 186 015
40	32	10	480	199 186 006	199 186 016
50	40	10	620	199 186 007	199 186 017
63	50	10	1230	199 186 008	199 186 018

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	126	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	136	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	159	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

Horizontal/L-port 100-230V

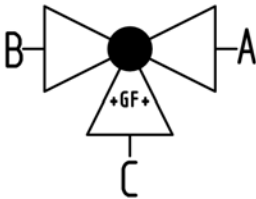
With manual emergency override

With butt fusion spigots

IR-Plus SDR11 metric

Model:

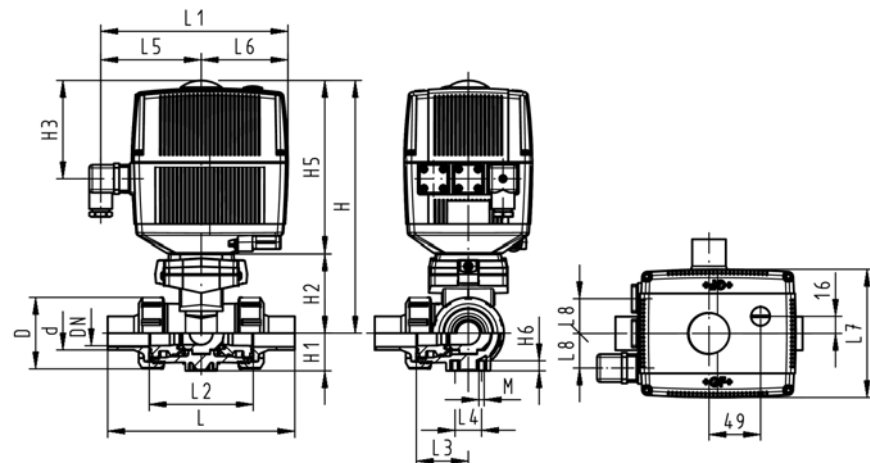
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
20	15	10	75	199 186 083	199 186 093
25	20	10	150	199 186 084	199 186 094
32	25	10	280	199 186 085	199 186 095
40	32	10	480	199 186 086	199 186 096
50	40	10	620	199 186 087	199 186 097
63	50	10	1230	199 186 088	199 186 098

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	28	64	94	167	8	146	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	163	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

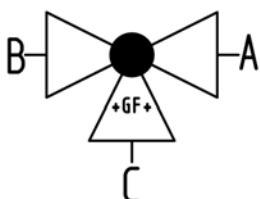
Horizontal/L-port 24V

With manual emergency override

With fusion sockets metric

Model:

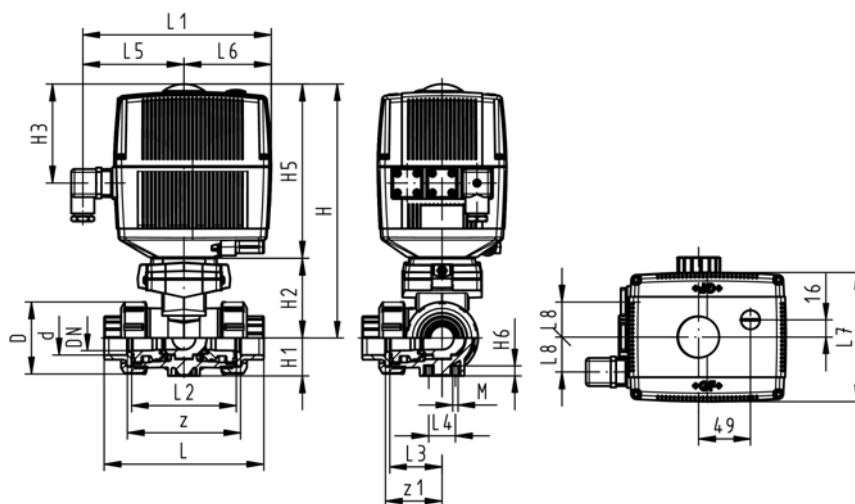
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 186 182	199 186 192
20	15	10	75	199 186 183	199 186 193
25	20	10	150	199 186 184	199 186 194
32	25	10	280	199 186 185	199 186 195
40	32	10	480	199 186 186	199 186 196
50	40	10	620	199 186 187	199 186 197
63	50	10	1230	199 186 188	199 186 198

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	110	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	82	41
20	33	6	82	41
25	33	6	97	49
32	33	6	110	55
40	33	8	132	66
50	33	8	151	76
63	33	8	188	94



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

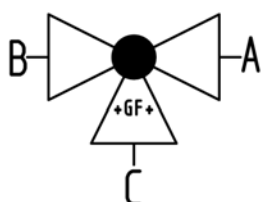
Horizontal/L-port 24V

With manual emergency override

With threaded sockets reinforced Rp

Model:

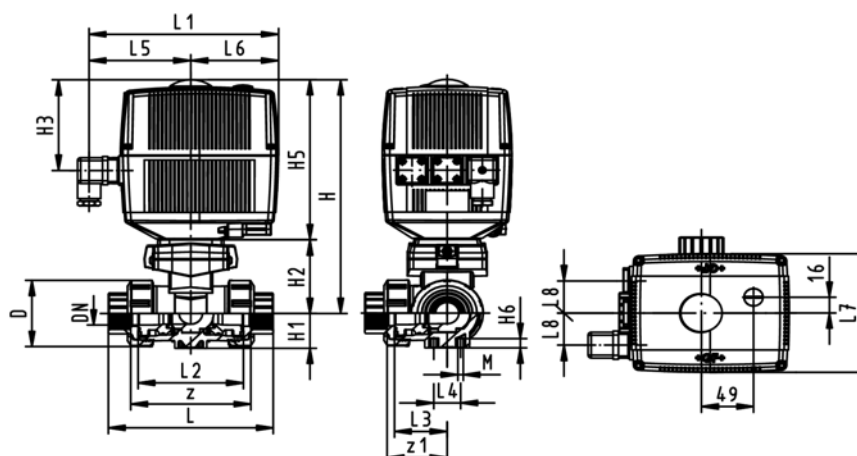
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	50	199 186 282	199 186 292
1/2	15	10	75	199 186 283	199 186 293
3/4	20	10	150	199 186 284	199 186 294
1	25	10	280	199 186 285	199 186 295
1 1/4	32	10	480	199 186 286	199 186 296
1 1/2	40	10	620	199 186 287	199 186 297
2	50	10	1230	199 186 288	199 186 298

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
3/8	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
1/2	50	231	28	64	94	167	8	114	180	72	36	25	97	83	122
3/4	58	240	32	73	94	167	8	131	180	85	43	25	97	83	122
1	68	240	36	73	94	167	8	154	180	98	49	25	97	83	122
1 1/4	84	251	45	84	94	167	9	180	180	118	59	45	97	83	122
1 1/2	97	251	51	84	94	167	9	203	180	135	68	45	97	83	122
2	124	273	65	106	94	167	9	258	180	176	88	45	97	83	122

Rp [inch]	L8 [mm]	M	z [mm]	z1 [mm]
3/8	33	6	86	43
1/2	33	6	84	42
3/4	33	6	99	50
1	33	6	112	56
1 1/4	33	8	132	66
1 1/2	33	8	153	77
2	33	8	196	98



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

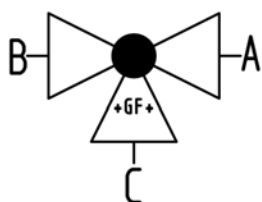
Horizontal/L-port 24V

With manual emergency override

With socket fusion spigots metric

Model:

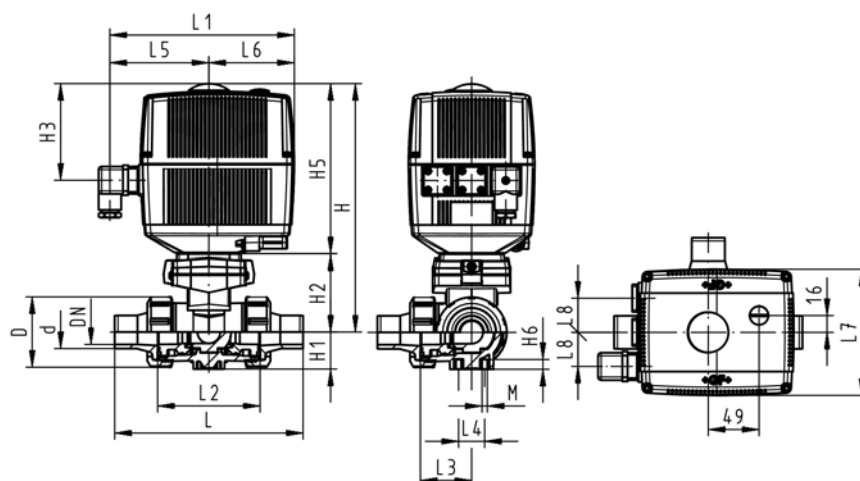
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 186 162	199 186 172
20	15	10	75	199 186 163	199 186 173
25	20	10	150	199 186 164	199 186 174
32	25	10	280	199 186 165	199 186 175
40	32	10	480	199 186 166	199 186 176
50	40	10	620	199 186 167	199 186 177
63	50	10	1230	199 186 168	199 186 178

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	126	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	136	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	159	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

Horizontal/L-port 24V

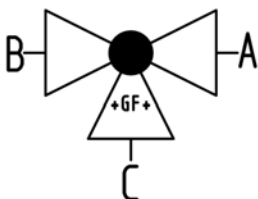
With manual emergency override

With butt fusion spigots

IR-Plus SDR11 metric

Model:

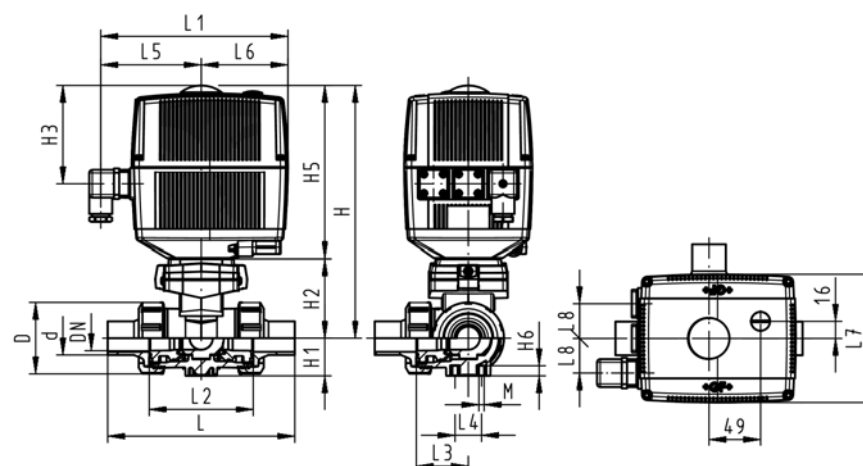
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	75	199 186 243	199 186 253
25	20	10	150	199 186 244	199 186 254
32	25	10	280	199 186 245	199 186 255
40	32	10	480	199 186 246	199 186 256
50	40	10	620	199 186 247	199 186 257
63	50	10	1230	199 186 248	199 186 258

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	28	64	94	167	8	146	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	163	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

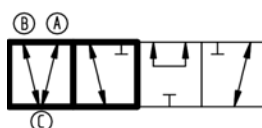
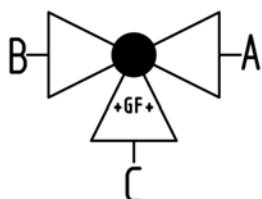
Horizontal/T-port 100-230V

With manual emergency override

With fusion sockets metric

Model:

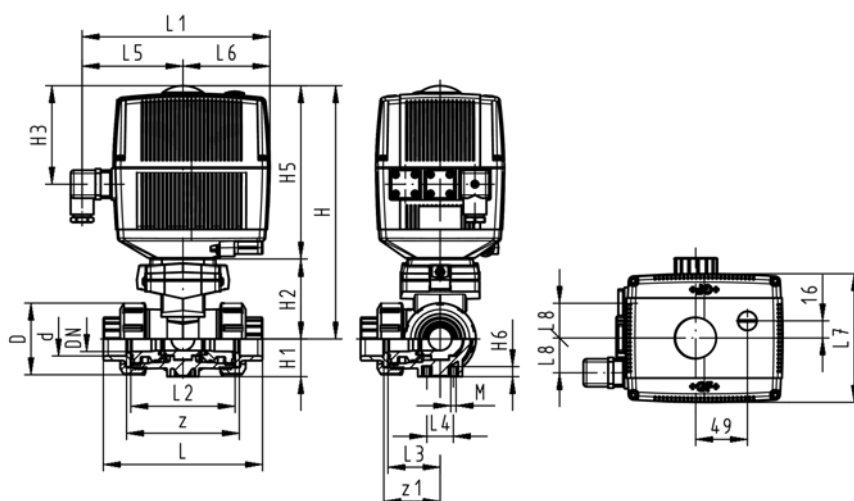
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 186 062	199 186 072
20	15	10	200	199 186 063	199 186 073
25	20	10	470	199 186 064	199 186 074
32	25	10	793	199 186 065	199 186 075
40	32	10	1290	199 186 066	199 186 076
50	40	10	1910	199 186 067	199 186 077
63	50	10	3100	199 186 068	199 186 078

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	110	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	82	41
20	33	6	82	41
25	33	6	97	49
32	33	6	110	55
40	33	8	132	66
50	33	8	151	76
63	33	8	188	94



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

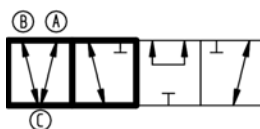
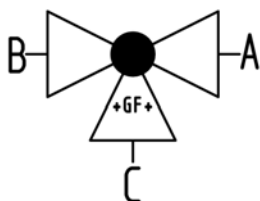
Horizontal/T-port 100-230V

With manual emergency override

With threaded sockets reinforced Rp

Model:

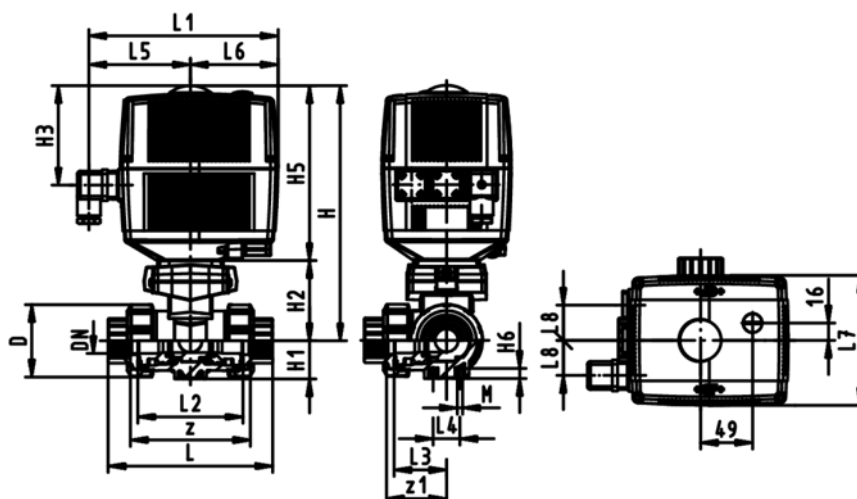
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	140	199 186 142	199 186 152
1/2	15	10	200	199 186 143	199 186 153
3/4	20	10	470	199 186 144	199 186 154
1	25	10	793	199 186 145	199 186 155
1 1/4	32	10	1290	199 186 146	199 186 156
1 1/2	40	10	1910	199 186 147	199 186 157
2	50	10	3100	199 186 148	199 186 158

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
3/8	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
1/2	50	231	28	64	94	167	8	114	180	72	36	25	97	83	122
3/4	58	240	32	73	94	167	8	131	180	85	43	25	97	83	122
1	68	240	36	73	94	167	8	154	180	98	49	25	97	83	122
1 1/4	84	251	45	84	94	167	9	180	180	118	59	45	97	83	122
1 1/2	97	251	51	84	94	167	9	203	180	135	68	45	97	83	122
2	124	273	65	106	94	167	9	258	180	176	88	45	97	83	122

Rp [inch]	L8 [mm]	M [mm]	z [mm]	z1 [mm]
3/8	33	6	86	43
1/2	33	6	84	42
3/4	33	6	99	50
1	33	6	112	56
1 1/4	33	8	132	66
1 1/2	33	8	153	77
2	33	8	196	98



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

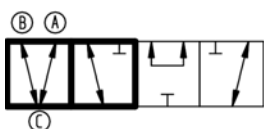
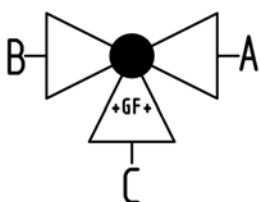
Horizontal/T-port 100-230V

With manual emergency override

With socket fusion spigots metric

Model:

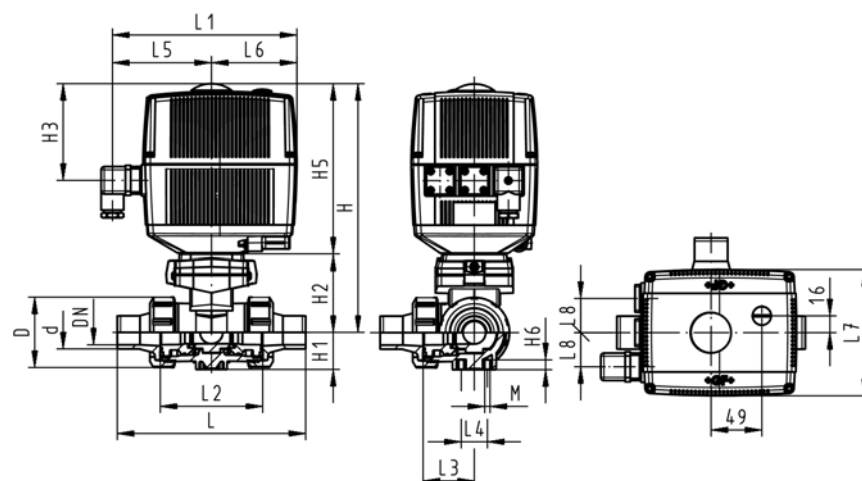
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 186 042	199 186 052
20	15	10	200	199 186 043	199 186 053
25	20	10	470	199 186 044	199 186 054
32	25	10	793	199 186 045	199 186 055
40	32	10	1290	199 186 046	199 186 056
50	40	10	1910	199 186 047	199 186 057
63	50	10	3100	199 186 048	199 186 058

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	126	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	136	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	159	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

Horizontal/T-port 100-230V

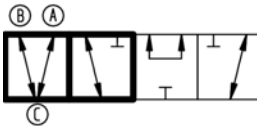
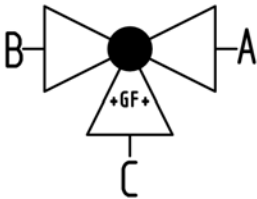
With manual emergency override

With butt fusion spigots

IR-Plus SDR11 metric

Model:

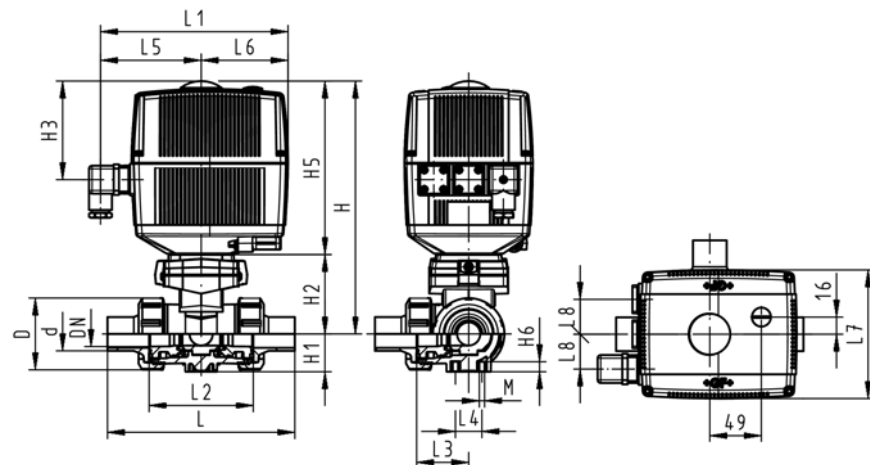
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	200	199 186 103	199 186 113
25	20	10	470	199 186 104	199 186 114
32	25	10	793	199 186 105	199 186 115
40	32	10	1290	199 186 106	199 186 116
50	40	10	1910	199 186 107	199 186 117
63	50	10	3100	199 186 108	199 186 118

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	28	64	94	167	8	146	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	163	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

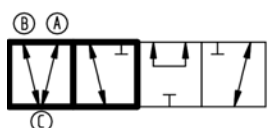
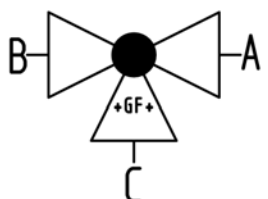
Horizontal/T-port 24V

With manual emergency override

With fusion sockets metric

Model:

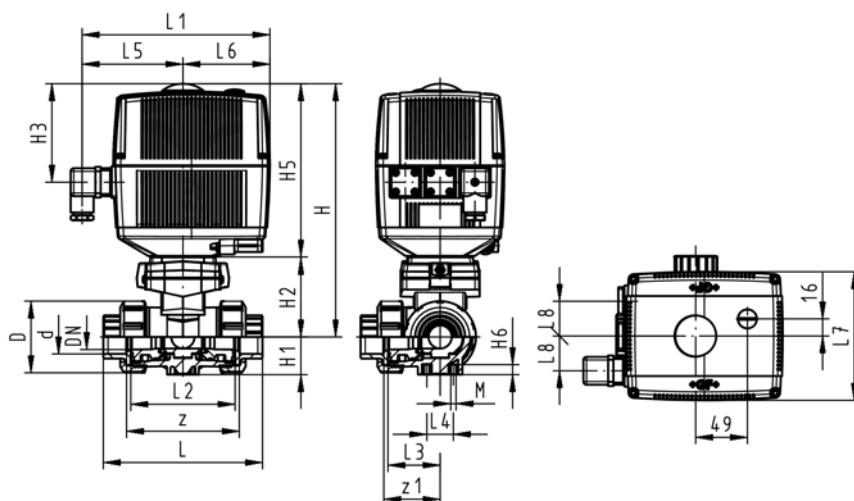
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 186 222	199 186 232
20	15	10	200	199 186 223	199 186 233
25	20	10	470	199 186 224	199 186 234
32	25	10	793	199 186 225	199 186 235
40	32	10	1290	199 186 226	199 186 236
50	40	10	1910	199 186 227	199 186 237
63	50	10	3100	199 186 228	199 186 238

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	110	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	82	41
20	33	6	82	41
25	33	6	97	49
32	33	6	110	55
40	33	8	132	66
50	33	8	151	76
63	33	8	188	94



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

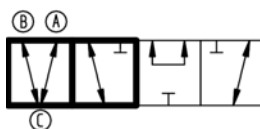
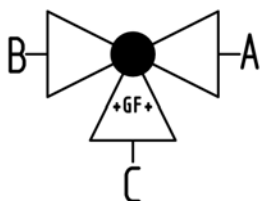
Horizontal/T-port 24V

With manual emergency override

With threaded sockets reinforced Rp

Model:

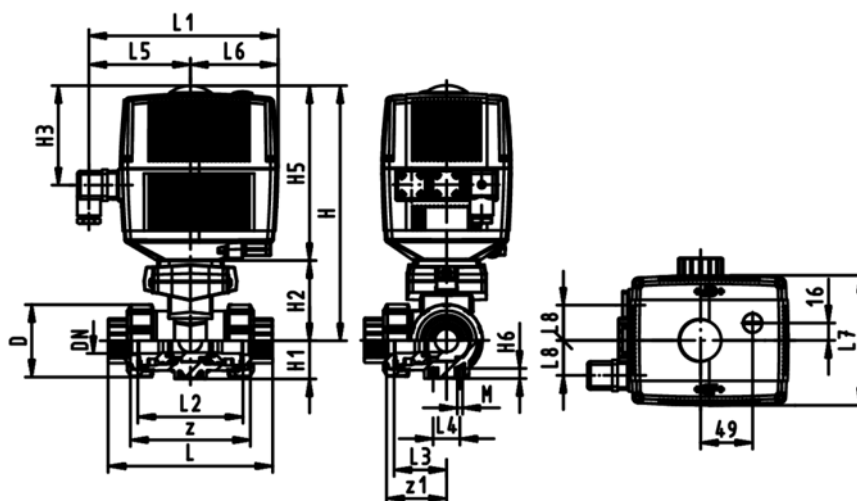
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	140	199 186 302	199 186 312
1/2	15	10	200	199 186 303	199 186 313
3/4	20	10	470	199 186 304	199 186 314
1	25	10	793	199 186 305	199 186 315
1 1/4	32	10	1290	199 186 306	199 186 316
1 1/2	40	10	1910	199 186 307	199 186 317
2	50	10	3100	199 186 308	199 186 318

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
3/8	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
1/2	50	231	28	64	94	167	8	114	180	72	36	25	97	83	122
3/4	58	240	32	73	94	167	8	131	180	85	43	25	97	83	122
1	68	240	36	73	94	167	8	154	180	98	49	25	97	83	122
1 1/4	84	251	45	84	94	167	9	180	180	118	59	45	97	83	122
1 1/2	97	251	51	84	94	167	9	203	180	135	68	45	97	83	122
2	124	273	65	106	94	167	9	258	180	176	88	45	97	83	122

Rp [inch]	L8 [mm]	M [mm]	z [mm]	z1 [mm]
3/8	33	6	86	43
1/2	33	6	84	42
3/4	33	6	99	50
1	33	6	112	56
1 1/4	33	8	132	66
1 1/2	33	8	153	77
2	33	8	196	98



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

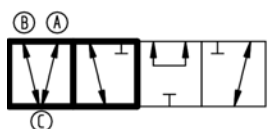
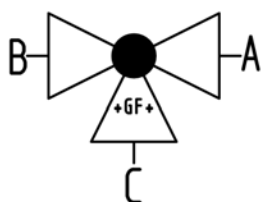
Horizontal/T-port 24V

With manual emergency override

With socket fusion spigots metric

Model:

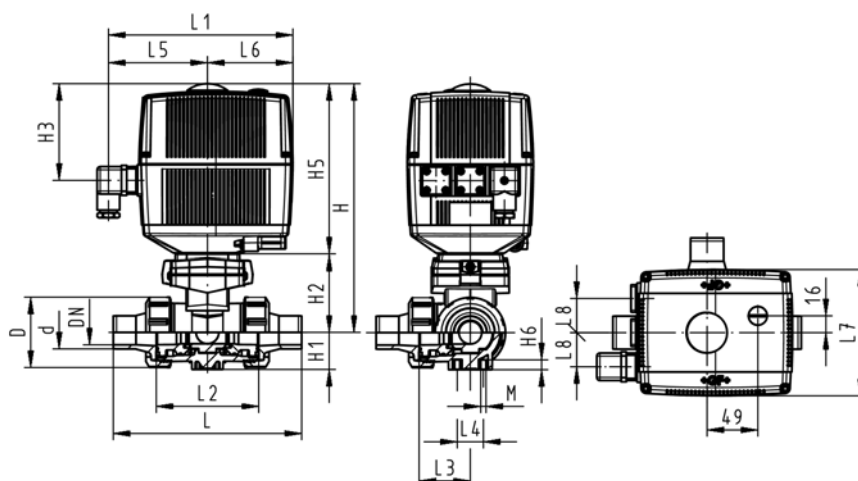
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 186 202	199 186 212
20	15	10	200	199 186 203	199 186 213
25	20	10	470	199 186 204	199 186 214
32	25	10	793	199 186 205	199 186 215
40	32	10	1290	199 186 206	199 186 216
50	40	10	1910	199 186 207	199 186 217
63	50	10	3100	199 186 208	199 186 218

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	126	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	136	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	159	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 186

Horizontal/T-port 24V

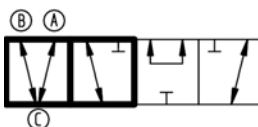
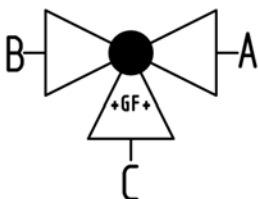
With manual emergency override

With butt fusion spigots

IR-Plus SDR11 metric

Model:

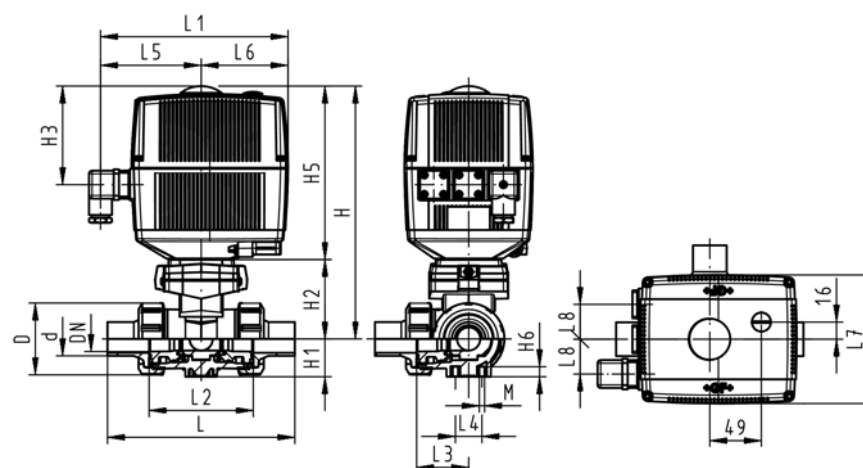
- Material: PP-H
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	200	199 186 263	199 186 273
25	20	10	470	199 186 264	199 186 274
32	25	10	793	199 186 265	199 186 275
40	32	10	1290	199 186 266	199 186 276
50	40	10	1910	199 186 267	199 186 277
63	50	10	3100	199 186 268	199 186 278

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	28	64	94	167	8	146	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	163	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



PROGEF Standard metric

Ball valves pneumatic

PROGEF Standard

Ball valve type 231 FC (Fail safe to close)

With manual override

With fusion sockets metric

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

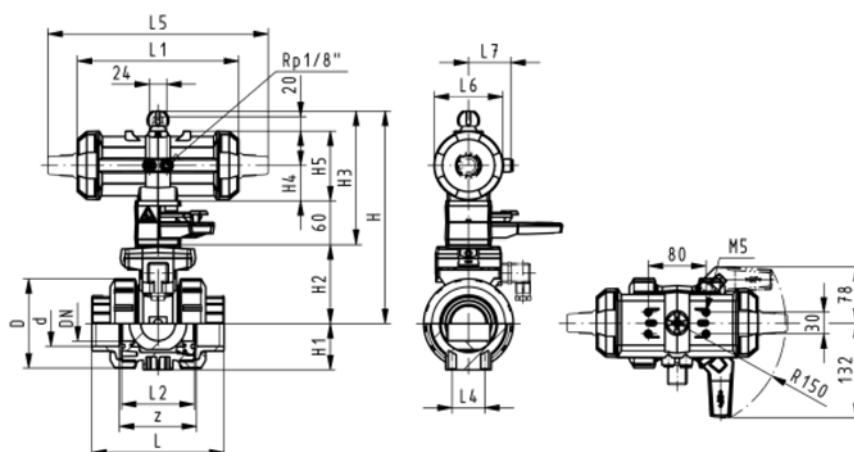
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 231 002	199 231 012
20	15	10	185	199 231 003	199 231 013
25	20	10	350	199 231 004	199 231 014
32	25	10	700	199 231 005	199 231 015
40	32	10	1000	199 231 006	199 231 016
50	40	10	1600	199 231 007	199 231 017
63	50	10	3100	199 231 008	199 231 018

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	93	194	56	25	261	76	48	67
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	66
25	58	168	30	71	168	40	77	108	194	65	25	261	76	48	77
32	68	168	36	71	168	40	77	118	194	71	25	261	76	48	83
40	84	202	44	84	187	51	99	137	224	85	45	305	95	59	99
50	97	202	51	84	187	51	99	147	224	89	45	305	95	59	105
63	124	225	64	106	187	51	99	168	224	101	45	305	95	59	117



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FC (Fail safe to close)

With manual override

With socket fusion spigots metric



DN10/15 - 50

Model:

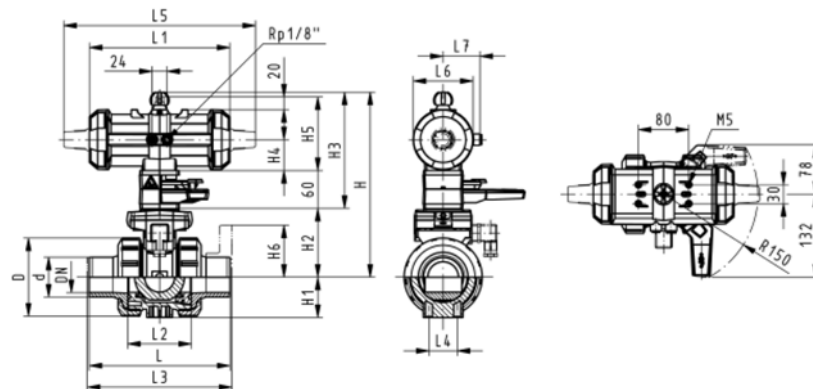
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 231 022	199 231 032
20	15	10	185	199 231 023	199 231 033
25	20	10	350	199 231 024	199 231 034
32	25	10	700	199 231 025	199 231 035
40	32	10	1000	199 231 026	199 231 036
50	40	10	1600	199 231 027	199 231 037
63	50	10	3100	199 231 028	199 231 038

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	110	194	56		25	261	76	48
20	50	159	27	62	168	40	77	120	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	139	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	150	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	170	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	190	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	220	224	101	230	45	305	95	59



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FC (Fail safe to close)

With manual override

With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

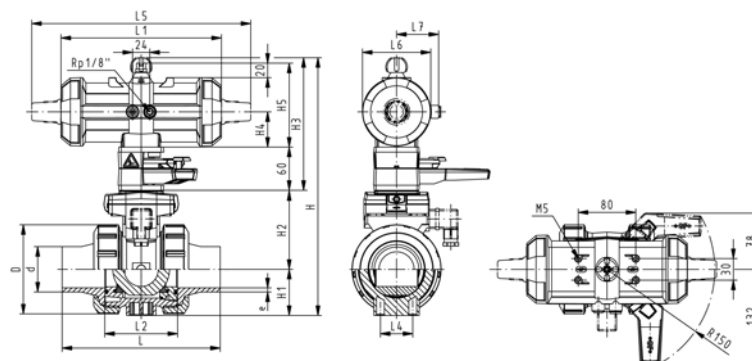


DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	185	199 231 623	199 231 633
25	20	10	350	199 231 624	199 231 634
32	25	10	700	199 231 625	199 231 635
40	32	10	1000	199 231 626	199 231 636
50	40	10	1600	199 231 627	199 231 637
63	50	10	3100	199 231 628	199 231 638

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	168	40	77	130	194	56		25	261	76	48
25	50	159	27	62	168	40	77	143	194	56	130	25	261	76	48
32	58	168	30	71	168	40	77	150	194	65	150	25	261	76	48
40	68	168	36	71	168	40	77	171	194	71	160	25	261	76	48
50	84	202	44	84	187	51	99	191	224	85	180	45	305	95	59
63	97	202	51	84	187	51	99	220	224	89	200	45	305	95	59

d [mm]	e [mm]
20	1.9
25	2.3
32	3.0
40	3.7
50	4.6
63	5.8



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FC (Fail safe to close)

With manual override

With fixed flanges PP-H serrated metric

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

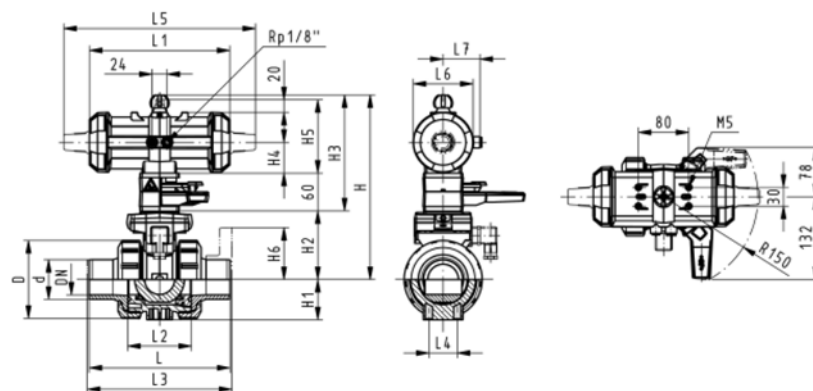


DN10/15 - 50

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
20	15	½	10	185	199 231 243	199 231 253
25	20	¾	10	350	199 231 244	199 231 254
32	25	1	10	700	199 231 245	199 231 255
40	32	1 ¼	10	1000	199 231 246	199 231 256
50	40	1 ½	10	1600	199 231 247	199 231 257
63	50	2	10	3100	199 231 248	199 231 258

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	27	62	168	40	77	48	120	194	56	130	25	261	76
25	58	168	30	71	168	40	77	53	139	194	65	150	25	261	76
32	68	168	36	71	168	40	77	58	150	194	71	160	25	261	76
40	84	202	44	84	187	51	99	70	170	224	85	180	45	305	95
50	97	202	51	84	187	51	99	75	190	224	89	200	45	305	95
63	124	225	64	106	187	51	99	83	220	224	101	230	45	305	95

d [mm]	L7 [mm]
20	48
25	48
32	48
40	59
50	59
63	59



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FO (Fail safe to open)

With manual override

With fusion sockets metric

Model:

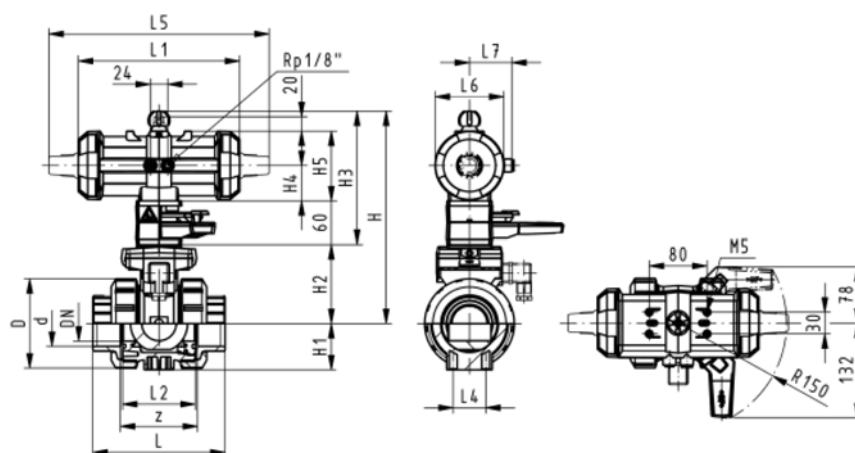
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 231 042	199 231 052
20	15	10	185	199 231 043	199 231 053
25	20	10	350	199 231 044	199 231 054
32	25	10	700	199 231 045	199 231 055
40	32	10	1000	199 231 046	199 231 056
50	40	10	1600	199 231 047	199 231 057
63	50	10	3100	199 231 048	199 231 058

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	93	194	56	25	261	76	48	67
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	66
25	58	168	30	71	168	40	77	108	194	65	25	261	76	48	77
32	68	168	36	71	168	40	77	118	194	71	25	261	76	48	83
40	84	202	44	84	187	51	99	137	224	85	45	305	95	59	99
50	97	202	51	84	187	51	99	147	224	89	45	305	95	59	105
63	124	225	64	106	187	51	99	168	224	101	45	305	95	59	117



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FO (Fail safe to open)

With manual override

With socket fusion spigots metric



DN10/15 - 50

Model:

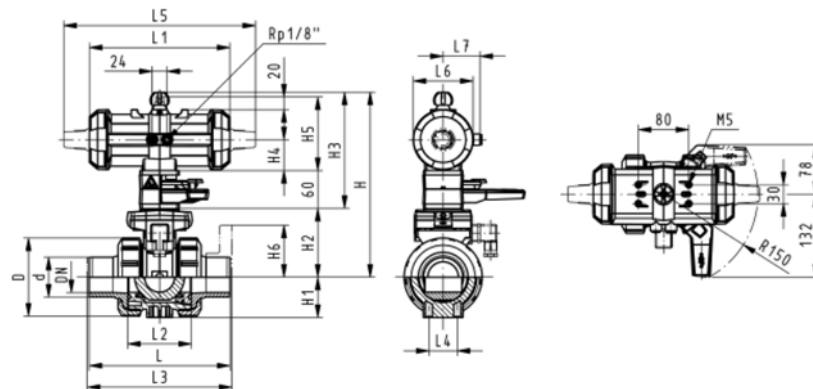
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 231 062	199 231 072
20	15	10	185	199 231 063	199 231 073
25	20	10	350	199 231 064	199 231 074
32	25	10	700	199 231 065	199 231 075
40	32	10	1000	199 231 066	199 231 076
50	40	10	1600	199 231 067	199 231 077
63	50	10	3100	199 231 068	199 231 078

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	110	194	56	130	25	261	76	48
20	50	159	27	62	168	40	77	120	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	139	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	150	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	170	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	190	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	220	224	101	230	45	305	95	59



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FO (Fail safe to open)

With manual override

With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

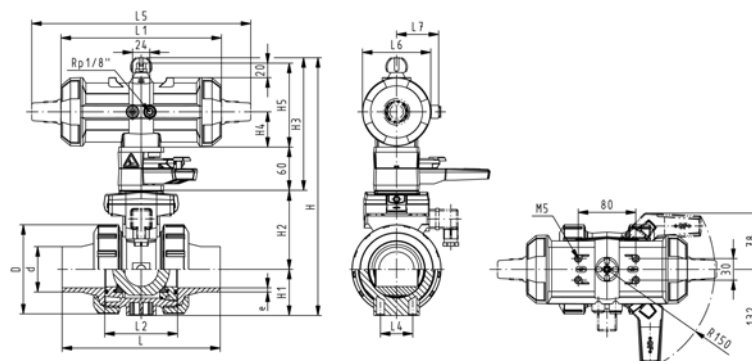


DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
20	15	10	185	199 231 643	199 231 653
25	20	10	350	199 231 644	199 231 654
32	25	10	700	199 231 645	199 231 655
40	32	10	1000	199 231 646	199 231 656
50	40	10	1600	199 231 647	199 231 657
63	50	10	3100	199 231 648	199 231 658

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	168	40	77	130	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	143	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	150	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	171	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	191	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	220	224	101	230	45	305	95	59

d [mm]	e [mm]
20	1.9
25	2.3
32	3.0
40	3.7
50	4.6
63	5.8



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FO (Fail safe to open)

With manual override

With fixed flanges PP-H serrated metric

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

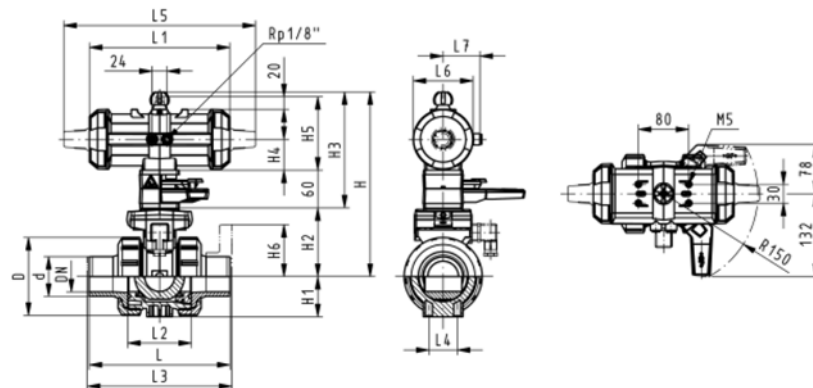


DN10/15 - 50

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
20	15	½	10	185	199 231 263	199 231 273
25	20	¾	10	350	199 231 264	199 231 274
32	25	1	10	700	199 231 265	199 231 275
40	32	1 ¼	10	1000	199 231 266	199 231 276
50	40	1 ½	10	1600	199 231 267	199 231 277
63	50	2	10	3100	199 231 268	199 231 278

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	58	159	27	62	168	40	77	48	120	194	56	130	25	261	76
25	58	168	30	71	168	40	77	53	139	194	65	150	25	261	76
32	68	168	36	71	168	40	77	58	150	194	71	160	25	261	76
40	84	202	44	84	187	51	99	70	170	224	85	180	45	305	95
50	97	202	51	84	187	51	99	75	190	224	89	200	45	305	95
63	124	225	64	106	187	51	99	83	220	224	101	230	45	305	95

d [mm]	L7 [mm]
20	48
25	48
32	48
40	59
50	59
63	59



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 DA (Double acting)

With manual override

With fusion sockets metric

Model:

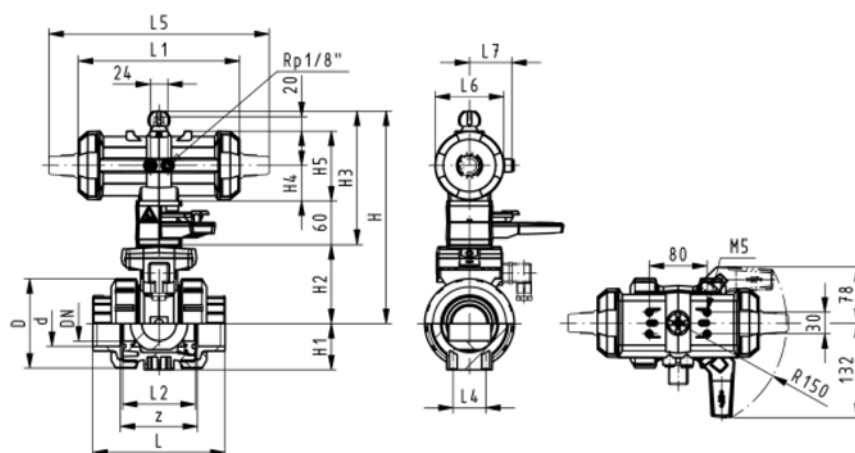
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 231 082	199 231 092
20	15	10	185	199 231 083	199 231 093
25	20	10	350	199 231 084	199 231 094
32	25	10	700	199 231 085	199 231 095
40	32	10	1000	199 231 086	199 231 096
50	40	10	1600	199 231 087	199 231 097
63	50	10	3100	199 231 088	199 231 098

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	93	194	56	25	261	76	48	67
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	66
25	58	168	30	71	168	40	77	108	194	65	25	261	76	48	77
32	68	168	36	71	168	40	77	118	194	71	25	261	76	48	83
40	84	202	44	84	187	51	99	137	224	85	45	305	95	59	99
50	97	202	51	84	187	51	99	147	224	89	45	305	95	59	105
63	124	225	64	106	187	51	99	168	224	101	45	305	95	59	117



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 DA (Double acting)

With manual override

With socket fusion spigots metric



DN10/15 - 50

Model:

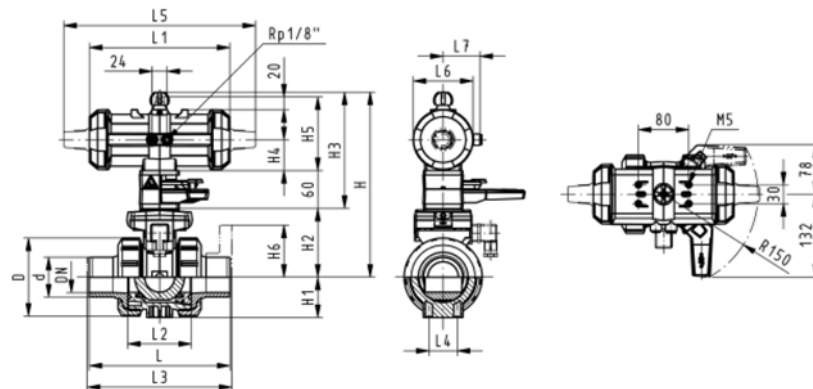
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 231 102	199 231 112
20	15	10	185	199 231 103	199 231 113
25	20	10	350	199 231 104	199 231 114
32	25	10	700	199 231 105	199 231 115
40	32	10	1000	199 231 106	199 231 116
50	40	10	1600	199 231 107	199 231 117
63	50	10	3100	199 231 108	199 231 118

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	110	194	56		25	261	76	48
20	50	159	27	62	168	40	77	120	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	139	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	150	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	170	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	190	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	220	224	101	230	45	305	95	59



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 DA (Double acting)

With manual override

With butt fusion spigots IR-Plus SDR11 metric

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

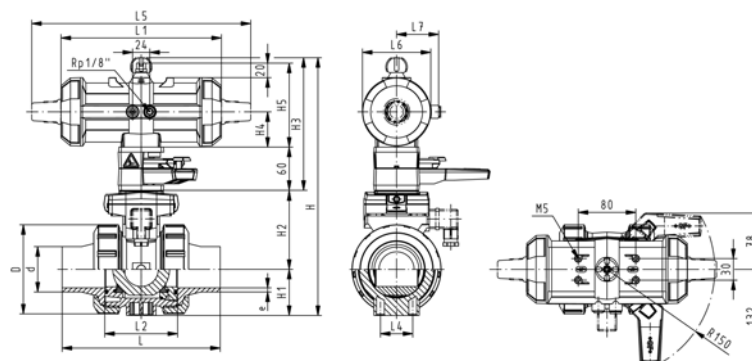


DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
20	15	10	185	199 231 663	199 231 673
25	20	10	350	199 231 664	199 231 674
32	25	10	700	199 231 665	199 231 675
40	32	10	1000	199 231 666	199 231 676
50	40	10	1600	199 231 667	199 231 677
63	50	10	3100	199 231 668	199 231 678

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	168	40	77	130	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	143	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	150	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	171	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	191	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	220	224	101	230	45	305	95	59

d [mm]	e [mm]
20	1.9
25	2.3
32	3.0
40	3.7
50	4.6
63	5.8



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 DA (Double acting)

With manual override

With fixed flanges PP-H serrated metric



DN10/15 - 50

Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

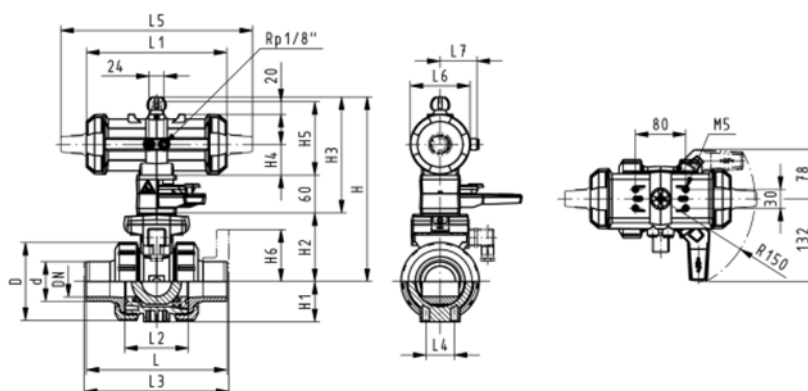
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
20	15	½	10	185	199 231 283	199 231 293
25	20	¾	10	350	199 231 284	199 231 294
32	25	1	10	700	199 231 285	199 231 295
40	32	1 ¼	10	1000	199 231 286	199 231 296
50	40	1 ½	10	1600	199 231 287	199 231 297
63	50	2	10	3100	199 231 288	199 231 298

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	27	62	168	40	77	48	120	194	56	130	25	261	76
25	58	168	30	71	168	40	77	53	139	194	65	150	25	261	76
32	68	168	36	71	168	40	77	58	150	194	71	160	25	261	76
40	84	202	44	84	187	51	99	70	170	224	85	180	45	305	95
50	97	202	51	84	187	51	99	75	190	224	89	200	45	305	95
63	124	225	64	106	187	51	99	83	220	224	101	230	45	305	95

d [mm]	L7 [mm]
20	48
25	48
32	48
40	59
50	59
63	59



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FC (Fail safe to close)

Without manual override

With fusion sockets metric

Model:

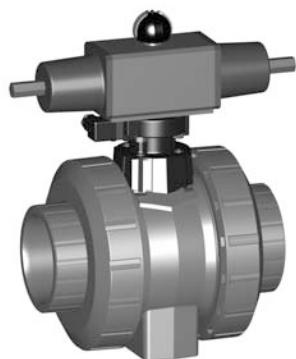
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

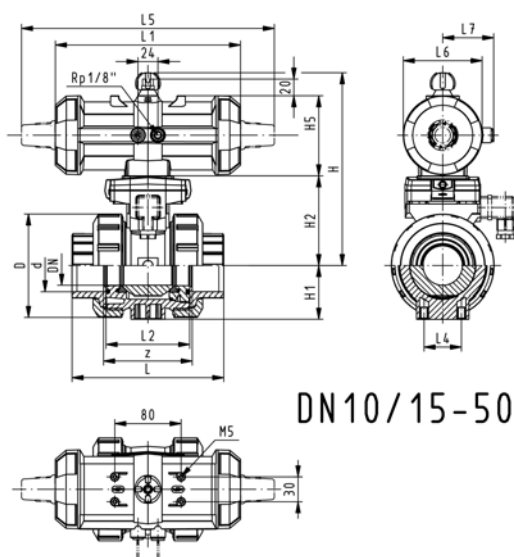


DN10/15 - 50

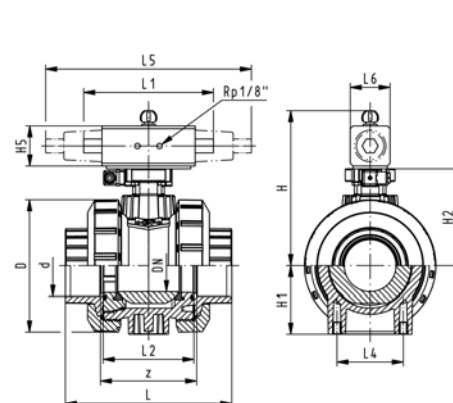


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 231 122	199 231 132
20	15	10	185	199 231 123	199 231 133
25	20	10	350	199 231 124	199 231 134
32	25	10	700	199 231 125	199 231 135
40	32	10	1000	199 231 126	199 231 136
50	40	10	1600	199 231 127	199 231 137
63	50	10	3100	199 231 128	199 231 138
75	65	10	5000	199 231 129	199 231 139
90	80	10	7000	199 231 130	199 231 140
110	100	10	11000	199 231 131	199 231 141

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	77	93	194	56	25	261	76	48	67
20	50	159	27	62	77	95	194	56	25	261	76	48	66
25	58	168	30	71	77	108	194	65	25	261	76	48	77
32	68	168	36	71	77	118	194	71	25	261	76	48	83
40	84	202	44	84	99	137	224	85	45	305	95	59	99
50	97	202	51	84	99	147	224	89	45	305	95	59	105
63	124	225	64	106	99	168	224	101	45	305	95	59	117
75	166	262	85	156	70	233		136	70	276	65		167
90	200	281	105	168	78	254		141	70	341	72		180
110	238	292	123	175	86	301		164	120	369	80		215



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

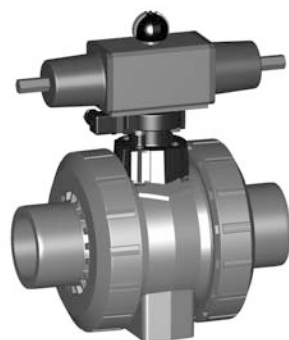
Ball valve type 231 FC (Fail safe to close)

Without manual override

With socket fusion spigots metric



DN10/15 - 50



Model:

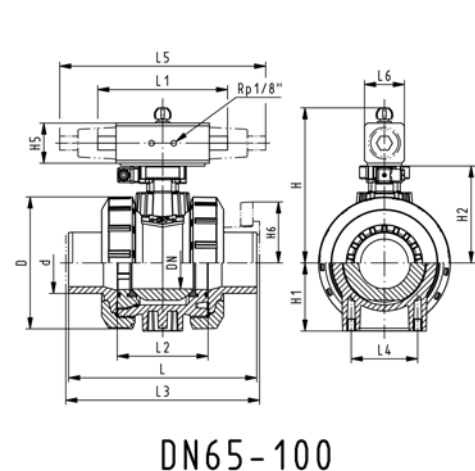
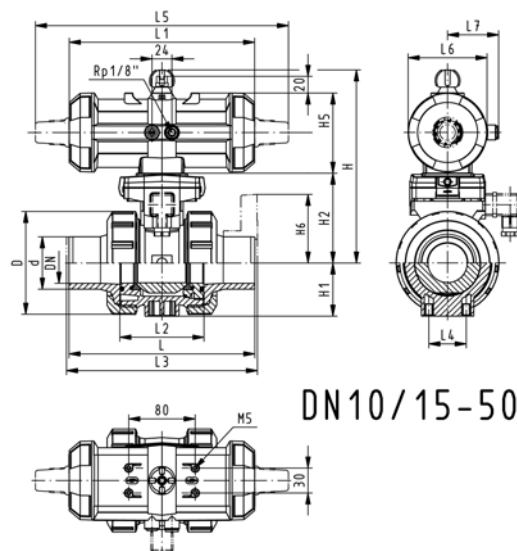
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90° < 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 231 142	199 231 152
20	15	10	185	199 231 143	199 231 153
25	20	10	350	199 231 144	199 231 154
32	25	10	700	199 231 145	199 231 155
40	32	10	1000	199 231 146	199 231 156
50	40	10	1600	199 231 147	199 231 157
63	50	10	3100	199 231 148	199 231 158
75	65	10	5000	199 231 149	199 231 159
90	80	10	7000	199 231 150	199 231 160
110	100	10	11000	199 231 151	199 231 161

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	77	110	194	56	130	25	261	76	48
20	50	159	27	62	77	120	194	56	130	25	261	76	48
25	58	168	30	71	77	139	194	65	150	25	261	76	48
32	68	168	36	71	77	150	194	71	160	25	261	76	48
40	84	202	44	84	99	170	224	85	180	45	305	95	59
50	97	202	51	84	99	190	224	89	200	45	305	95	59
63	124	225	64	106	99	220	224	101	230	45	305	95	59
75	166	262	85	156	70	280		136	290	70	276	65	
90	200	281	105	168	78	296		141	310	70	341	72	
110	238	292	123	175	86	336		164	350	120	369	80	



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FC (Fail safe to close)

Without manual override

With fixed flanges PP-H serrated metric



DN10/15 - 50

Model:

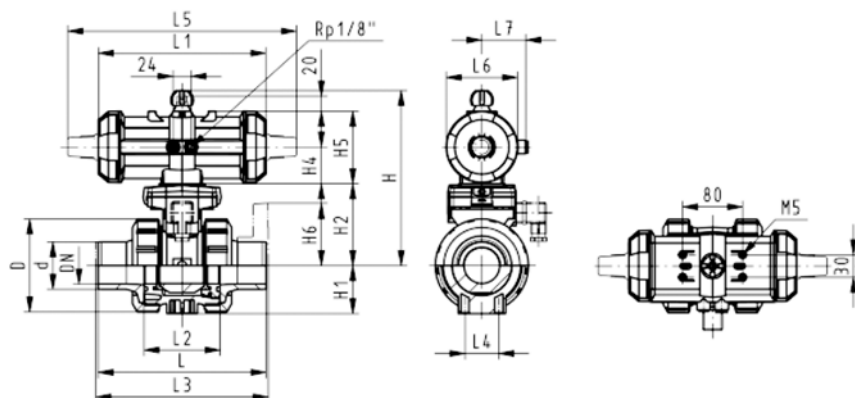
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
20	15	½	10	185	199 231 423	199 231 433
25	20	¾	10	350	199 231 424	199 231 434
32	25	1	10	700	199 231 425	199 231 435
40	32	1 ¼	10	1000	199 231 426	199 231 436
50	40	1 ½	10	1600	199 231 427	199 231 437
63	50	2	10	3100	199 231 428	199 231 438

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	40	77	48	120	194	56	130	25	261	76	48
25	58	168	30	71	40	77	53	140	194	65	150	25	261	76	48
32	68	168	36	71	40	77	58	150	194	71	160	25	261	76	48
40	84	202	44	84	51	99	70	170	224	85	180	45	305	95	59
50	97	202	51	84	51	99	75	190	224	89	200	45	305	95	59
63	124	225	64	106	51	99	83	220	224	101	230	45	305	95	59



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FC (Fail safe to close)

Without manual override

With backing flanges PP-st metric



Model:

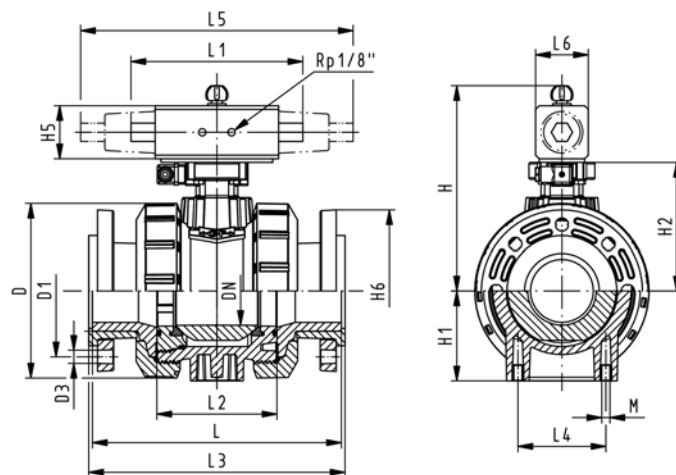
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code							
75	65	2 1/2	10	5000	199 231 329	199 231 339							
90	80	3	10	7000	199 231 330	199 231 340							
110	100	4	10	11000	199 231 331	199 231 341							

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	
75	166	262	85	156	70	93	280	136	290	70	276	65	
90	200	281	105	168	78	100	296	141	310	70	341	72	
110	238	292	123	175	86	110	336	164	350	120	369	80	



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FC (Fail safe to close)

Without manual override

With butt fusion spigots IR-Plus SDR11 metric

Model:

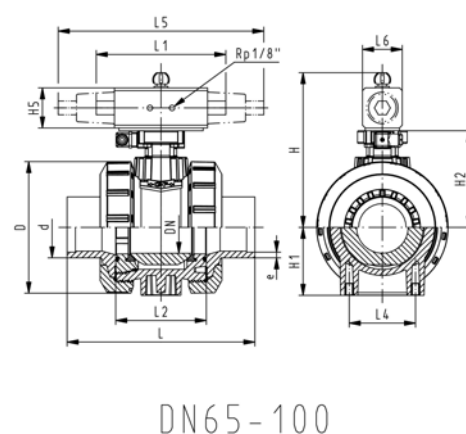
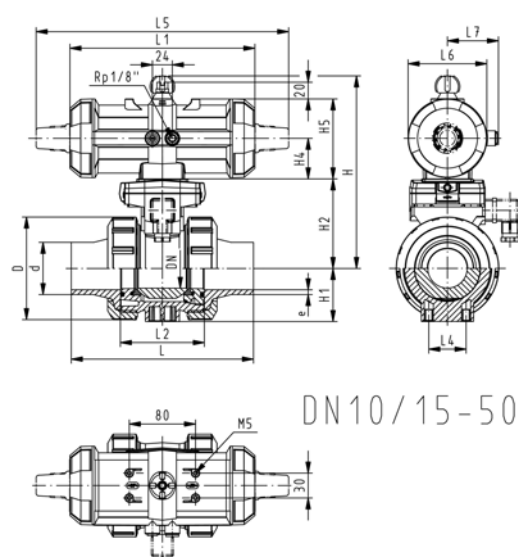
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	185	199 231 833	199 231 843
25	20	10	350	199 231 834	199 231 844
32	25	10	700	199 231 835	199 231 845
40	32	10	1000	199 231 836	199 231 846
50	40	10	1600	199 231 837	199 231 847
63	50	10	3100	199 231 838	199 231 848
75	65	10	5000	199 231 839	199 231 849
90	80	10	7000	199 231 840	199 231 850
110	100	10	11000	199 231 841	199 231 851

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	e [mm]
20	50	159	27	62	77	130	194.0	56	130	25	261	76	1.9
25	58	168	30	71	77	143	194.0	65	150	25	261	76	2.3
32	68	168	36	71	77	150	194.0	71	160	25	261	76	3.0
40	84	202	44	84	99	171	224.0	85	180	45	305	95	3.7
50	97	202	51	84	99	191	224.0	89	200	45	305	95	4.6
63	142	225	64	106	99	220	224.0	101	230	45	305	95	5.8
75	166	262	85	156	70	266	270.0	136	290	70	276	65	8.2
90	200	281	105	168	78	264	270.0	141	310	70	341	72	9.9
110	238	292	123	175	86	301	320.0	164	350	120	369	80	12.0



PROGEF Standard metric

PROGEF Standard

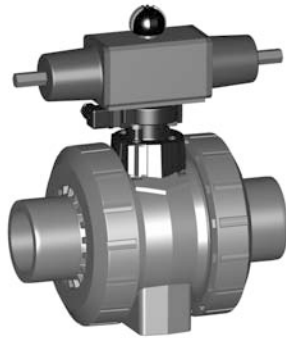
Ball valve type 231 FC (Fail safe to close)

Without manual override

With butt fusion spigots SDR17.6 metric



DN10/15 - 50



Model:

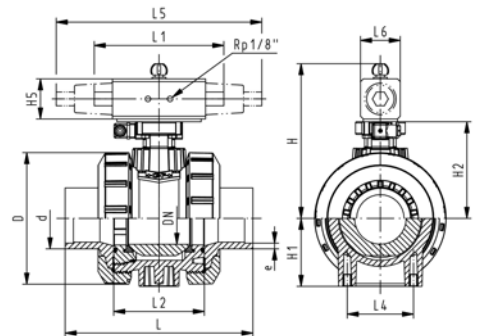
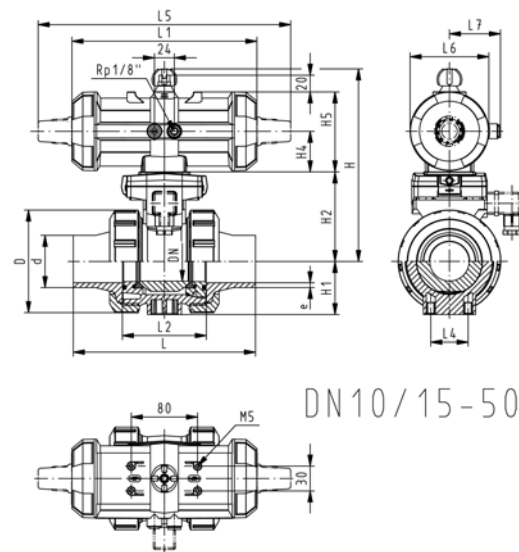
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
75	65	10	5000	199 231 939	199 231 949
90	80	10	7000	199 231 940	199 231 950
110	100	10	11000	199 231 941	199 231 951

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	e [mm]
75	166	262	85	156	70	266	136	290	70	276	65	4.6
90	200	281	105	168	78	264	141	310	70	341	72	5.5
110	238	292	123	175	86	301	164	350	120	369	80	6.7



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FO (Fail safe to open)

Without manual override

With fusion sockets metric

Model:

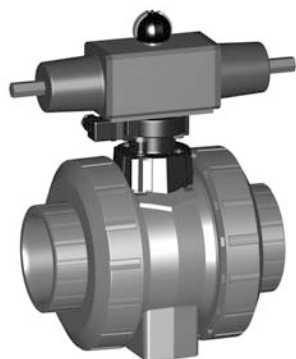
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

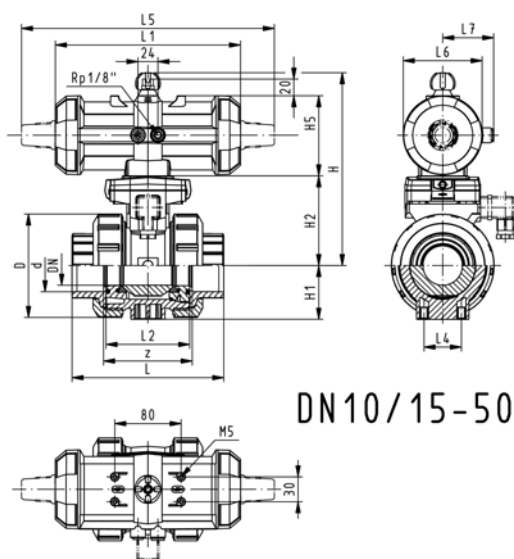


DN10/15 - 50

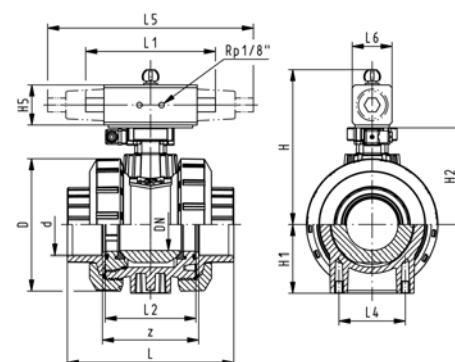


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 231 162	199 231 172
20	15	10	185	199 231 163	199 231 173
25	20	10	350	199 231 164	199 231 174
32	25	10	700	199 231 165	199 231 175
40	32	10	1000	199 231 166	199 231 176
50	40	10	1600	199 231 167	199 231 177
63	50	10	3100	199 231 168	199 231 178
75	65	10	5000	199 231 169	199 231 179
90	80	10	7000	199 231 170	199 231 180
110	100	10	11000	199 231 171	199 231 181

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	77	93	194	56	25	261	76	48	66
20	50	159	27	62	77	95	194	56	25	261	76	48	67
25	58	168	30	71	77	108	194	65	25	261	76	48	77
32	68	168	36	71	77	118	194	71	25	261	76	48	83
40	84	202	44	84	99	137	224	85	45	305	95	59	99
50	97	202	51	84	99	147	224	89	45	305	95	59	105
63	124	225	64	106	99	168	224	101	45	305	95	59	117
75	166	262	85	156	70	233		136	70	276	65		167
90	200	281	105	168	78	254		141	70	341	72		180
110	238	292	123	175	86	301		164	120	369	80		215



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

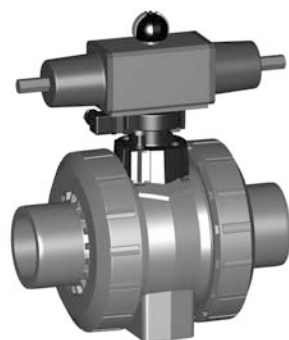
Ball valve type 231 FO (Fail safe to open)

Without manual override

With socket fusion spigots metric



DN10/15 - 50



Model:

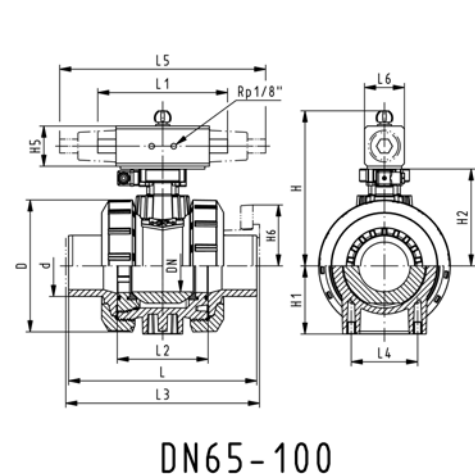
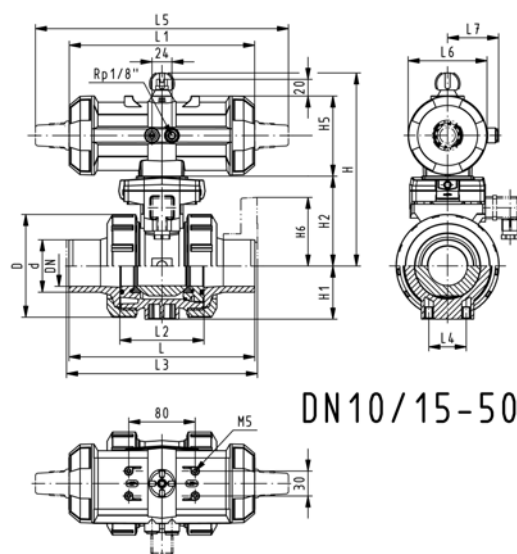
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90° < 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 231 182	199 231 192
20	15	10	185	199 231 183	199 231 193
25	20	10	350	199 231 184	199 231 194
32	25	10	700	199 231 185	199 231 195
40	32	10	1000	199 231 186	199 231 196
50	40	10	1600	199 231 187	199 231 197
63	50	10	3100	199 231 188	199 231 198
75	65	10	5000	199 231 189	199 231 199
90	80	10	7000	199 231 190	199 231 200
110	100	10	11000	199 231 191	199 231 201

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	77	110	194	56	130	25	261	76	48
20	50	159	27	62	77	120	194	56	130	25	261	76	48
25	58	168	30	71	77	139	194	65	150	25	261	76	48
32	68	168	36	71	77	150	194	71	160	25	261	76	48
40	84	202	44	84	99	170	224	85	180	45	305	95	59
50	97	202	51	84	99	190	224	89	200	45	305	95	59
63	124	225	64	106	99	220	224	101	230	45	305	95	59
75	166	262	85	156	70	280		136	290	70	276	65	
90	200	281	105	168	78	296		141	310	70	341	72	
110	238	292	123	175	86	336		164	350	120	369	80	



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FO (Fail safe to open)

Without manual override

With fixed flanges PP-H serrated metric



DN10/15 - 50

Model:

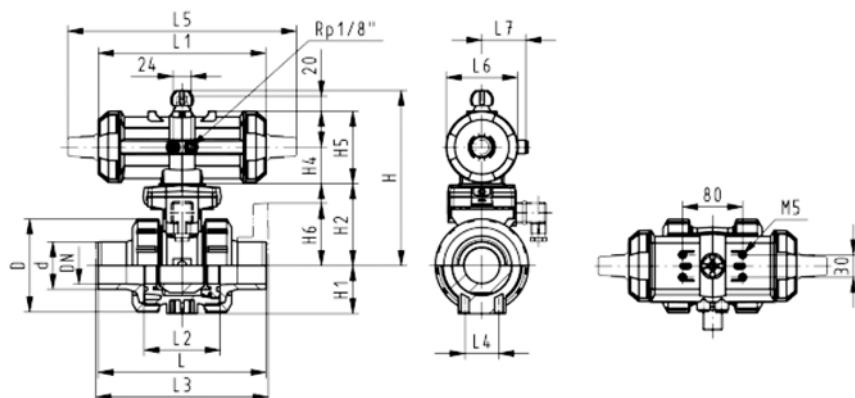
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	½	10	185	199 231 443	199 231 453
25	20	¾	10	350	199 231 444	199 231 454
32	25	1	10	700	199 231 445	199 231 455
40	32	1 ¼	10	1000	199 231 446	199 231 456
50	40	1 ½	10	1600	199 231 447	199 231 457
63	50	2	10	3100	199 231 448	199 231 458

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	40	77	48	120	194	56	130	25	261	76	48
25	58	168	30	71	40	77	53	140	194	65	150	25	261	76	48
32	68	168	36	71	40	77	58	150	194	71	160	25	261	76	48
40	84	202	44	84	51	99	70	170	224	85	180	45	305	95	59
50	97	202	51	84	51	99	75	190	224	89	200	45	305	95	59
63	124	225	64	106	51	99	83	220	224	101	230	45	305	95	59



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FO (Fail safe to open)

Without manual override

With backing flanges PP-st metric



Model:

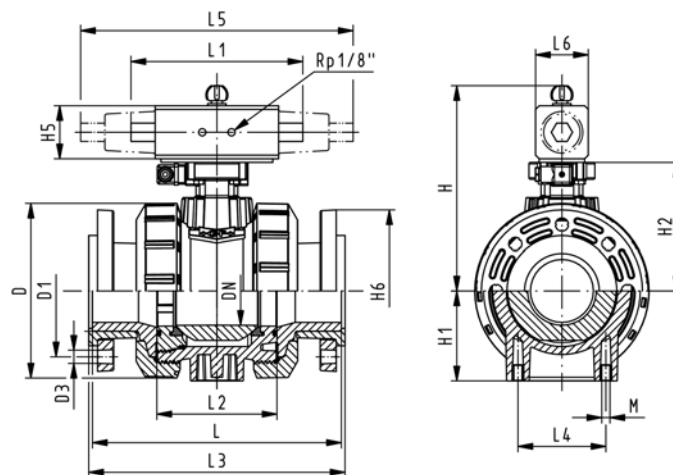
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code							
75	65	2 1/2	10	5000	199 231 349	199 231 359							
90	80	3	10	7000	199 231 350	199 231 360							
110	100	4	10	11000	199 231 351	199 231 361							

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	
75	166	262	85	156	70	93	280	136	290	70	276	65	
90	200	281	105	168	78	100	296	141	310	70	341	72	
110	238	292	123	175	86	110	336	164	350	120	369	80	



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 FO (Fail safe to open)

Without manual override

With butt fusion spigots IR-Plus SDR11 metric

Model:

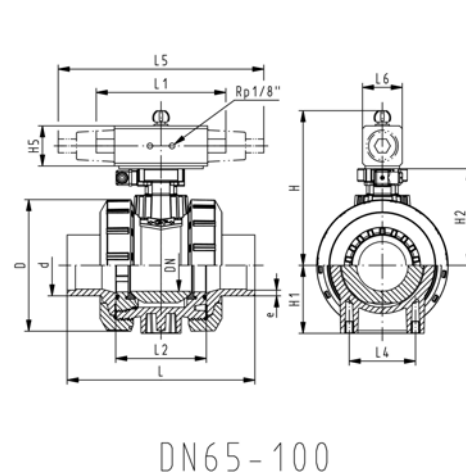
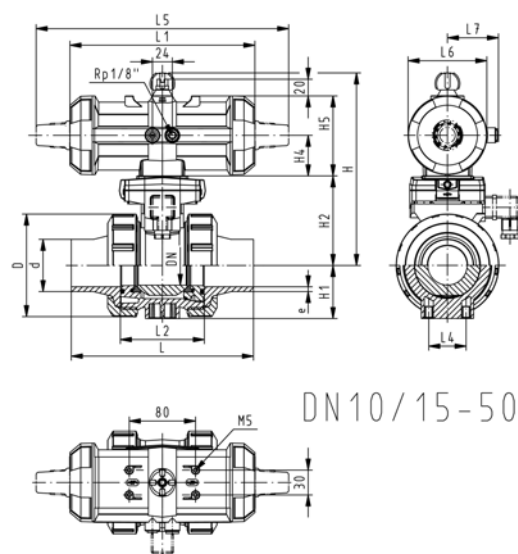
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°< 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	185	199 231 853	199 231 863
25	20	10	350	199 231 854	199 231 864
32	25	10	700	199 231 855	199 231 865
40	32	10	1000	199 231 856	199 231 866
50	40	10	1600	199 231 857	199 231 867
63	50	10	3100	199 231 858	199 231 868
75	65	10	5000	199 231 859	199 231 869
90	80	10	7000	199 231 860	199 231 870
110	100	10	11000	199 231 861	199 231 871

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	e [mm]
20	50	159	27	62	77	120	194	56	130	25	261	76	1.9
25	58	168	30	71	77	139	194	65	150	25	261	76	2.3
32	68	168	36	71	77	150	194	71	160	25	261	76	3.0
40	84	202	44	84	99	170	224	85	180	45	305	95	3.7
50	97	202	51	84	99	190	224	89	200	45	305	95	4.6
63	124	225	64	106	99	220	224	101	230	45	305	95	5.8
75	166	262	85	156	70	266	218	136	290	70	276	65	8.2
90	200	281	105	168	78	264	259	141	310	70	341	72	9.9
110	238	292	123	175	86	301	287	164	350	120	369	80	12.0



PROGEF Standard metric

PROGEF Standard

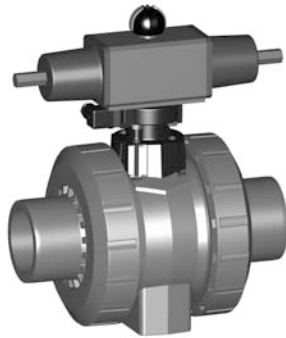
Ball valve type 231 FO (Fail safe to open)

Without manual override

With butt fusion spigots SDR17.6 metric



DN10/15 - 50



Model:

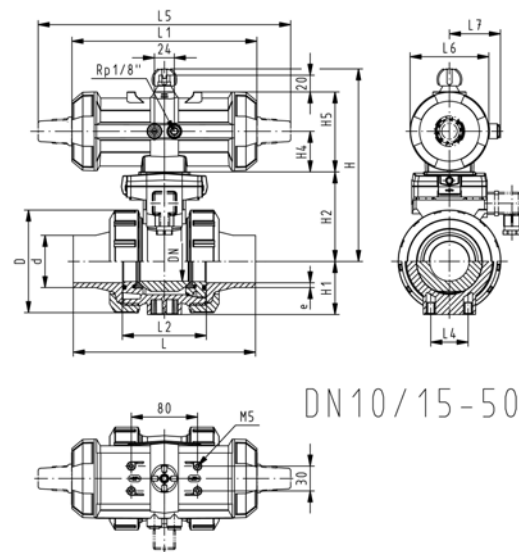
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90° < 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

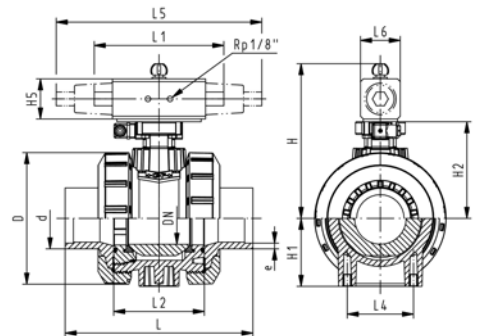
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
75	65	10	5000	199 231 959	199 231 969
90	80	10	7000	199 231 960	199 231 970
110	100	10	11000	199 231 961	199 231 971

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	e [mm]
75	166	262	85	156	70	266	136	290	70	276	65	4.6
90	200	281	105	168	78	264	141	310	70	341	72	5.5
110	238	292	123	175	86	301	164	350	120	369	80	6.7



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

Ball valve type 231 DA (Double acting)

Without manual override

With fusion sockets metric

Model:

- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°< 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

Option:

- Individual configuration of the valve (see diagram)

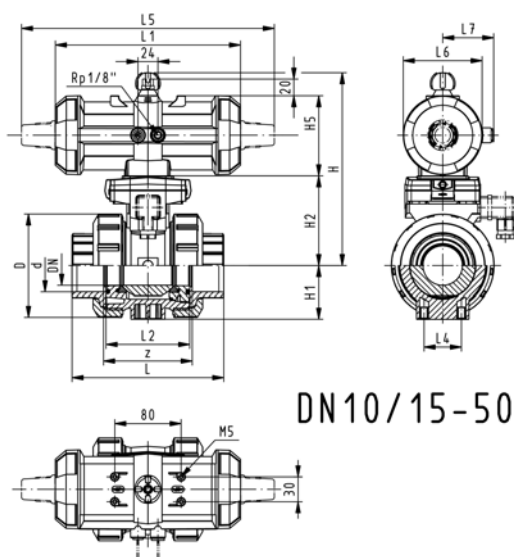


DN10/15 - 50

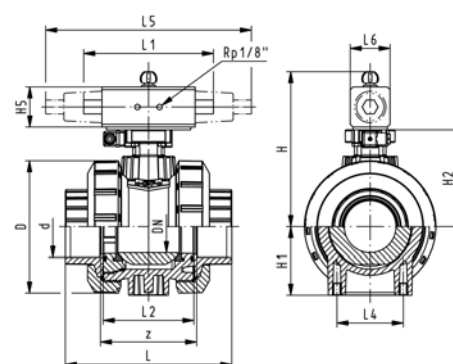


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 231 202	199 231 212
20	15	10	185	199 231 203	199 231 213
25	20	10	350	199 231 204	199 231 214
32	25	10	700	199 231 205	199 231 215
40	32	10	1000	199 231 206	199 231 216
50	40	10	1600	199 231 207	199 231 217
63	50	10	3100	199 231 208	199 231 218
75	65	10	5000	199 231 209	199 231 219
90	80	10	7000	199 231 210	199 231 220
110	100	10	11000	199 231 211	199 231 221

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	77	93	194	56	25	261	76	48	66
20	50	159	27	62	77	95	194	56	25	261	76	48	67
25	58	168	30	71	77	108	194	65	25	261	76	48	77
32	68	168	36	71	77	118	194	71	25	261	76	48	83
40	84	202	44	84	99	137	224	85	45	305	95	59	99
50	97	202	51	84	99	147	224	89	45	305	95	59	105
63	124	225	64	106	99	168	224	101	45	305	95	59	117
75	166	257	85	156	66	233	144	136	70		60		167
90	200	274	105	168	70	254	152	141	70		65		180
110	238	273	123	175	78	301	169	164	120		72		215



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

Ball valve type 231 DA (Double acting)

Without manual override

With socket fusion spigots metric



DN10/15 - 50



Model:

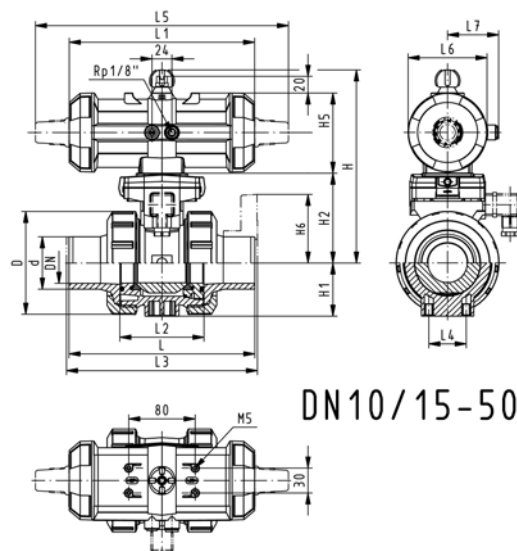
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90° <) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

Option:

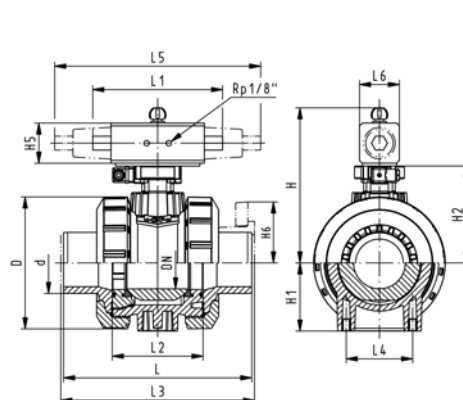
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	70	199 231 222	199 231 232
20	15	10	185	199 231 223	199 231 233
25	20	10	350	199 231 224	199 231 234
32	25	10	700	199 231 225	199 231 235
40	32	10	1000	199 231 226	199 231 236
50	40	10	1600	199 231 227	199 231 237
63	50	10	3100	199 231 228	199 231 238
75	65	10	5000	199 231 229	199 231 239
90	80	10	7000	199 231 230	199 231 240
110	100	10	11000	199 231 231	199 231 241

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	77	110	194	56	130	25	261	76	48
20	50	159	27	62	77	120	194	56	130	25	261	76	48
25	58	168	30	71	77	139	194	65	150	25	261	76	48
32	68	168	36	71	77	150	194	71	160	25	261	76	48
40	84	202	44	84	99	170	224	85	180	45	305	95	59
50	97	202	51	84	99	190	224	89	200	45	305	95	59
63	124	225	64	106	99	220	224	101	230	45	305	95	59
75	166	257	85	156	66	280	144	136	290	70		60	
90	200	274	105	168	70	296	152	141	310	70		65	
110	238	273	123	175	78	336	169	164	350	120		72	



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

Ball valve type 231 DA (Double acting)

Without manual override

With fixed flanges PP-H serrated metric



DN10/15 - 50

Model:

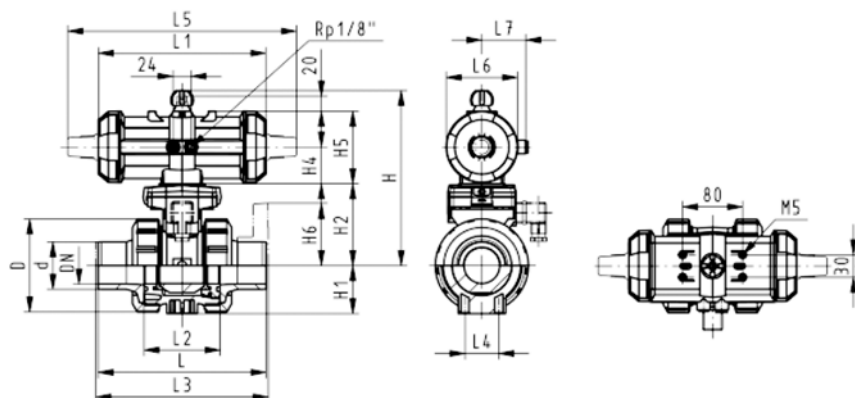
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Overall length according to EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	½	10	185	199 231 463	199 231 473
25	20	¾	10	350	199 231 464	199 231 474
32	25	1	10	700	199 231 465	199 231 475
40	32	1 ¼	10	1000	199 231 466	199 231 476
50	40	1 ½	10	1600	199 231 467	199 231 477
63	50	2	10	3100	199 231 468	199 231 478

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	40	77	48	120	194	56	130	25	261	76	48
25	58	168	30	71	40	77	53	140	194	65	150	25	261	76	48
32	68	168	36	71	40	77	58	150	194	71	160	25	261	76	48
40	84	202	44	84	51	99	70	170	224	85	180	45	305	95	59
50	97	202	51	84	51	99	75	190	224	89	200	45	305	95	59
63	124	225	64	106	51	99	83	220	224	101	230	45	305	95	59



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 DA (Double acting)

Without manual override

With backing flanges PP-st metric



Model:

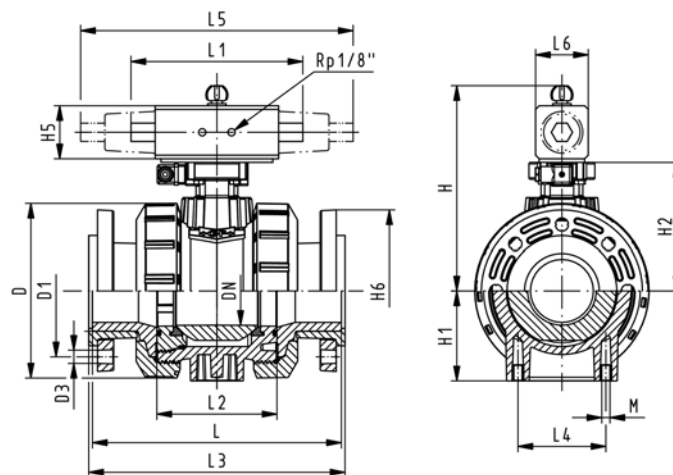
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code								
75	65	2 1/2	10	5000	199 231 369	199 231 379								
90	80	3	10	7000	199 231 370	199 231 380								
110	100	4	10	11000	199 231 371	199 231 381								

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L6 [mm]		
75	166	257	85	156	66	93	280	144	136	290	70	60		
90	200	274	105	168	70	100	296	152	141	310	70	65		
110	238	273	123	175	78	110	336	169	164	350	120	72		



PROGEF Standard metric

PROGEF Standard

Ball valve type 231 DA (Double acting)

Without manual override

With butt fusion spigots IR-Plus SDR11 metric

Model:

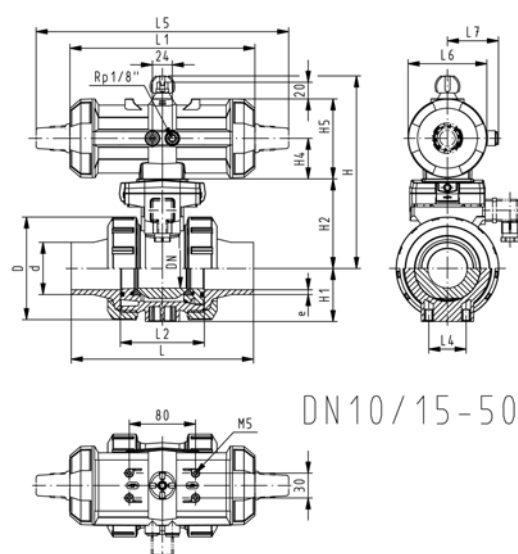
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

Option:

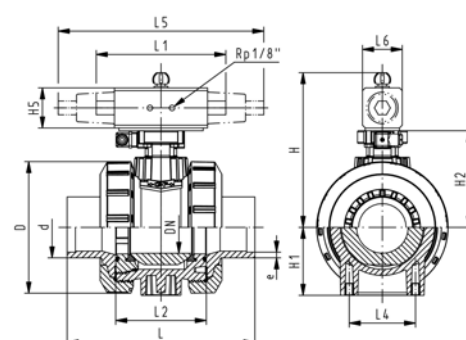
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	185	199 231 873	199 231 883
25	20	10	350	199 231 874	199 231 884
32	25	10	700	199 231 875	199 231 885
40	32	10	1000	199 231 876	199 231 886
50	40	10	1600	199 231 877	199 231 887
63	50	10	3100	199 231 878	199 231 888
75	65	10	5000	199 231 879	199 231 889
90	80	10	7000	199 231 880	199 231 890
110	100	10	11000	199 231 881	199 231 891

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L6 [mm]	e [mm]
20	50	159	27	62	77	130	194	56	130	25	76	1.9
25	58	168	30	71	77	143	194	65	150	25	76	2.3
32	68	168	36	71	77	150	194	71	160	25	76	3.0
40	84	202	44	84	99	171	224	85	180	45	95	3.7
50	97	202	51	84	99	191	224	89	200	45	95	4.6
63	124	225	64	106	99	220	224	101	230	45	95	5.8
75	166	257	85	156	66	266	144	136	290	70	60	8.2
90	200	274	105	168	70	264	152	141	310	70	65	9.9
110	238	273	123	175	78	301	169	164	350	120	72	12.0



DN10/15-50



DN65-100

PROGEF Standard metric

PROGEF Standard

Ball valve type 231 DA (Double acting)

Without manual override

With butt fusion spigots SDR17.6 metric



DN10/15 - 50



Model:

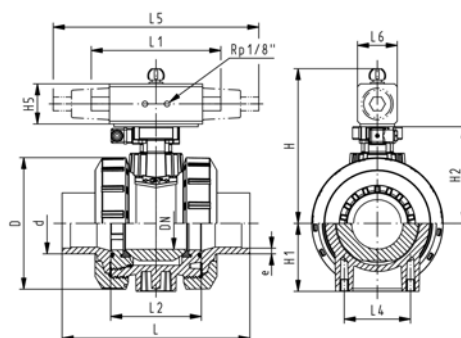
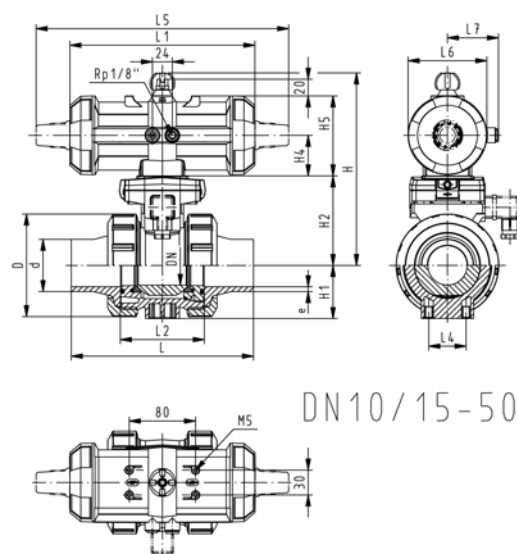
- Material: PP-H
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
75	65	10	5000	199 231 979	199 231 989
90	80	10	7000	199 231 980	199 231 990
110	100	10	11000	199 231 981	199 231 991

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L6 [mm]	e [mm]
75	166	257	85	156	66	266	144	136	290	70	60	4.6
90	200	274	105	168	70	264	152	141	310	70	65	5.5
110	238	273	123	175	78	301	169	164	350	120	72	6.7



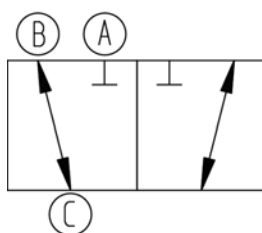
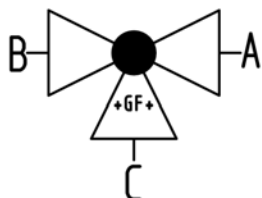
DN65-100

PROGEF Standard metric

PROGEF Standard 3-Way ball valve type 286 Horizontal/L-port Without manual override With fusion sockets metric

Model:

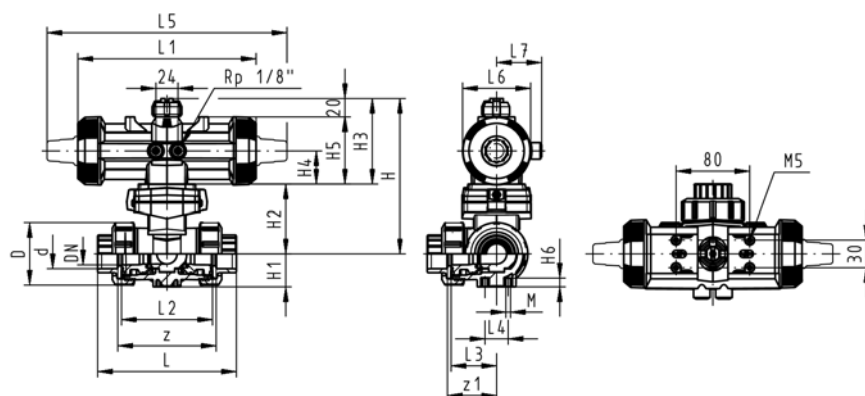
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 286 022	199 286 032
20	15	10	75	199 286 023	199 286 033
25	20	10	150	199 286 024	199 286 034
32	25	10	280	199 286 025	199 286 035
40	32	10	480	199 286 026	199 286 036
50	40	10	620	199 286 027	199 286 037
63	50	10	1230	199 286 028	199 286 038

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	110	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	129	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	146	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	170	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	193	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	244	224	176	88	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	82	41
20	48	6	82	41
25	48	6	97	49
32	48	6	110	55
40	59	8	132	66
50	59	8	151	76
63	59	8	188	94



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 286

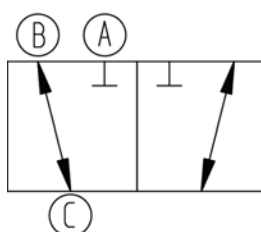
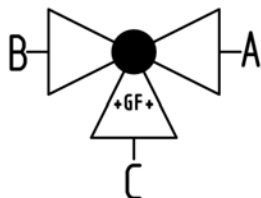
Horizontal/L-port

Without manual override

With threaded sockets reinforced Rp

Model:

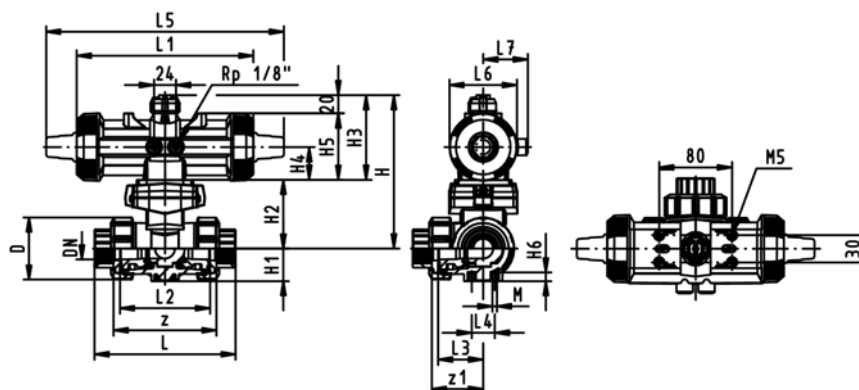
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	50	199 286 122	199 286 132
1/2	15	10	75	199 286 123	199 286 133
3/4	20	10	150	199 286 124	199 286 134
1	25	10	280	199 286 125	199 286 135
1 1/4	32	10	480	199 286 126	199 286 136
1 1/2	40	10	620	199 286 127	199 286 137
2	50	10	1230	199 286 128	199 286 138

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
3/8	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
1/2	50	159	28	62	97	40	77	8	114	194	72	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	85	43	25	261	76
1	68	168	36	71	97	40	77	8	154	194	98	49	25	261	76
1 1/4	84	203	45	84	119	51	99	9	180	224	118	59	45	305	95
1 1/2	97	203	51	84	119	51	99	9	203	224	135	68	45	305	95
2	124	225	65	106	119	51	99	9	258	224	176	88	45	305	95

Rp [inch]	L7 [mm]	M	z [mm]	z1 [mm]
3/8	48	6	86	43
1/2	48	6	84	42
3/4	48	6	99	50
1	48	6	112	56
1 1/4	59	8	132	66
1 1/2	59	8	153	77
2	59	8	196	98



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 286

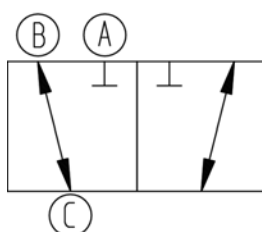
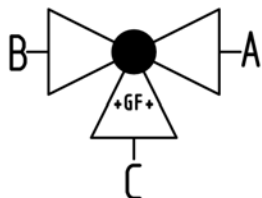
Horizontal/L-port

Without manual override

With socket fusion spigots metric

Model:

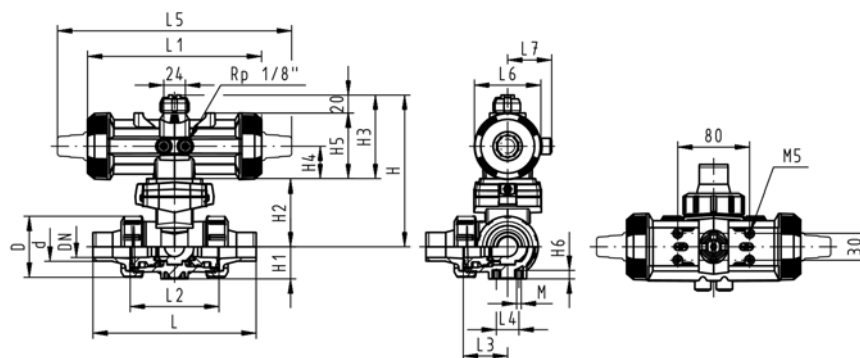
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 286 002	199 286 012
20	15	10	75	199 286 003	199 286 013
25	20	10	150	199 286 004	199 286 014
32	25	10	280	199 286 005	199 286 015
40	32	10	480	199 286 006	199 286 016
50	40	10	620	199 286 007	199 286 017
63	50	10	1230	199 286 008	199 286 018

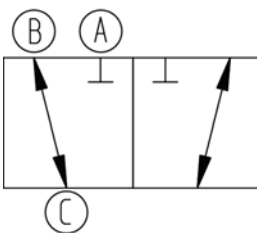
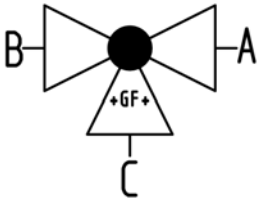
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	126	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	136	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	159	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PROGEF Standard metric

PROGEF Standard 3-Way ball valve type 286 Horizontal/L-port Without manual override With butt fusion spigots IR-Plus SDR11 metric



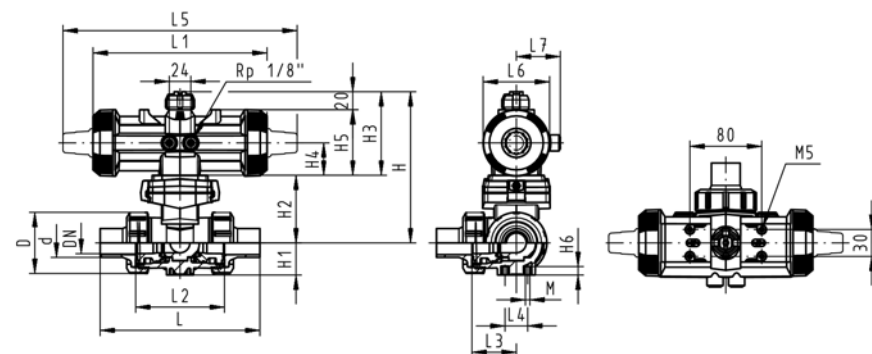
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90° <) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	75	199 286 083	199 286 093
25	20	10	150	199 286 084	199 286 094
32	25	10	280	199 286 085	199 286 095
40	32	10	480	199 286 086	199 286 096
50	40	10	620	199 286 087	199 286 097
63	50	10	1230	199 286 088	199 286 098

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	28	62	97	40	77	8	146	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	163	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 286

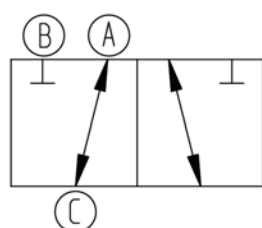
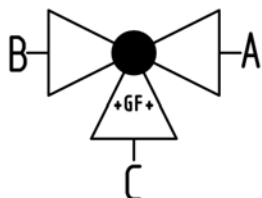
Horizontal/L-port DA (Double acting)

Without manual override

With fusion sockets metric

Model:

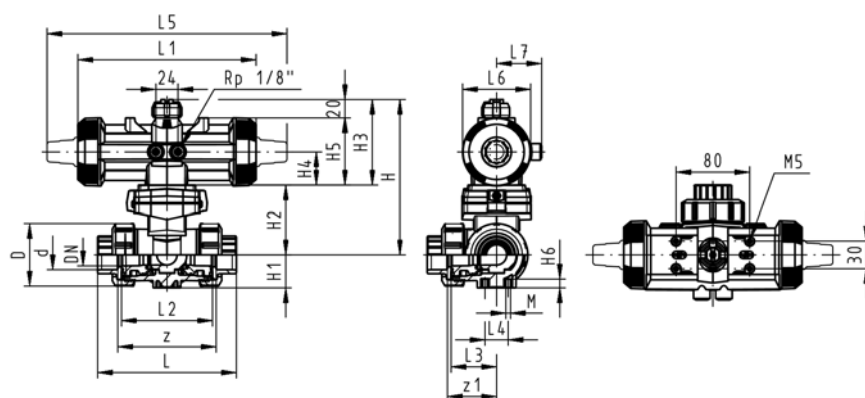
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 286 182	199 286 192
20	15	10	75	199 286 183	199 286 193
25	20	10	150	199 286 184	199 286 194
32	25	10	280	199 286 185	199 286 195
40	32	10	480	199 286 186	199 286 196
50	40	10	620	199 286 187	199 286 197
63	50	10	1230	199 286 188	199 286 198

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	110	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	129	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	146	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	170	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	193	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	244	224	176	88	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	82	41
20	48	6	82	41
25	48	6	97	49
32	48	6	110	55
40	59	8	132	66
50	59	8	151	76
63	59	8	188	94



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 286

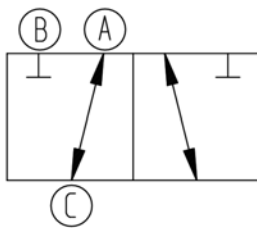
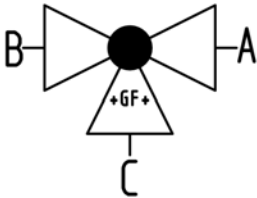
Horizontal/L-port DA (Double acting)

Without manual override

With threaded sockets reinforced Rp

Model:

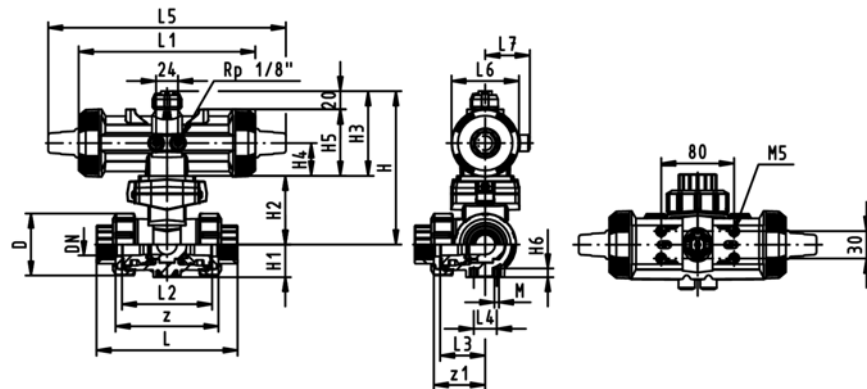
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	50	199 286 282	199 286 292
1/2	15	10	75	199 286 283	199 286 293
3/4	20	10	150	199 286 284	199 286 294
1	25	10	280	199 286 285	199 286 295
1 1/4	32	10	480	199 286 286	199 286 296
1 1/2	40	10	620	199 286 287	199 286 297
2	50	10	1230	199 286 288	199 286 298

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
3/8	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
1/2	50	159	28	62	97	40	77	8	114	194	72	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	85	43	25	261	76
1	68	168	36	71	97	40	77	8	154	194	98	49	25	261	76
1 1/4	84	203	45	84	119	51	99	9	180	224	118	59	45	305	95
1 1/2	97	203	51	84	119	51	99	9	203	224	135	68	45	305	95
2	124	225	65	106	119	51	99	9	258	224	176	88	45	305	95

Rp [inch]	L7 [mm]	M	z [mm]	z1 [mm]
3/8	48	6	86	43
1/2	48	6	84	42
3/4	48	6	99	50
1	48	6	112	56
1 1/4	59	8	132	66
1 1/2	59	8	153	77
2	59	8	196	98



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 286

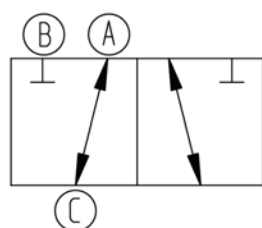
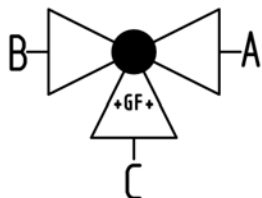
Horizontal/L-port DA (Double acting)

Without manual override

With socket fusion spigots metric

Model:

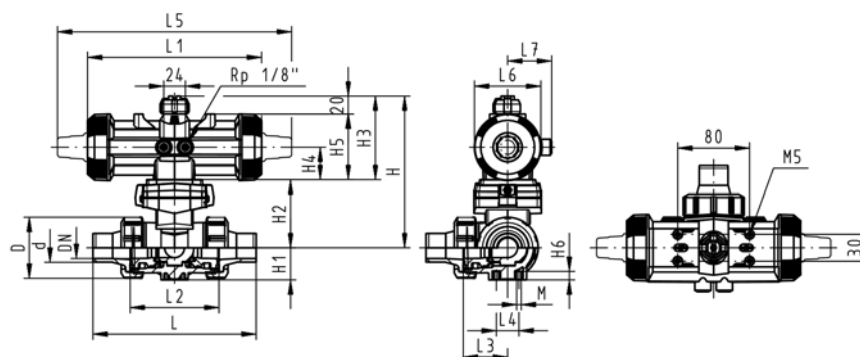
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	50	199 286 162	199 286 172
20	15	10	75	199 286 163	199 286 173
25	20	10	150	199 286 164	199 286 174
32	25	10	280	199 286 165	199 286 175
40	32	10	480	199 286 166	199 286 176
50	40	10	620	199 286 167	199 286 177
63	50	10	1230	199 286 168	199 286 178

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	126	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	136	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	159	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 286

Horizontal/L-port DA (Double acting)

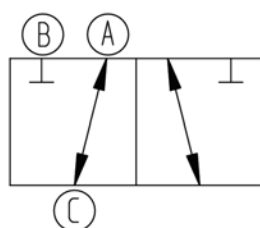
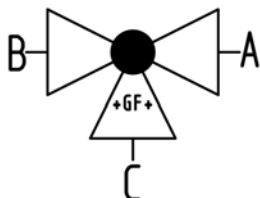
Without manual override

With butt fusion spigots

IR-Plus SDR11 metric

Model:

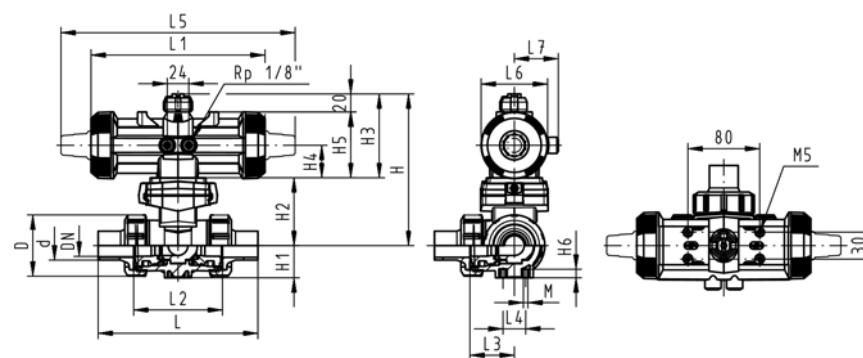
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	75	199 286 243	199 286 253
25	20	10	150	199 286 244	199 286 254
32	25	10	280	199 286 245	199 286 255
40	32	10	480	199 286 246	199 286 256
50	40	10	620	199 286 247	199 286 257
63	50	10	1230	199 286 248	199 286 258

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	28	62	97	40	77	8	146	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	163	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8

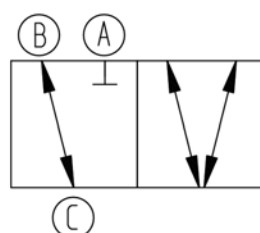
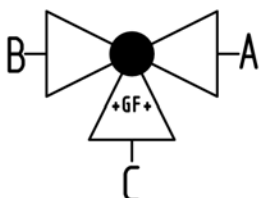


PROGEF Standard metric

PROGEF Standard 3-Way ball valve type 286 Horizontal/T-port Without manual override With fusion sockets metric

Model:

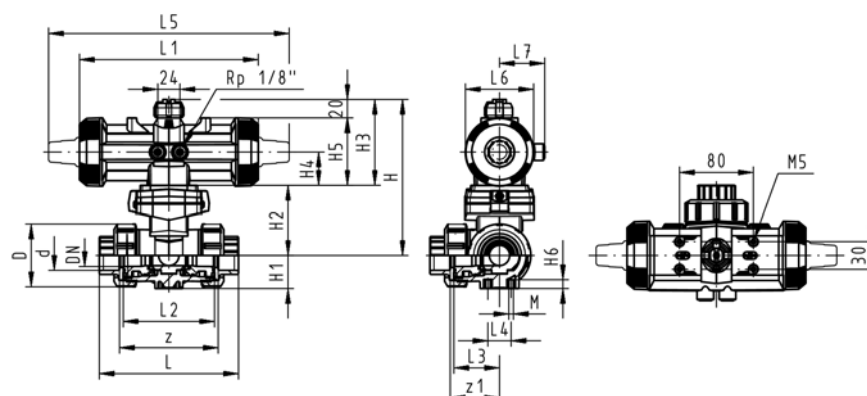
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 286 062	199 286 072
20	15	10	200	199 286 063	199 286 073
25	20	10	470	199 286 064	199 286 074
32	25	10	793	199 286 065	199 286 075
40	32	10	1290	199 286 066	199 286 076
50	40	10	1910	199 286 067	199 286 077
63	50	10	3100	199 286 068	199 286 078

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	110	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	129	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	146	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	170	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	193	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	244	224	176	88	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	82	41
20	48	6	82	41
25	48	6	97	49
32	48	6	110	55
40	59	8	132	66
50	59	8	151	76
63	59	8	188	94



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 286

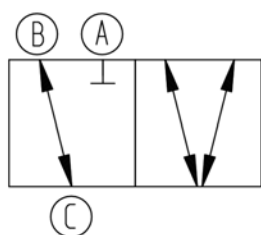
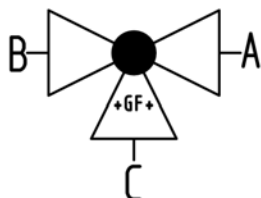
Horizontal/T-port

Without manual override

With threaded sockets reinforced Rp

Model:

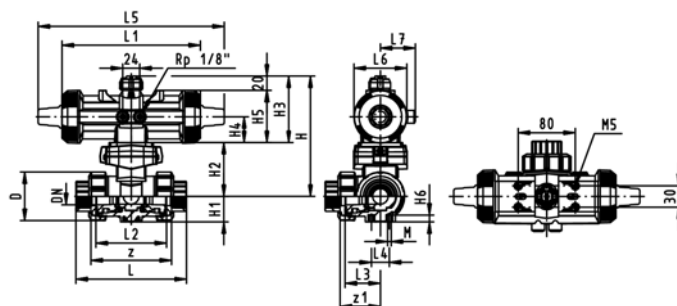
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



Rp [inch]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	140	199 286 142	199 286 152
1/2	15	10	200	199 286 143	199 286 153
3/4	20	10	470	199 286 144	199 286 154
1	25	10	793	199 286 145	199 286 155
1 1/4	32	10	1290	199 286 146	199 286 156
1 1/2	40	10	1910	199 286 147	199 286 157
2	50	10	3100	199 286 148	199 286 158

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
3/8	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
1/2	50	159	28	62	97	40	77	8	114	194	72	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	85	43	25	261	76
1	68	168	36	71	97	40	77	8	154	194	98	49	25	261	76
1 1/4	84	203	45	84	119	51	99	9	180	224	118	59	45	305	95
1 1/2	97	203	51	84	119	51	99	9	203	224	135	68	45	305	95
2	124	225	65	106	119	51	99	9	258	224	176	88	45	305	95

Rp [inch]	L7 [mm]	M	z [mm]	z1 [mm]
3/8	48	6	86	43
1/2	48	6	84	42
3/4	48	6	99	50
1	48	6	112	56
1 1/4	59	8	132	66
1 1/2	59	8	153	77
2	59	8	196	98



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 286

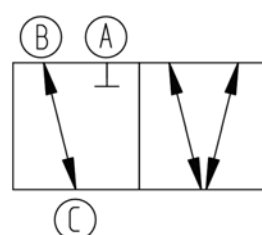
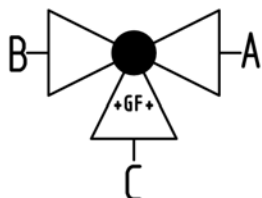
Horizontal/T-port

Without manual override

With socket fusion spigots metric

Model:

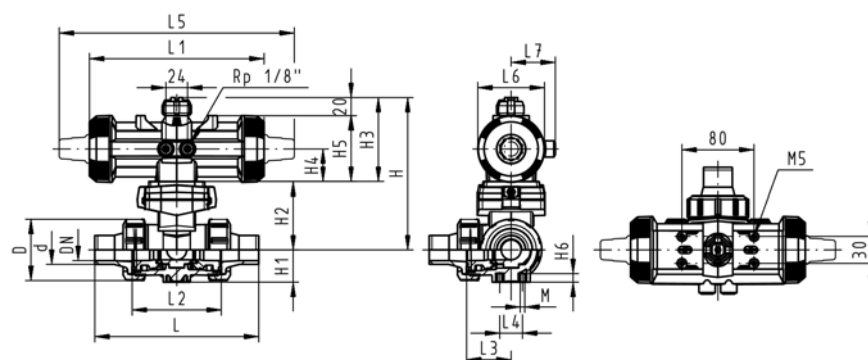
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 286 042	199 286 052
20	15	10	200	199 286 043	199 286 053
25	20	10	470	199 286 044	199 286 054
32	25	10	793	199 286 045	199 286 055
40	32	10	1290	199 286 046	199 286 056
50	40	10	1910	199 286 047	199 286 057
63	50	10	3100	199 286 048	199 286 058

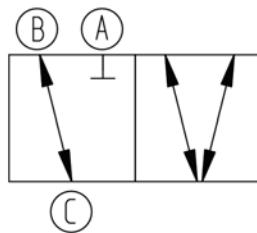
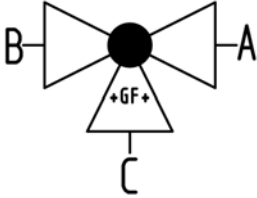
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	126	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	136	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	159	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PROGEF Standard metric

PROGEF Standard 3-Way ball valve type 286 Horizontal/T-port Without manual override With butt fusion spigots IR-Plus SDR11 metric



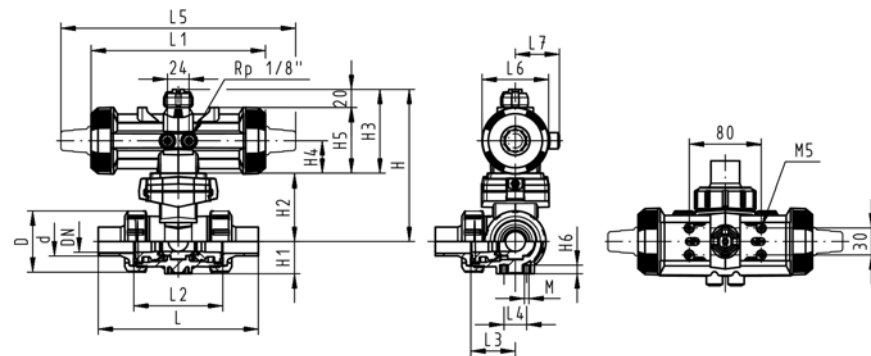
Model:

- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90° <) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	200	199 286 103	199 286 113
25	20	10	470	199 286 104	199 286 114
32	25	10	793	199 286 105	199 286 115
40	32	10	1290	199 286 106	199 286 116
50	40	10	1910	199 286 107	199 286 117
63	50	10	3100	199 286 108	199 286 118

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	28	62	97	40	77	8	146	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	163	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 286

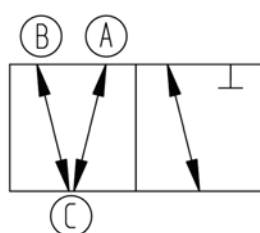
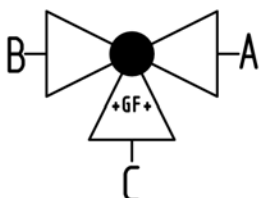
Horizontal/T-port DA (Double acting)

Without manual override

With fusion sockets metric

Model:

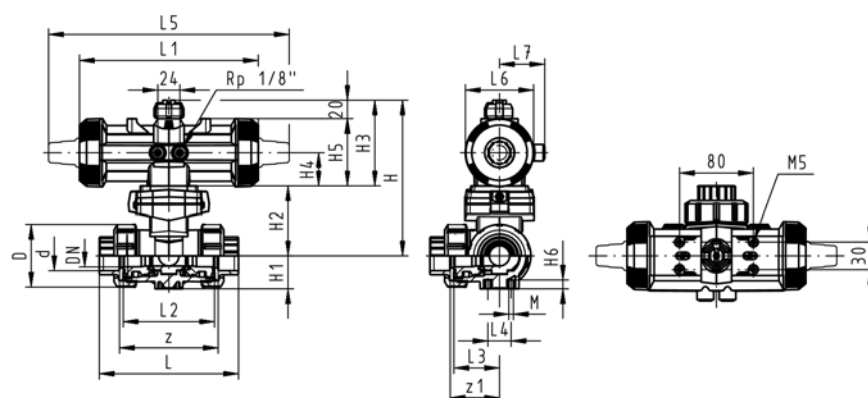
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 286 222	199 286 232
20	15	10	200	199 286 223	199 286 233
25	20	10	470	199 286 224	199 286 234
32	25	10	793	199 286 225	199 286 235
40	32	10	1290	199 286 226	199 286 236
50	40	10	1910	199 286 227	199 286 237
63	50	10	3100	199 286 228	199 286 238

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	110	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	129	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	146	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	170	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	193	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	244	224	176	88	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	82	41
20	48	6	82	41
25	48	6	97	49
32	48	6	110	55
40	59	8	132	66
50	59	8	151	76
63	59	8	188	94



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 286

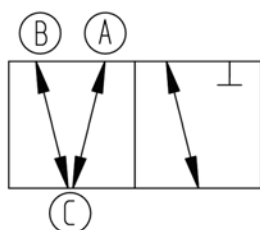
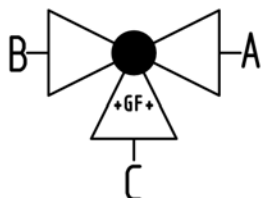
Horizontal/T-port DA (Double acting)

Without manual override

With threaded sockets reinforced Rp

Model:

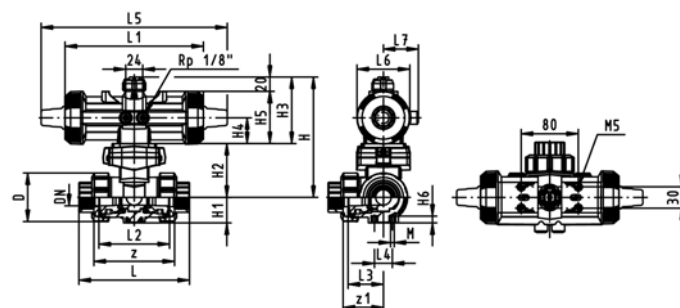
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



Rp [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
3/8	10	10	140	199 286 302	199 286 312
1/2	15	10	200	199 286 303	199 286 313
3/4	20	10	470	199 286 304	199 286 314
1	25	10	793	199 286 305	199 286 315
1 1/4	32	10	1290	199 286 306	199 286 316
1 1/2	40	10	1910	199 286 307	199 286 317
2	50	10	3100	199 286 308	199 286 318

Rp [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
3/8	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
1/2	50	159	28	62	97	40	77	8	114	194	72	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	85	43	25	261	76
1	68	168	36	71	97	40	77	8	154	194	98	49	25	261	76
1 1/4	84	203	45	84	119	51	99	9	180	224	118	59	45	305	95
1 1/2	97	203	51	84	119	51	99	9	203	224	135	68	45	305	95
2	124	225	65	106	119	51	99	9	258	224	176	88	45	305	95

Rp [inch]	L7 [mm]	M	z [mm]	z1 [mm]
3/8	48	6	86	43
1/2	48	6	84	42
3/4	48	6	99	50
1	48	6	112	56
1 1/4	59	8	132	66
1 1/2	59	8	153	77
2	59	8	196	98



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 286

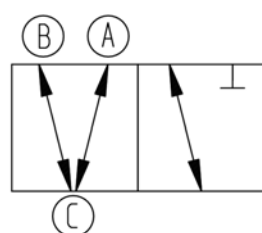
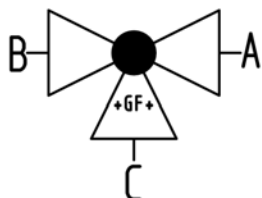
Horizontal/T-port DA (Double acting)

Without manual override

With socket fusion spigots metric

Model:

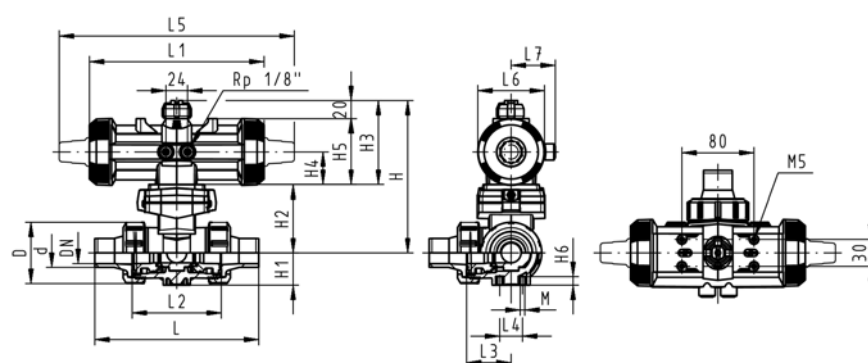
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
16	10	10	140	199 286 202	199 286 212
20	15	10	200	199 286 203	199 286 213
25	20	10	470	199 286 204	199 286 214
32	25	10	793	199 286 205	199 286 215
40	32	10	1290	199 286 206	199 286 216
50	40	10	1910	199 286 207	199 286 217
63	50	10	3100	199 286 208	199 286 218

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	126	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	136	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	159	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PROGEF Standard metric

PROGEF Standard

3-Way ball valve type 286

Horizontal/T-port DA (Double acting)

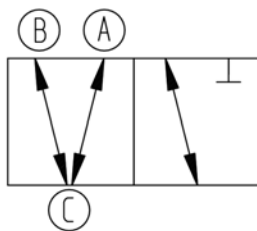
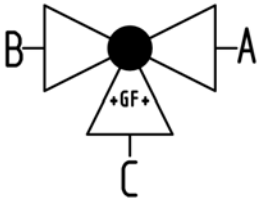
Without manual override

With butt fusion spigots

IR-Plus SDR11 metric

Model:

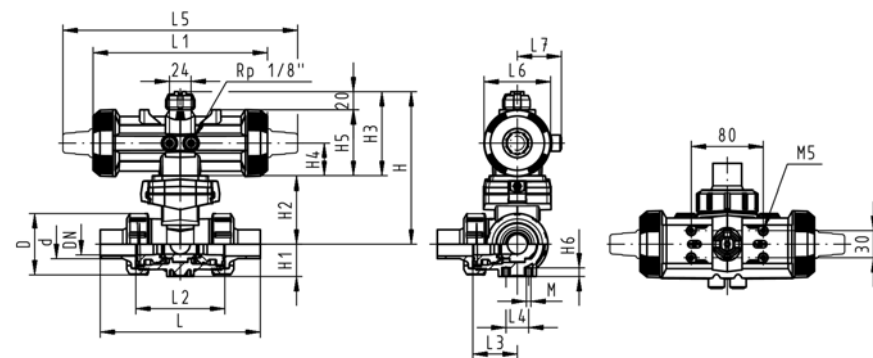
- Material: PP-H
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	10	200	199 286 263	199 286 273
25	20	10	470	199 286 264	199 286 274
32	25	10	793	199 286 265	199 286 275
40	32	10	1290	199 286 266	199 286 276
50	40	10	1910	199 286 267	199 286 277
63	50	10	3100	199 286 268	199 286 278

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	28	62	97	40	77	8	146	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	163	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



PROGEF Standard metric

Butterfly valves electric

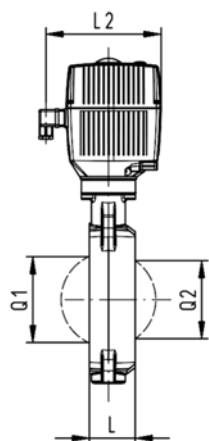
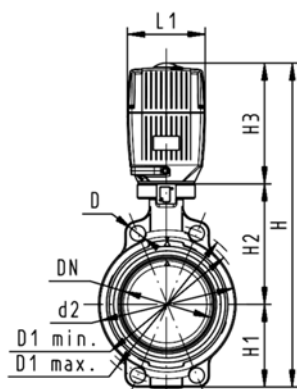
PROGEF Standard

Butterfly valve type 140 100-230V

Without manual override

Model:

- 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
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- 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
- For DN350-DN600 electric actuator from Valpes is equipped, various options available



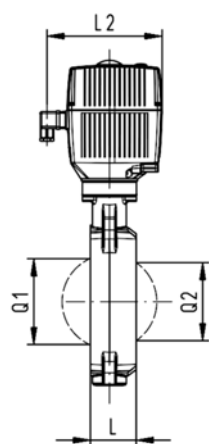
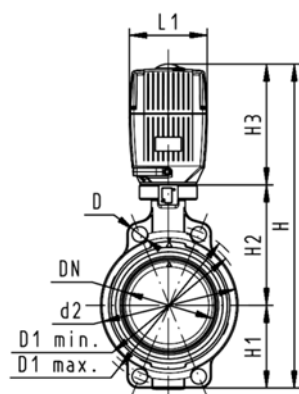
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 362	199 140 382
75	65	2 ½	10	2200	199 140 363	199 140 383
90	80	3	10	3000	199 140 364	199 140 384
110	100	4	10	6500	199 140 365	199 140 385
140	125	5	10	11500	199 140 366	199 140 386
160	150	6	10	16600	199 140 367	199 140 387
225	200	8	10	39600	199 140 368	199 140 388
280	250	10	6	55200	199 140 369	199 140 389
315	300	12	4	80000	199 140 370	199 140 390
* 355	350	14	6	900000	199 140 371	199 140 391
* 400	400	16	6	115000	199 140 372	199 140 392
* 450	450	18	5	155000	199 140 373	199 140 393
* 500	500	20	4	204000	199 140 374	199 140 394
* 630	600	24	4	265000	199 140 375	199 140 395

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180
* 355	VS-300	29	445.0	477.0	535	936	268	410	258	129	209	275
* 400	VT-600	29	510.0	540.0	595	1084	300	435	349	169	228	468
* 450	VT-600	32	565.0	578.0	635	1189	320	520	349	179	228	468
* 500	VT-600	32	620.0	635.0	700	1249	350	550	349	190	228	468
* 630	VT-1000	35	725.0	750.0	813	1379	420	610	349	209	228	468

d [mm]	Q1 [mm]	Q2 [mm]
63	40	
75	54	35
90	67	50
110	88	74
140	113	97
160	139	123
225	178	169

table continued next page

PROGEF Standard metric



d [mm]	Q1 [mm]	Q2 [mm]	
280	210	207	
315	256	253	
* 355	325	305	
* 400	353	350	
* 450	393	390	
* 500	444	440	
* 630	530	527	

PROGEF Standard metric

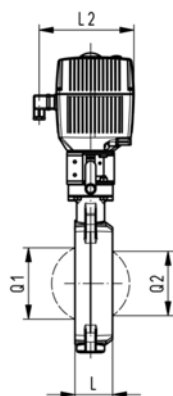
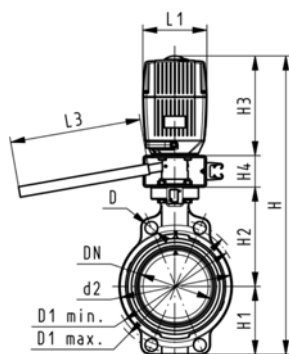
PROGEF Standard

Butterfly valve type 140 100-230V

With manual override

Model:

- 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
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- Material: PP-H
- Overall length according to EN 558, ISO 5752



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 322	199 140 342
75	65	2 ½	10	2200	199 140 323	199 140 343
90	80	3	10	3000	199 140 324	199 140 344
110	100	4	10	6500	199 140 325	199 140 345
140	125	5	10	11500	199 140 326	199 140 346
160	150	6	10	16600	199 140 327	199 140 347
225	200	8	10	39600	199 140 328	199 140 348

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

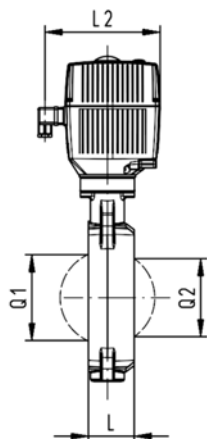
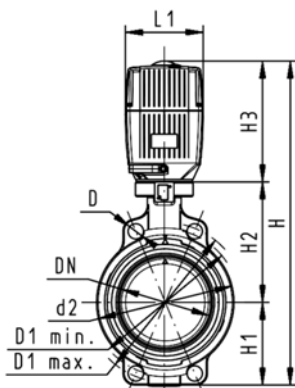
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

PROGEF Standard metric

PROGEF Standard Butterfly valve type 140 24V Without manual override

Model:

- Material: PP-H
- 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
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- The dimension DN300 on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 442	199 140 462
75	65	2 ½	10	2200	199 140 443	199 140 463
90	80	3	10	3000	199 140 444	199 140 464
110	100	4	10	6500	199 140 445	199 140 465
140	125	5	10	11500	199 140 446	199 140 466
160	150	6	10	16600	199 140 447	199 140 467
225	200	8	10	39600	199 140 448	199 140 468
280	250	10	6	55200	199 140 449	199 140 469
315	300	12	4	80000	199 140 450	199 140 470

d [mm]	Actuator unit type	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]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180	210
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180	256

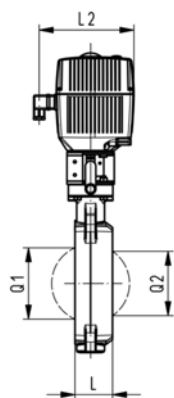
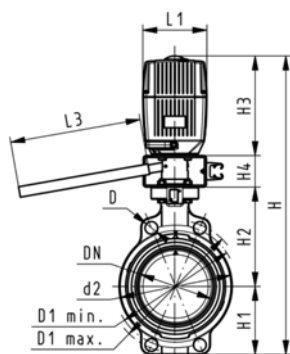
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

PROGEF Standard metric

PROGEF Standard Butterfly valve type 140 24V With manual override

Model:

- Material: PP-H
- 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
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 402	199 140 422
75	65	2 ½	10	2200	199 140 403	199 140 423
90	80	3	10	3000	199 140 404	199 140 424
110	100	4	10	6500	199 140 405	199 140 425
140	125	5	10	11500	199 140 406	199 140 426
160	150	6	10	16600	199 140 407	199 140 427
225	200	8	10	39600	199 140 408	199 140 428

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

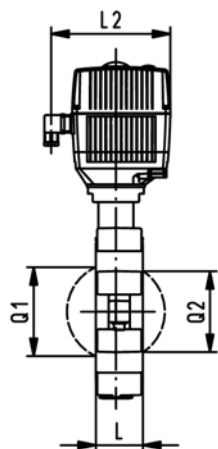
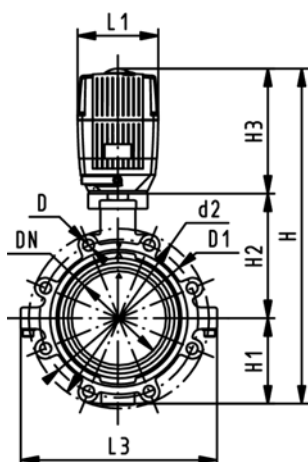
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

PROGEF Standard metric

PROGEF Standard

Lugstyle butterfly valve type 141 100-230V

Without manual override



Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 141 362	199 141 382
75	65	2 ½	10	2200	199 141 363	199 141 383
90	80	3	10	3000	199 141 364	199 141 384
110	100	4	10	6500	199 141 365	199 141 385
140	125	5	10	11500	199 141 366	199 141 386
160	150	6	10	16600	199 141 367	199 141 387
225	200	8	10	39600	199 141 368	199 141 388

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	EA-31	M16	125	150	399	77	134	188	45	122	180	150	40
75	EA-31	M16	145	170	411	83	140	188	46	122	180	160	54
90	EA-31	M16	160	184	423	89	146	188	49	122	180	205	67
110	EA-31	M16	180	216	459	104	167	188	56	122	180	244	88
140	EA-31	M16	210	246	486	117	181	188	64	122	180	272	113
160	EA-31	M20	240	273	507	130	189	188	72	122	180	297	139
225	EA-42	M20	295	334	576	158	210	208	73	122	180	360	178

d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

PROGEF Standard metric

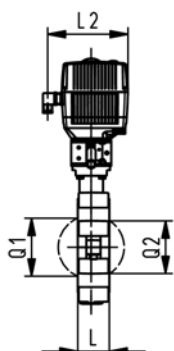
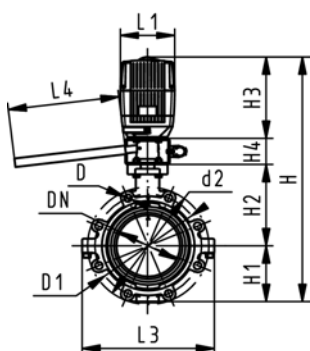
PROGEF Standard

Lugstyle butterfly valve type 141 100-230V

With manual override

Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 141 322	199 141 342
75	65	2 ½	10	2200	199 141 323	199 141 343
90	80	3	10	3000	199 141 324	199 141 344
110	100	4	10	6500	199 141 325	199 141 345
140	125	5	10	11500	199 141 326	199 141 346
160	150	6	10	16600	199 141 327	199 141 347
225	200	8	10	39600	199 141 328	199 141 348

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
63	EA-31	M16	125	150	459	77	134	188	60	45	122	180	150
75	EA-31	M16	145	170	471	83	140	188	60	46	122	180	160
90	EA-31	M16	160	184	483	89	146	188	60	49	122	180	205
110	EA-31	M16	180	216	519	104	167	188	60	56	122	180	244
140	EA-31	M16	210	246	546	117	181	188	60	64	122	180	272
160	EA-31	M20	240	273	567	130	189	188	60	72	122	180	297
225	EA-42	M20	295	334	636	158	210	208	60	73	122	180	360

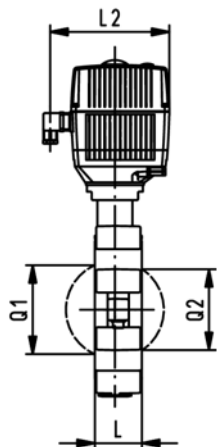
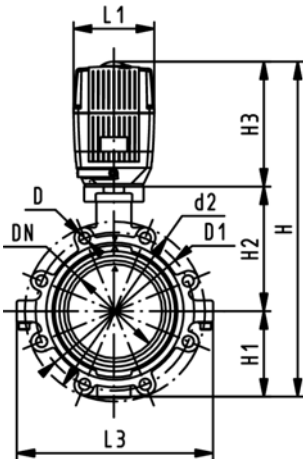
d [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]
63	200	40	
75	200	54	35
90	200	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

PROGEF Standard metric

PROGEF Standard

Lugstyle butterfly valve type 141 24V

Without manual override



Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 141 442	199 141 462
75	65	2 ½	10	2200	199 141 443	199 141 463
90	80	3	10	3000	199 141 444	199 141 464
110	100	4	10	6500	199 141 445	199 141 465
140	125	5	10	11500	199 141 446	199 141 466
160	150	6	10	16600	199 141 447	199 141 467
225	200	8	10	39600	199 141 448	199 141 468

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	EA-31	M16	125	150	399	77	134	188	45	122	180	150	40
75	EA-31	M16	145	170	411	83	140	188	46	122	180	160	54
90	EA-31	M16	160	184	423	89	146	188	49	122	180	205	67
110	EA-31	M16	180	216	459	104	167	188	56	122	180	244	88
140	EA-31	M16	210	246	486	117	181	188	64	122	180	272	113
160	EA-31	M20	240	273	507	130	189	188	72	122	180	297	139
225	EA-42	M20	295	334	576	158	210	208	73	122	180	360	178

d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

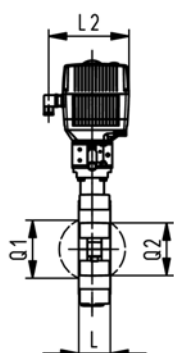
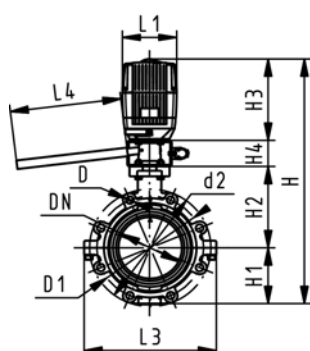
PROGEF Standard metric

PROGEF Standard

Lugstyle butterfly valve type 141 24V With manual override

Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 141 402	199 141 422
75	65	2 1/2	10	2200	199 141 403	199 141 423
90	80	3	10	3000	199 141 404	199 141 424
110	100	4	10	6500	199 141 405	199 141 425
140	125	5	10	11500	199 141 406	199 141 426
160	150	6	10	16600	199 141 407	199 141 427
225	200	8	10	39600	199 141 408	199 141 428

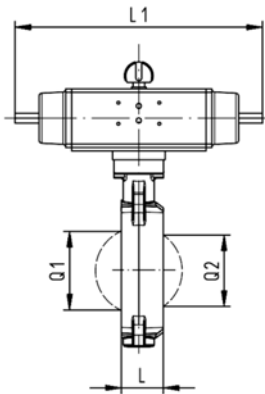
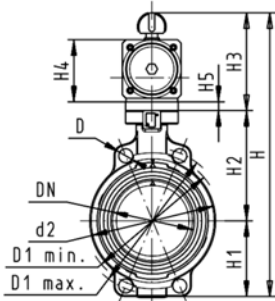
d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
63	EA-31	M16	125	150	459	77	134	188	60	45	122	180	150
75	EA-31	M16	145	170	471	83	140	188	60	46	122	180	160
90	EA-31	M16	160	184	483	89	146	188	60	49	122	180	205
110	EA-31	M16	180	216	519	104	167	188	60	56	122	180	244
140	EA-31	M16	210	246	546	117	181	188	60	64	122	180	272
160	EA-31	M20	240	273	567	130	189	188	60	72	122	180	297
225	EA-42	M20	295	334	636	158	210	208	60	73	122	180	360

d [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]
63	200	40	
75	200	54	35
90	200	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

PROGEF Standard metric

Butterfly valves pneumatic

PROGEF Standard Butterfly valve type 240 FC (Fail safe to close) Without manual override



Model:

- Material: PP-H, DN350-DN600 material PP-R
- For DN350-DN600 pneumatic actuator supplied by Revac
- 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
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Control range 90°<

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 282	199 240 302
75	65	2 ½	10	2200	199 240 283	199 240 303
90	80	3	10	3000	199 240 284	199 240 304
110	100	4	10	6500	199 240 285	199 240 305
140	125	5	10	11500	199 240 286	199 240 306
160	150	6	10	16600	199 240 287	199 240 307
225	200	8	10	39600	199 240 288	199 240 308
280	250	10	8	55200	199 240 289	199 240 309
315	300	12	8	80000	199 240 290	199 240 310

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FC	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FC	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FC	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FC	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FC	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FC	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FC	23	290.0	295.0	267	529	158	210	161	118		73	452
280	PA-65 FC	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FC	25	400.0	432.0	379	866	228	285	196	157		113	663

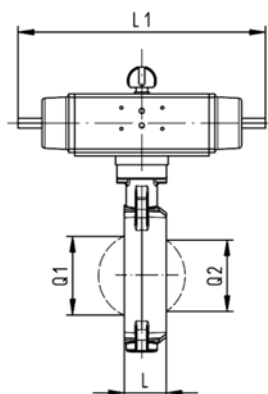
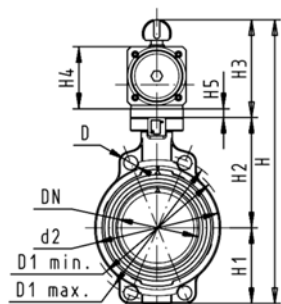
d [mm]	Q1 [mm]	Q2 [mm]
63	40	
75	54	35
90	67	50
110	88	74
140	113	97
160	139	123
225	178	169
280	210	207
315	256	253

PROGEF Standard metric

PROGEF Standard Butterfly valve type 240 FO (Fail safe to open) Without manual override

Model:

- Material: PP-H
- 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
- Overall length according to EN 558, ISO 5752
- Control range 90°<



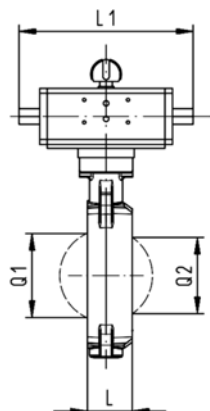
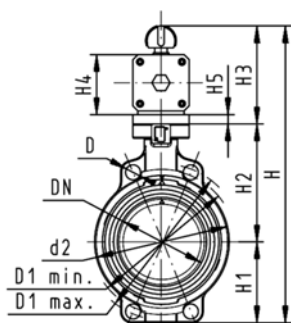
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 322	199 240 342
75	65	2 ½	10	2200	199 240 323	199 240 343
90	80	3	10	3000	199 240 324	199 240 344
110	100	4	10	6500	199 240 325	199 240 345
140	125	5	10	11500	199 240 326	199 240 346
160	150	6	10	16600	199 240 327	199 240 347
225	200	8	10	39600	199 240 328	199 240 348
280	250	10	8	55200	199 240 329	199 240 349
315	300	12	8	80000	199 240 330	199 240 350

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FO	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FO	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FO	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FO	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FO	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FO	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FO	23	290.0	295.0	267	529	158	210	161	118		73	452
280	PA-70 FO	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FO	25	400.0	432.0	379	866	228	285	196	157		113	663

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169
280	137	210	207
315	145	256	253

PROGEF Standard metric

PROGEF Standard Butterfly valve type 240 DA (Double acting) Without manual override



Model:

- Material: PP-H, DN350-DN600 material PP-R
- For DN350-DN600 pneumatic actuator supplied by Revac
- 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
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Control range 90°<

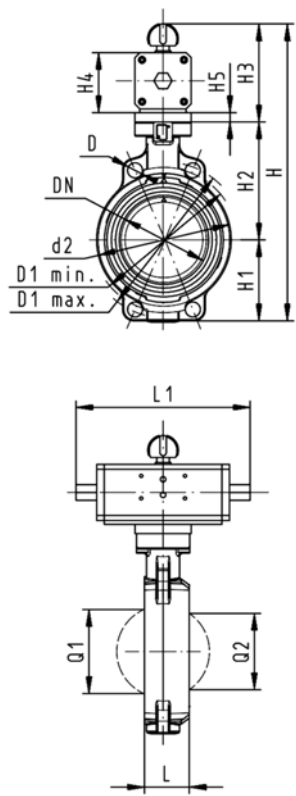
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 362	199 240 382
75	65	2 ½	10	2200	199 240 363	199 240 383
90	80	3	10	3000	199 240 364	199 240 384
110	100	4	10	6500	199 240 365	199 240 385
140	125	5	10	11500	199 240 366	199 240 386
160	150	6	10	16600	199 240 367	199 240 387
225	200	8	10	39600	199 240 368	199 240 388
280	250	10	8	55200	199 240 369	199 240 389
315	300	12	8	80000	199 240 370	199 240 390
* 355	350	14	6	90000	199 240 371	199 240 391
* 400	400	16	6	115000	199 240 372	199 240 392
* 450	450	18	5	155000	199 240 373	199 240 393
* 500	500	20	4	204000	199 240 374	199 240 394
* 630	600	24	4	265000	199 240 375	199 240 395

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-35 DA	19	120.0	125.0	104	317	77	134	107	60	15	45	177
75	PA-35 DA	19	139.7	145.0	115	330	83	140	107	60	15	46	177
90	PA-40 DA	19	150.0	160.0	131	348	89	146	113	66	15	49	190
110	PA-45 DA	19	175.0	190.5	161	372	104	167	102	71		56	235
140	PA-45 DA	23	210.0	215.9	187	408	117	181	111	78		64	235
160	PA-55 DA	24	241.3	241.3	215	448	130	189	129	86		72	279
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279
280	PA-65 DA	25	353.0	362.0	329	748	205	264	161	118		113	350
315	PA-70 DA	25	400.0	432.0	379	816	228	285	173	130		113	381
* 355	AP 5	29	445.0	477.0	535	863	268	410	185	155	27	129	360
* 400	AP 5.5	29	510.0	540.0	595	941	300	435	206	176	27	169	380
* 450	AP 5.5	32	565.0	578.0	635	1046	320	520	206	176	36	179	380
* 500	AP 6	32	620.0	635.0	700	1130	350	550	230	200	36	190	462
* 630	AP8	35	725.0	750.0	813	1330	420	610	300	250	36	209	530

d [mm]	Q1 [mm]	Q2 [mm]
63	40	
75	54	35
90	67	50
110	88	74
140	113	97
160	139	123
225	178	169
280	210	207
315	256	253
* 355	325	305
* 400	353	350

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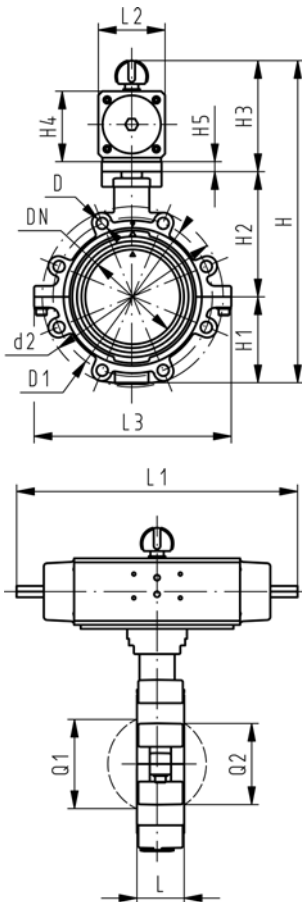
PROGEF Standard metric



d [mm]	Q1 [mm]	Q2 [mm]	
* 450	393	390	
* 500	444	440	
* 630	530	527	

PROGEF Standard metric

PROGEF Standard Lugstyle butterfly valve type 241 FC (Fail safe to close) Without manual override



Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 241 282	199 241 302
75	65	2 ½	10	2200	199 241 283	199 241 303
90	80	3	10	3000	199 241 284	199 241 304
110	100	4	10	6500	199 241 285	199 241 305
140	125	5	10	11500	199 241 286	199 241 306
160	150	6	10	16600	199 241 287	199 241 307
225	200	8	10	39600	199 241 288	199 241 308

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-30 FC	M16	125	150	328	77	134	117	70	15	45	276	65
75	PA-30 FC	M16	145	170	340	83	140	117	70	15	46	276	65
90	PA-35 FC	M16	160	184	361	89	146	126	78	15	49	326	72
110	PA-40 FC	M16	180	216	400	104	167	129	86		56	370	80
140	PA-45 FC	M16	210	246	437	117	181	139	96		64	411	90
160	PA-50 FC	M20	240	273	468	130	189	149	106		72	423	100
225	PA-55 FC	M20	295	334	529	158	210	161	118		73	452	112

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	40	
75	160	54	35
90	205	67	50
110	244	88	74
140	272	113	97
160	297	139	123
225	360	178	169

PROGEF Standard metric

PROGEF Standard

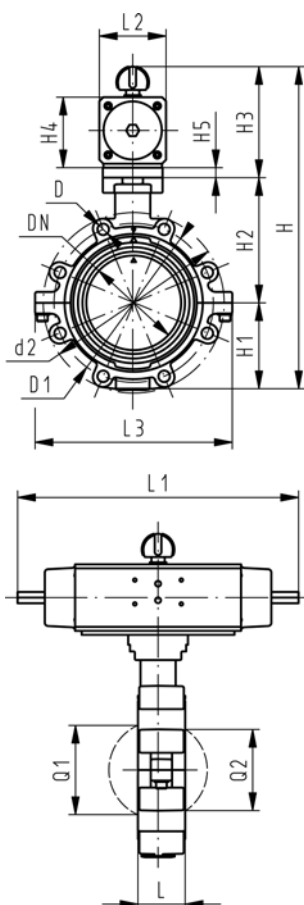
Lugstyle butterfly valve type 241

FO (Fail safe to open)

Without manual override

Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<



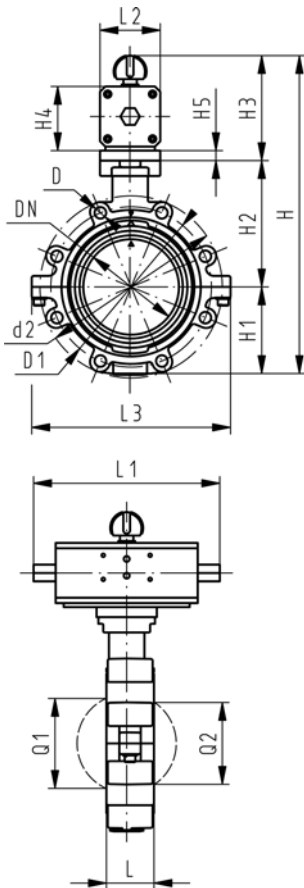
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
63	50	2	10	1470	199 241 322	199 241 342	
75	65	2 ½	10	2200	199 241 323	199 241 343	
90	80	3	10	3000	199 241 324	199 241 344	
110	100	4	10	6500	199 241 325	199 241 345	
140	125	5	10	11500	199 241 326	199 241 346	
160	150	6	10	16600	199 241 327	199 241 347	
225	200	8	10	39600	199 241 328	199 241 348	

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-30 FO	M16	125	150	328	77	134	117	70	15	45	276	65
75	PA-30 FO	M16	145	170	340	83	140	117	70	15	46	276	65
90	PA-35 FO	M16	160	184	361	89	146	126	78	15	49	326	72
110	PA-40 FO	M16	180	216	400	104	167	129	86		56	370	80
140	PA-45 FO	M16	210	246	437	117	181	139	96		64	411	90
160	PA-50 FO	M20	240	273	468	130	189	149	106		72	423	100
225	PA-55 FO	M20	295	334	529	158	210	161	118		73	452	112

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]	
63	150	40		
75	160	54	35	
90	205	67	50	
110	244	88	74	
140	272	113	97	
160	297	139	123	
225	360	178	169	

PROGEF Standard metric

PROGEF Standard Lugstyle butterfly valve type 241 DA (Double acting) Without manual override



Model:

- Material: PP-H
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 241 362	199 241 382
75	65	2 ½	10	2200	199 241 363	199 241 383
90	80	3	10	3000	199 241 364	199 241 384
110	100	4	10	6500	199 241 365	199 241 385
140	125	5	10	11500	199 241 366	199 241 386
160	150	6	10	16600	199 241 367	199 241 387
225	200	8	10	39600	199 241 368	199 241 388

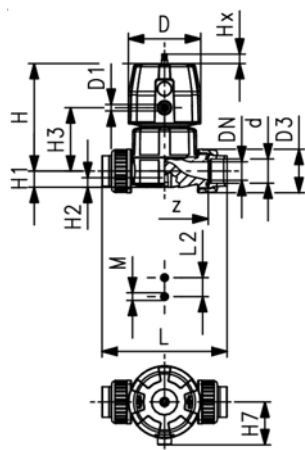
d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	PA-35 DA	M16	125	150	318	77	134	107	60	15	45	177	55
75	PA-35 DA	M16	145	170	330	83	140	107	60	15	46	177	55
90	PA-40 DA	M16	160	184	348	89	146	113	66	15	49	190	60
110	PA-45 DA	M16	180	216	373	104	167	102	71		56	235	65
140	PA-45 DA	M16	210	246	409	117	181	111	78		64	235	72
160	PA-55 DA	M20	240	273	448	130	189	129	86		72	279	80
225	PA-55 DA	M20	295	334	507	158	210	139	96		73	279	90

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	150	40	
75	160	54	35
90	205	67	50
110	244	88	74
140	272	113	97
160	297	139	123
225	360	178	169

PROGEF Standard metric

Diaphragm valves pneumatic

New generation



PROGEF Standard

Diaphragm valve DIASTAR Six

FC (Fail safe to close)

Unions with fusion sockets metric

Model:

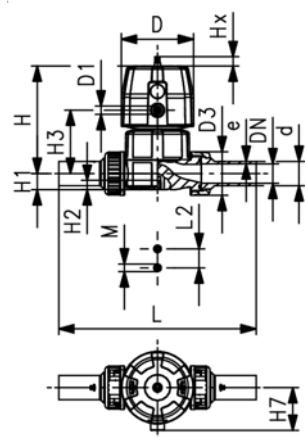
- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
20	15	6	125	167 614 012
25	20	6	271	167 614 013
32	25	6	481	167 614 014
40	32	6	759	167 614 015
50	40	6	960	167 614 016
63	50	6	1181	167 614 017

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	43	M6	100	7
25	96	1/8	150	25	132	18	12	73	57	M6	118	10
32	96	1/8	162	25	143	22	12	84	57	M6	126	13
40	120	1/8	184	45	173	26	15	99	69	M8	144	14
50	120	1/8	210	45	193	32	15	119	69	M8	164	16
63	120	1/8	248	45	205	39	15	132	69	M8	194	16



PROGEF Standard

Diaphragm valve DIASTAR Six

FC (Fail safe to close)

Unions with butt fusion spigots SDR11 metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

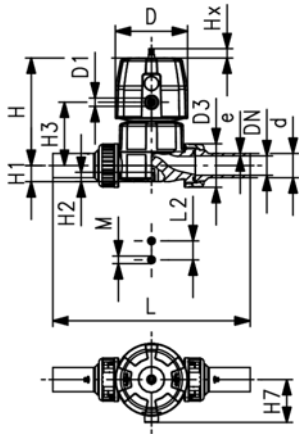
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
20	15	6	125	167 614 112	800 047 261
25	20	6	271	167 614 113	800 047 262
32	25	6	481	167 614 114	800 047 263
40	32	6	759	167 614 115	800 047 259
50	40	6	960	167 614 116	800 047 264
63	50	6	1181	167 614 117	800 047 265

table continued next page

PROGEF Standard metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	196	25	101	14	12	60	43	M6	7	1.9	
25	96	1/8	221	25	132	18	12	73	57	M6	10	2.3	
32	96	1/8	234	25	143	22	12	84	57	M6	13	2.9	
40	120	1/8	260	45	173	26	15	99	69	M8	14	3.7	
50	120	1/8	284	45	193	32	15	119	69	M8	16	4.6	
63	120	1/8	321	45	205	39	15	132	69	M8	16	5.8	



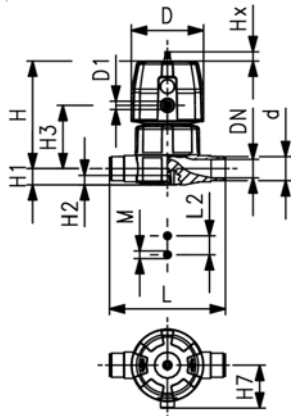
PROGEF Standard Diaphragm valve DIASTAR Six FC (Fail safe to close) With socket fusion spigots metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	
20	15	6	125	167 615 012	
25	20	6	271	167 615 013	
32	25	6	481	167 615 014	
40	32	6	759	167 615 015	
50	40	6	960	167 615 016	
63	50	6	1181	167 615 017	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	124	25	101	14	12	60	43	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	57	M6	10	2.3	
32	96	1/8	154	25	143	22	12	84	57	M6	13	2.9	
40	120	1/8	174	45	173	26	15	99	69	M8	14	3.7	
50	120	1/8	194	45	193	32	15	119	69	M8	16	4.6	
63	120	1/8	224	45	205	39	15	132	69	M8	16	5.8	

PROGEF Standard metric

PROGEF Standard Diaphragm valve DIASTAR Six FC (Fail safe to close) With butt fusion spigots SDR11 metric

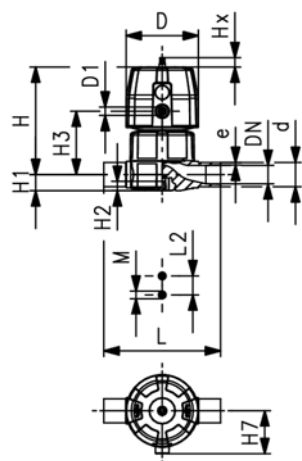


Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
20	15	6	125	167 615 112
25	20	6	271	167 615 113
32	25	6	481	167 615 114
40	32	6	759	167 615 115
50	40	6	960	167 615 116
63	50	6	1181	167 615 117

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	124	25	101	14	12	60	43	M6	7	1.9
25	96	1/8	144	25	132	18	12	73	57	M6	10	2.3
32	96	1/8	154	25	143	22	12	84	57	M6	13	2.9
40	120	1/8	174	45	173	26	15	99	69	M8	14	3.7
50	120	1/8	194	45	193	32	15	119	69	M8	16	4.6
63	120	1/8	224	45	205	39	15	132	69	M8	16	5.8



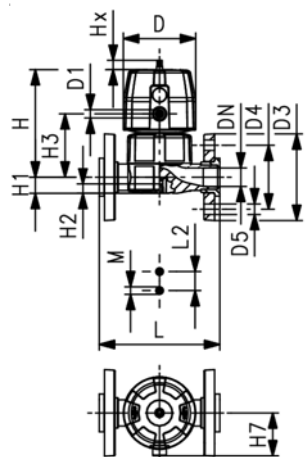
PROGEF Standard Diaphragm valve DIASTAR Six FC (Fail safe to close) With backing flanges PP-V metric/BS

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

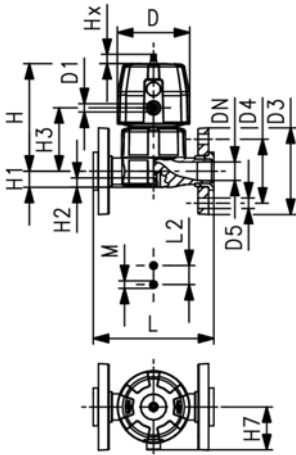
- Individual configuration of the valve (see diagram)



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
20	15	6	125	167 617 112
25	20	6	271	167 617 113
32	25	6	481	167 617 114
40	32	6	759	167 617 115
50	40	6	960	167 617 116
63	50	6	1181	167 617 117

table continued next page

PROGEF Standard metric



d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	95	65	14	130	25	101	14	12	60	43	M6	7
25	96	1/8	105	75	14	150	25	132	18	12	73	57	M6	10
32	96	1/8	115	85	14	160	25	143	22	12	84	69	M6	13
40	120	1/8	140	100	18	180	45	173	26	15	99	69	M8	14
50	120	1/8	150	110	18	200	45	193	32	15	119	69	M8	16
63	120	1/8	165	125	18	230	45	205	39	15	132	69	M8	16



PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) Unions with fusion sockets metric

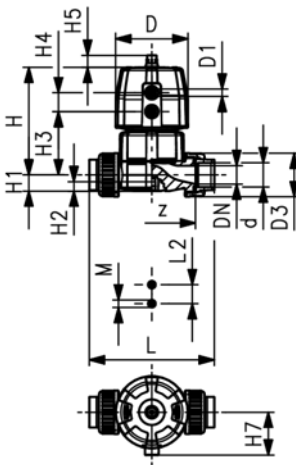
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM



d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10/10*	125	167 624 012	167 624 032
25	20	10/10*	271	167 624 013	167 624 033
32	25	10/10*	481	167 624 014	167 624 034
40	32	10/10*	759	167 624 015	167 624 035
50	40	10/10*	1263	167 624 016	167 624 036
63	50	10/6*	1728	167 624 017	167 624 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	100	7
25	96	1/8	150	25	132	18	12	73	25	16	57	M6	118	10
32	96	1/8	162	25	143	22	12	84	25	16	57	M6	126	13
40	120	1/8	184	45	173	26	15	99	26	26	69	M8	144	15
50	150	1/4	210	45	214	32	15	119	36	26	88	M8	164	19
63	150	1/4	248	45	226	39	15	132	36	26	88	M8	194	23

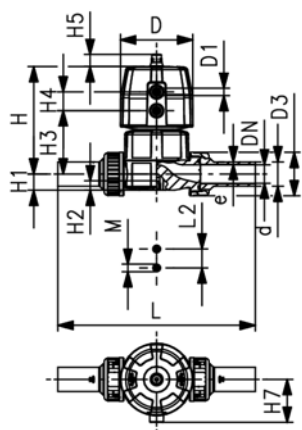
PROGEF Standard metric

PROGEF Standard

Diaphragm valve DIASTAR Ten

FC (Fail safe to close)

Unions with butt fusion spigots SDR11 metric



Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

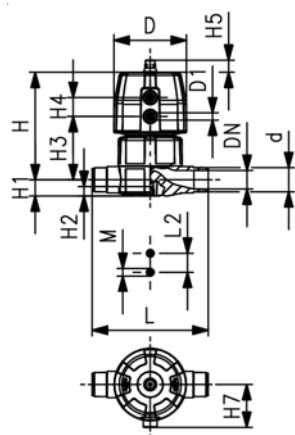
* PN: PTFE/EPDM

d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	PTFE/FPM Code	FPM Code
20	15	10/10*	125	167 624 112	167 624 132	800 047 354	800 047 273
25	20	10/10*	271	167 624 113	167 624 133	800 047 355	800 047 339
32	25	10/10*	481	167 624 114	167 624 134	800 047 356	800 047 340
40	32	10/10*	759	167 624 115	167 624 135	800 047 230	800 047 274
50	40	10/10*	1263	167 624 116	167 624 136	800 047 357	800 047 341
63	50	10/6*	1728	167 624 117	167 624 137	800 047 358	800 047 342

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	196	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	2.3
32	96	1/8	234	25	143	22	12	84	25	16	57	M6	13	2.9
40	120	1/8	260	45	173	26	15	99	26	26	69	M8	15	3.7
50	150	1/4	284	45	214	32	15	119	36	26	88	M8	19	4.6
63	150	1/4	321	45	226	39	15	132	36	26	88	M8	23	5.8

PROGEF Standard metric

PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) With socket fusion spigots metric



Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

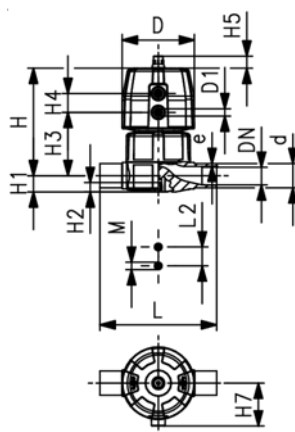
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM

d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10/10*	125	167 625 012	167 625 032
25	20	10/10*	271	167 625 013	167 625 033
32	25	10/10*	481	167 625 014	167 625 034
40	32	10/10*	759	167 625 015	167 625 035
50	40	10/10*	1263	167 625 016	167 625 036
63	50	10/6*	1728	167 625 017	167 625 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	3.7
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8

PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) With butt fusion spigots SDR11 metric



Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

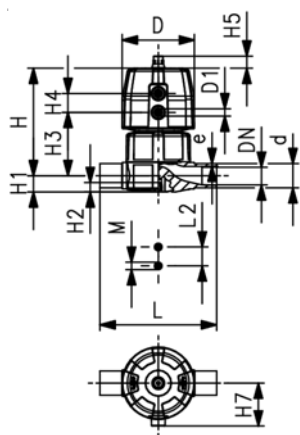
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM

d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10/10*	125	167 625 112	167 625 132
25	20	10/10*	271	167 625 113	167 625 133
32	25	10/10*	481	167 625 114	167 625 134
40	32	10/10*	759	167 625 115	167 625 135
50	40	10/10*	1263	167 625 116	167 625 136
63	50	10/6*	1728	167 625 117	167 625 137

table continued next page

PROGEF Standard metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23



PROGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) With backing flanges PP-V metric/BS

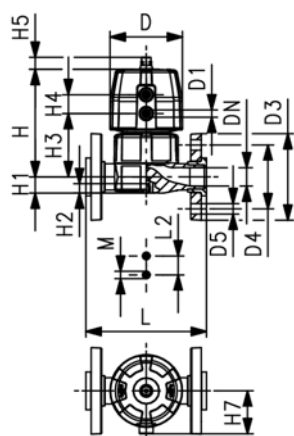
Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM



d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10/10*	125	167 627 112	167 627 132
25	20	10/10*	271	167 627 113	167 627 133
32	25	10/10*	481	167 627 114	167 627 134
40	32	10/10*	759	167 627 115	167 627 135
50	40	10/10*	1263	167 627 116	167 627 136
63	50	10/6*	1728	167 627 117	167 627 137

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	43	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	69	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	69	M8
50	150	1/4	150	110	18	200	45	193	32	15	119	36	26	88	M8
63	150	1/4	165	125	18	230	45	205	39	15	132	36	26	88	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

PROGEF Standard metric

PROGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) Unions with fusion sockets metric

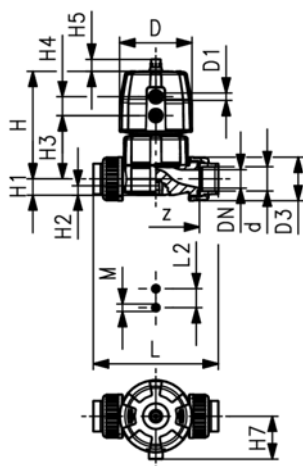


Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	167 644 012	167 644 032
25	20	10	271	167 644 013	167 644 033
32	25	10	481	167 644 014	167 644 034
40	32	10	759	167 644 015	167 644 035
50	40	10	1263	167 644 016	167 644 036
63	50	10	1728	167 644 017	167 644 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	100	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	118	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	126	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	144	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	164	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	194	23

PROGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) Unions with butt fusion spigots SDR11 metric

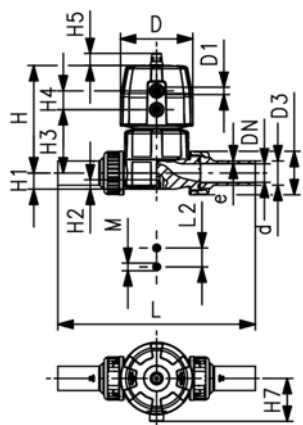


Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

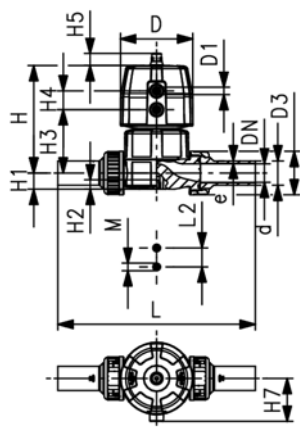
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	167 644 112	167 644 132
25	20	10	271	167 644 113	167 644 133
32	25	10	481	167 644 114	167 644 134
40	32	10	759	167 644 115	167 644 135
50	40	10	1263	167 644 116	167 644 136
63	50	10	1728	167 644 117	167 644 137

table continued next page

PROGEF Standard metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	196	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	2.3
32	96	1/8	234	25	143	22	12	84	25	16	57	M6	13	2.9
40	120	1/8	260	45	173	26	15	99	26	26	69	M8	15	3.7
50	150	1/4	284	45	214	32	15	119	36	26	69	M8	19	4.6
63	150	1/4	321	45	226	39	15	132	36	26	69	M8	23	5.8



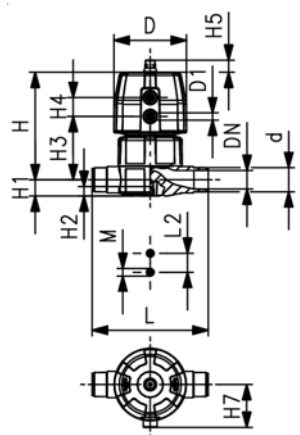
PROGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) With socket fusion spigots metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

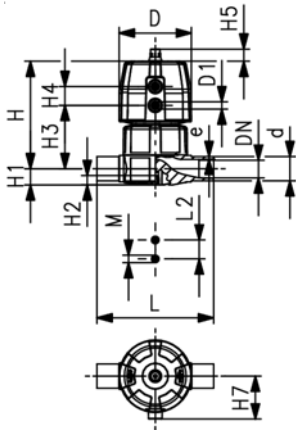


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	167 645 012	167 645 032
25	20	10	271	167 645 013	167 645 033
32	25	10	481	167 645 014	167 645 034
40	32	10	759	167 645 015	167 645 035
50	40	10	1263	167 645 016	167 645 036
63	50	10	1728	167 645 017	167 645 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	3.7
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8

PROGEF Standard metric

PROGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) With butt fusion spigots SDR11 metric



Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

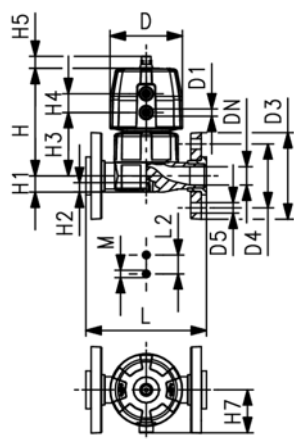
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code										
20	15	10	125	167 645 112	167 645 132										
25	20	10	271	167 645 113	167 645 133										
32	25	10	481	167 645 114	167 645 134										
40	32	10	759	167 645 115	167 645 135										
50	40	10	1263	167 645 116	167 645 136										
63	50	10	1728	167 645 117	167 645 137										

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	3.7	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8	

PROGEF Standard metric

PROGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) With backing flanges PP-V metric/BS



Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	167 647 112	167 647 132
25	20	10	271	167 647 113	167 647 133
32	25	10	481	167 647 114	167 647 134
40	32	10	759	167 647 115	167 647 135
50	40	10	1263	167 647 116	167 647 136
63	50	10	1728	167 647 117	167 647 137

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	57	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	69	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	88	M8
50	150	1/4	150	110	18	200	45	214	32	15	119	36	26	103	M8
63	150	1/4	165	125	18	230	45	226	39	15	132	36	26	103	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

PROGEF Standard metric

PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) Unions with fusion sockets metric

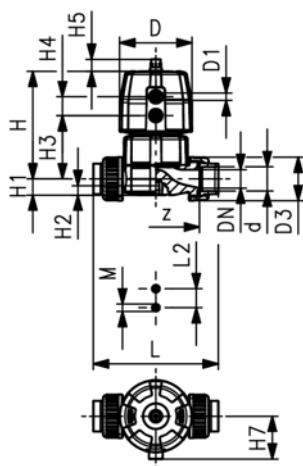


Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	167 654 012	167 654 032
25	20	10	271	167 654 013	167 654 033
32	25	10	481	167 654 014	167 654 034
40	32	10	759	167 654 015	167 654 035
50	40	10	1263	167 654 016	167 654 036
63	50	10	1728	167 654 017	167 654 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	100	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	118	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	126	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	144	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	164	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	194	23

PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) Unions with butt fusion spigots SDR11 metric

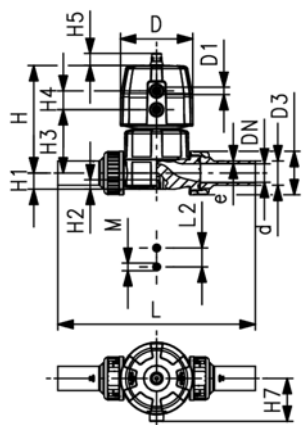


Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

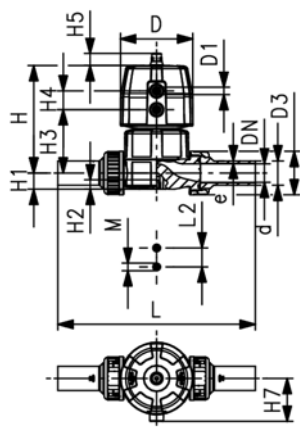
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	167 654 112	167 654 132
25	20	10	271	167 654 113	167 654 133
32	25	10	481	167 654 114	167 654 134
40	32	10	759	167 654 115	167 654 135
50	40	10	1263	167 654 116	167 654 136
63	50	10	1728	167 654 117	167 654 137

table continued next page

PROGEF Standard metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	196	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	2.3	
32	96	1/8	234	25	143	22	12	84	25	16	57	M6	13	2.9	
40	120	1/8	260	45	173	26	15	99	26	26	69	M8	15	3.7	
50	150	1/4	284	45	214	32	15	119	36	26	69	M8	19	4.6	
63	150	1/4	321	45	226	39	15	132	36	26	69	M8	23	5.8	



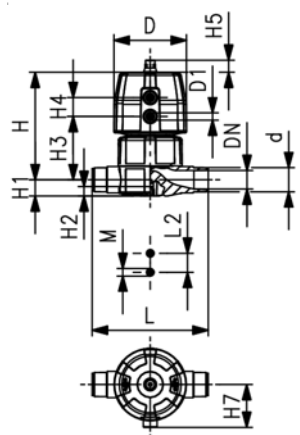
PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With socket fusion spigots metric

Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

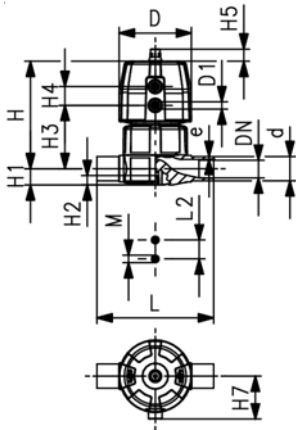


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code	
20	15	10	125	167 655 012	167 655 032	
25	20	10	271	167 655 013	167 655 033	
32	25	10	481	167 655 014	167 655 034	
40	32	10	759	167 655 015	167 655 035	
50	40	10	1263	167 655 016	167 655 036	
63	50	10	1728	167 655 017	167 655 037	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	

PROGEF Standard metric

PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With butt fusion spigots SDR11 metric



Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

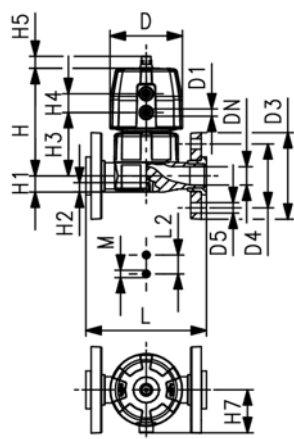
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code										
20	15	10	125	167 655 112	167 655 132										
25	20	10	271	167 655 113	167 655 133										
32	25	10	481	167 655 114	167 655 134										
40	32	10	759	167 655 115	167 655 135										
50	40	10	1263	167 655 116	167 655 136										
63	50	10	1728	167 655 117	167 655 137										

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	3.7	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8	

PROGEF Standard metric

PROGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With backing flanges PP-V metric/BS



Model:

- Material: PP-H
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

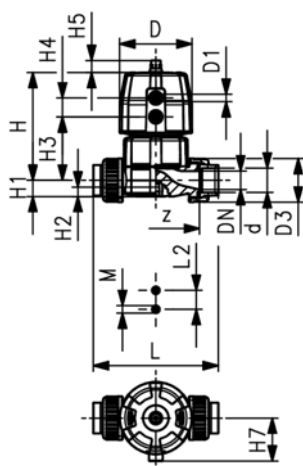
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	167 657 112	167 657 132
25	20	10	271	167 657 113	167 657 133
32	25	10	481	167 657 114	167 657 134
40	32	10	759	167 657 115	167 657 135
50	40	10	1263	167 657 116	167 657 136
63	50	10	1728	167 657 117	167 657 137

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	57	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	69	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	88	M8
50	150	1/4	150	110	18	200	45	214	32	15	119	36	26	103	M8
63	150	1/4	165	125	18	230	45	226	39	15	132	36	26	103	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

PROGEF Standard metric

PROGEF Standard Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) Unions with fusion sockets metric



Model:

- Material: PP-H
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor
- For easy installation and removal
- Short overall length

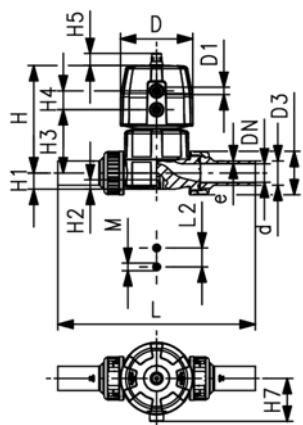
Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	167 634 012	167 634 032
25	20	10	271	167 634 013	167 634 033
32	25	10	481	167 634 014	167 634 034
40	32	10	759	167 634 015	167 634 035
50	40	10	1263	167 634 016	167 634 036
63	50	10	1728	167 634 017	167 634 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	96	1/8	128	25	127	14	12	68	25	16	57	M6	100	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	118	10
32	120	1/8	166	25	167	22	12	93	26	26	69	M6	126	13
40	150	1/4	192	45	196	26	15	101	36	26	88	M8	144	15
50	180	1/4	222	45	239	32	15	124	37	26	103	M8	164	19
63	180	1/4	266	45	251	39	15	137	37	26	103	M8	194	23

PROGEF Standard Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) Unions with butt fusion spigots SDR11 metric



Model:

- Material: PP-H
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor
- For easy installation and removal
- Short overall length

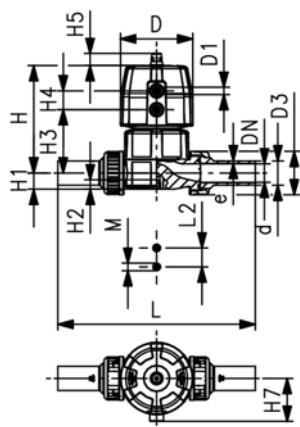
Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	167 634 112	167 634 132
25	20	10	271	167 634 113	167 634 133
32	25	10	481	167 634 114	167 634 134
40	32	10	759	167 634 115	167 634 135
50	40	10	1263	167 634 116	167 634 136
63	50	10	1728	167 634 117	167 634 137

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PROGEF Standard metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	96	1/8	196	25	127	14	12	68	25	16	57	M6	7	1.9
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	2.3
32	120	1/8	234	25	167	22	12	93	26	26	69	M6	13	2.9
40	150	1/4	260	45	196	26	15	101	36	26	88	M8	15	3.7
50	180	1/4	284	45	239	32	15	124	37	26	103	M8	19	4.6
63	180	1/4	321	45	251	39	15	137	37	26	103	M8	23	5.8



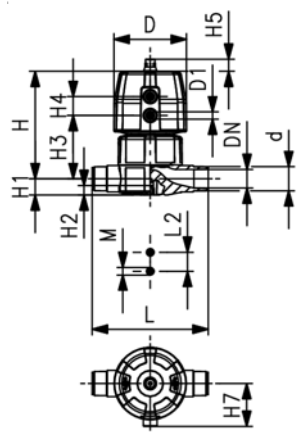
PROGEF Standard Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) With socket fusion spigots metric

Model:

- Material: PP-H
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	15	10	125	167 635 012	167 635 032
25	20	10	271	167 635 013	167 635 033
32	25	10	481	167 635 014	167 635 034
40	32	10	759	167 635 015	167 635 035
50	40	10	1263	167 635 016	167 635 036
63	50	10	1728	167 635 017	167 635 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	96	1/8	124	25	127	14	12	68	25	16	57	M6	7	1.9
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3
32	120	1/8	154	25	167	22	12	93	26	26	69	M6	13	2.9
40	150	1/4	174	45	196	26	15	101	36	26	88	M8	15	3.7
50	180	1/4	194	45	239	32	15	124	37	26	103	M8	19	4.6
63	180	1/4	224	45	251	39	15	137	37	26	103	M8	23	5.8

PROGEF Standard metric

PROGEF Standard Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) With butt fusion spigots SDR11 metric

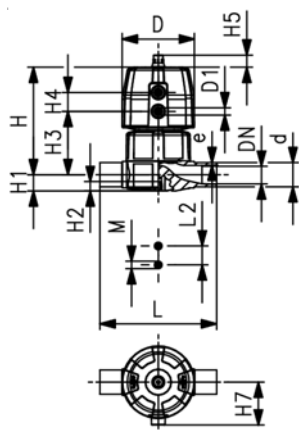


Model:

- Material: PP-H
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code										
20	15	10	125	167 635 112	167 635 132										
25	20	10	271	167 635 113	167 635 133										
32	25	10	481	167 635 114	167 635 134										
40	32	10	759	167 635 115	167 635 135										
50	40	10	1263	167 635 116	167 635 136										
63	50	10	1728	167 635 117	167 635 137										

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	96	1/8	124	25	127	14	12	68	25	16	57	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3	
32	120	1/8	154	25	167	22	12	93	26	26	69	M6	13	2.9	
40	150	1/4	174	45	196	26	15	101	36	26	88	M8	15	3.7	
50	180	1/4	194	45	239	32	15	124	37	26	103	M8	19	4.6	
63	180	1/4	224	45	251	39	15	137	37	26	103	M8	23	5.8	

PROGEF Standard Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) With backing flanges PP-V metric/BS

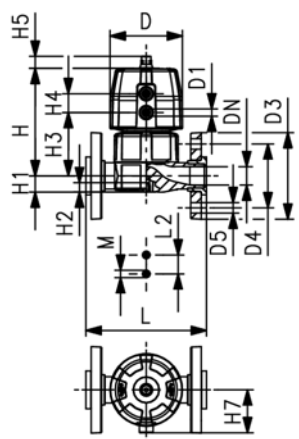


Model:

- Material: PP-H
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Double flow rate compared to predecessor
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code										
20	15	10	125	167 637 112	167 637 132										
25	20	10	271	167 637 113	167 637 133										
32	25	10	481	167 637 114	167 637 134										
40	32	10	759	167 637 115	167 637 135										
50	40	10	1263	167 637 116	167 637 136										
63	50	10	1728	167 637 117	167 637 137										

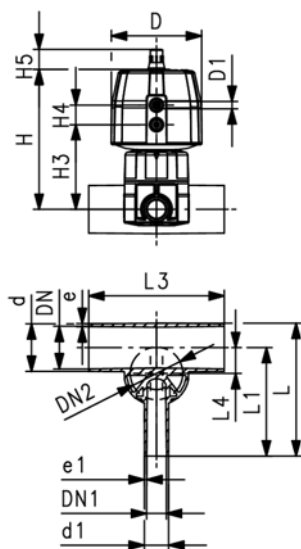
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[illegible]

d [mm]	Lift = Hx [mm]	
20	7	
25	10	
32	13	
40	15	
50	19	
63	23	



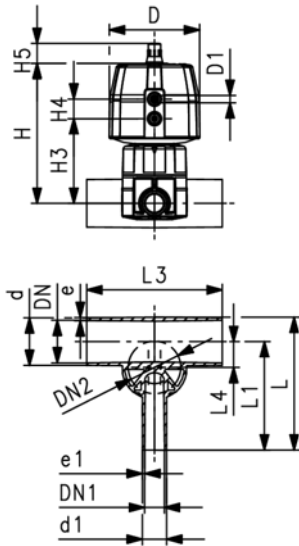
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	D [mm]	D1 [inch]	L [mm]	L1 [mm]	L3 [mm]	L4 [mm]	H [mm]	H3 [mm]	H4 [mm]	H5 [mm]	Lift = Hx [mm]	e [mm]	e1 [mm]	
20	96	$\frac{1}{8}$	117	96	162	12	130	71	25	16	7	1.9	1.9	
25	96	$\frac{1}{8}$	133	108	162	16	131	72	25	16	10	2.3	1.9	
25	96	$\frac{1}{8}$	133	108	162	16	131	72	25	16	10	2.3	2.3	
32	96	$\frac{1}{8}$	142	120	162	19	135	76	25	16	10	2.9	1.9	
32	96	$\frac{1}{8}$	142	120	162	19	135	76	25	16	10	2.9	2.3	
32	120	$\frac{1}{8}$	145	120	160	19	167	93	26	26	13	2.9	2.9	
40	120	$\frac{1}{8}$	149	128	180	23	175	101	26	26	13	3.7	1.9	
50	96	$\frac{1}{8}$	160	134	180	27	148	90	25	16	10	4.6	1.9	
50	120	$\frac{1}{8}$	160	134	180	28	180	106	26	26	13	4.6	2.3	
50	120	$\frac{1}{8}$	160	134	180	28	180	106	26	26	13	4.6	2.9	

+GF+

PROGEF Standard metric



d [mm]	D [mm]	D1 [inch]	L [mm]	L1 [mm]	L3 [mm]	L4 [mm]	H [mm]	H3 [mm]	H4 [mm]	H5 [mm]	Lift = Hx [mm]	e [mm]	e1 [mm]	
63	96	1/8	177	144	180	33	155	96	25	26	10	5.8	1.9	
63	120	1/8	177	144	180	35	187	113	26	16	13	5.8	2.3	
63	120	1/8	177	144	180	35	187	113	26	26	13	5.8	2.9	

PROGEF Standard metric

Diaphragm valves pneumatic



PROGEF Standard

Diaphragm valve type DIASTAR

Series 025 FC (Fail safe to close)

With fixed flanges PP metric

Model:

- Material: PP-H
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

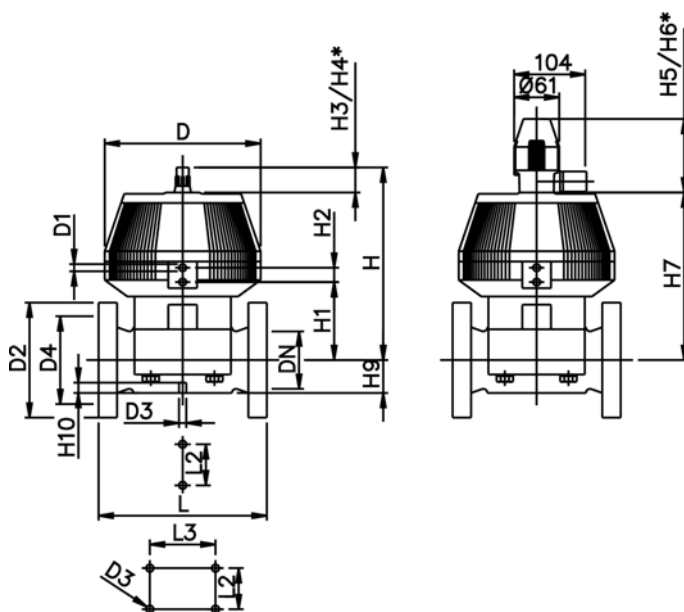
* With backing flanges PP-V

** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
* 75	65	2 ½	10	992	199 025 267	199 025 297
** 90	80	3	10	1700	199 025 268	199 025 298
110	100	4	6	2700	199 025 269	199 025 299
** 160	150	6	6	6033	199 025 270	-

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	¼	185	8	145	290	70		344	148	24	46	100	129
** 90	280	¼	200	12	160	310	120		348	150	24	46	100	129
110	335	¼	225	12	180	350	120		395	176	24	46	100	129
** 160	335	¼	285	12	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	195	298	46	15
** 90	195	302	57	15
110	195	349	69	20
** 160	195	409	108	20



PROGEF Standard metric

PROGEF Standard Diaphragm valve type DIASTAR Series 025 FO (Fail safe to open) With fixed flanges PP metric



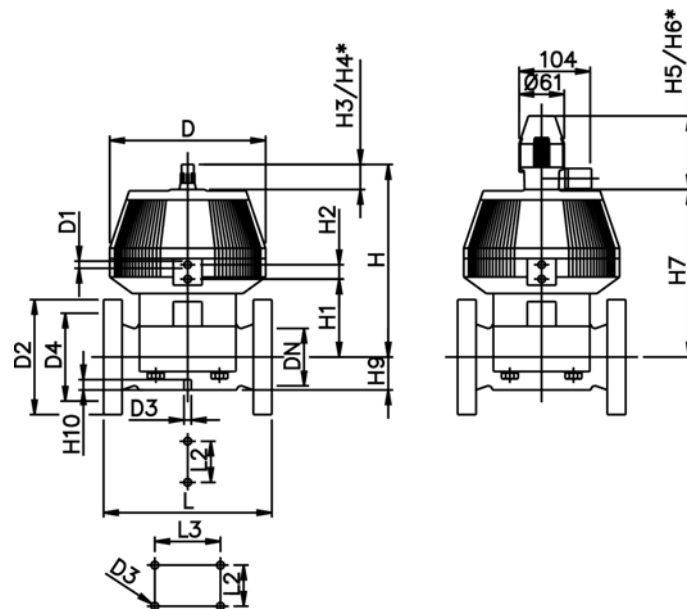
Model:

- Material: PP-H
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	
* 75	65	2 1/2	10	992	199 025 277	199 025 307	
** 90	80	3	10	1700	199 025 278	199 025 308	
110	100	4	6	2700	199 025 279	199 025 309	
** 160	150	6	6	6033	199 025 280	199 025 310	

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	1/4	185	8	145	290	70		344	148	24	46	100	129
** 90	280	1/4	200	12	160	310	120		348	150	24	46	100	129
110	335	1/4	225	12	180	350	120		395	176	24	46	100	129
** 160	335	1/4	285	12	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]	
* 75	195	298	46	15	
** 90	195	302	57	15	
110	195	349	69	20	
** 160	195	409	108	20	



PROGEF Standard metric

PROGEF Standard Diaphragm valve type DIASTAR Series 025 DA (Double acting) With fixed flanges PP metric



Model:

- Material: PP-H
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **one side**

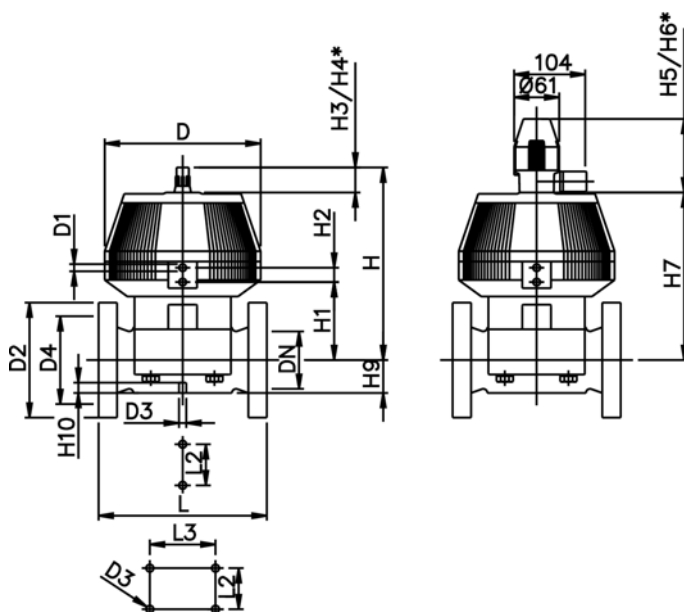
* With backing flanges PP-V

** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code	
* 75	65	2 1/2	10	992	199 025 287	199 025 317	
** 90	80	3	10	1700	199 025 288	199 025 318	
110	100	4	6	2700	199 025 289	199 025 319	
** 160	150	6	6	6033	199 025 290	199 025 320	

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	1/4	185	8	145	290	70		344	148	24	46	100	129
** 90	280	1/4	200	12	160	310	120		348	150	24	46	100	129
110	335	1/4	225	12	180	350	120		395	176	24	46	100	129
** 160	335	1/4	285	12	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]	
* 75	195	298	46	15	
** 90	195	302	57	15	
110	195	349	69	20	
** 160	195	409	108	20	



PROGEF Standard metric

Solenoid valves

PROGEF Standard

Solenoid valve type 166

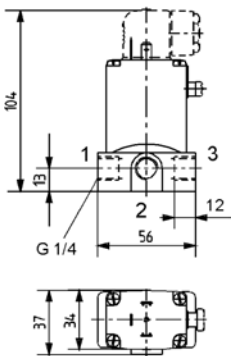
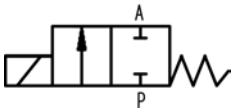
Function A straight-through valve 2/2 ways

Nominal voltage 24V DC

With G 1/4 line connection

Model:

- Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
3	1/4	A	0.0 - 8.0	4	199 166 000	199 166 005	
4	1/4	A	0.0 - 4.0	5	199 166 001	199 166 006	
5	1/4	A	0.0 - 3.0	6	199 166 002	199 166 007	

PROGEF Standard

Solenoid valve type 166

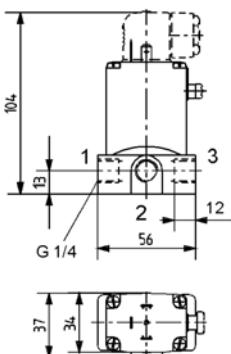
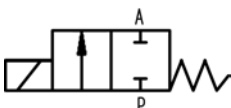
Function A straight-through valve 2/2 ways

Nominal voltage 230V 50Hz $\pm 10\%$

With G 1/4 line connection

Model:

- Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
3	1/4	A	0.0 - 10.0	4	199 166 010	199 166 015	
4	1/4	A	0.0 - 5.0	5	199 166 011	199 166 016	
5	1/4	A	0.0 - 4.5	6	199 166 012	199 166 017	

PROGEF Standard metric

PROGEF Standard

Solenoid valve type 166

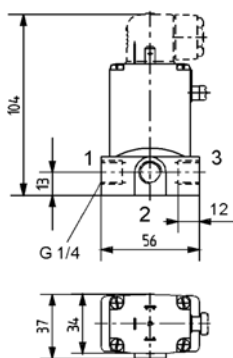
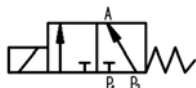
Function E mixing valve 3/2 ways

Nominal voltage 24V DC

With G 1/4 line connection

Model:

- Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
3	1/4	E	0.0 - 4.0	4	199 166 150	199 166 155	
4	1/4	E	0.0 - 2.0	5	199 166 151	199 166 156	

PROGEF Standard

Solenoid valve type 166

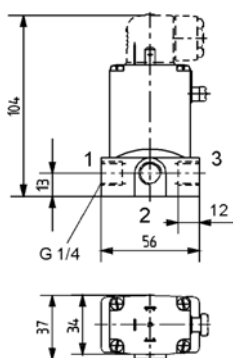
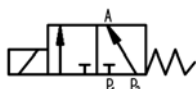
Function E mixing valve 3/2 ways

Nominal voltage 230V 50Hz $\pm 10\%$

With G 1/4 line connection

Model:

- Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
3	1/4	E	0.0 - 6.0	4	199 166 160	199 166 165	
4	1/4	E	0.0 - 3.0	5	199 166 161	199 166 166	

PROGEF Standard metric

PROGEF Standard

Solenoid valve type 166

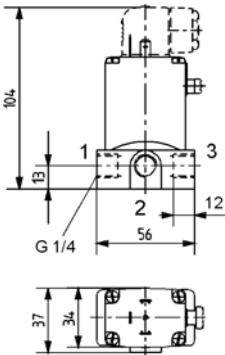
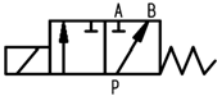
Function F distribution valve 3/2 ways

Nominal voltage 24V DC

With G 1/4 line connection

Model:

- Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
4	1/4	F	0.0 - 4.0	5	199 166 201	199 166 206	

PROGEF Standard

Solenoid valve type 166

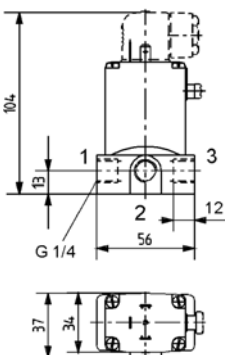
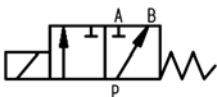
Function F distribution valve 3/2 ways

Nominal voltage 230V 50Hz $\pm 10\%$

With G 1/4 line connection

Model:

- Material: PP-H
- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
4	1/4	F	0.0 - 5.0	5	199 166 211	199 166 216	

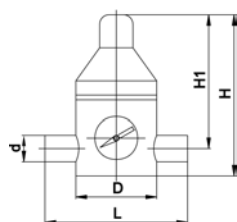
PROGEF Standard metric

Process control valves

PROGEF Standard Pressure reducing valve type V82 With fusion spigots metric

Model:

- Material: PP-H

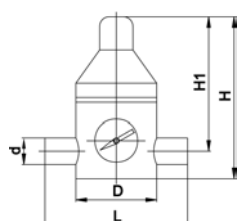


d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 032	199 041 042	70	134	130	100	
20	15	0.5 - 10	199 041 033	199 041 043	70	134	130	100	
25	20	0.5 - 10	199 041 034	199 041 044	100	174	180	134	
32	25	0.5 - 10	199 041 035	199 041 045	100	174	180	134	
40	32	0.5 - 10	199 041 036	199 041 046	130	224	230	175	
50	40	0.5 - 10	199 041 037	199 041 047	130	224	230	175	
63	50	0.5 - 10	199 041 038	199 041 048	150	244	285	210	
75	65	0.5 - 6	199 041 039	199 041 049	200	300	350	250	
90	80	0.5 - 6	199 041 040	199 041 050	250	360	425	305	
110	100	0.5 - 4	199 041 041	199 041 051	300	420	495	345	

PROGEF Standard Pressure reducing valve type V82 With butt fusion spigots IR metric

Model:

- Material: PP-H

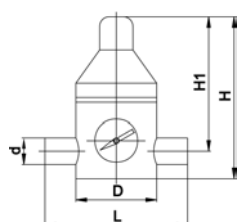


d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
20	15	0.5 - 10	199 041 411	199 041 421	70	150	130	100	
25	20	0.5 - 10	199 041 412	199 041 422	100	190	180	134	
32	25	0.5 - 10	199 041 413	199 041 423	100	190	180	134	
40	32	0.5 - 10	199 041 414	199 041 424	130	240	230	175	
50	40	0.5 - 10	199 041 415	199 041 425	130	240	230	175	
63	50	0.5 - 10	199 041 416	199 041 426	150	260	285	210	
75	65	0.5 - 6	199 041 417	199 041 427	200	300	350	250	
90	80	0.5 - 6	199 041 418	199 041 428	250	360	425	305	
110	100	0.5 - 4	199 041 419	199 041 429	300	420	495	345	

PROGEF Standard Pressure reducing valve type V182 With fusion spigots metric

Model:

- Material: PP-H



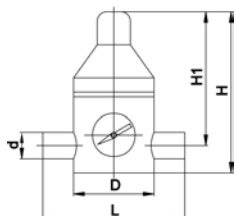
d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	FPM Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 621	199 041 631	70	134	130	100	
20	15	0.5 - 10	199 041 622	199 041 632	70	134	130	100	
25	20	0.5 - 10	199 041 623	199 041 633	100	174	180	134	
32	25	0.5 - 10	199 041 624	199 041 634	100	174	180	134	
40	32	0.5 - 10	199 041 625	199 041 635	130	224	230	175	
50	40	0.5 - 10	199 041 626	199 041 636	130	224	230	175	

PROGEF Standard metric

PROGEF Standard Pressure reducing valve type V182 With butt fusion spigots IR metric

Model:

- Material: PP-H

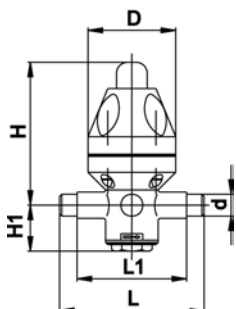


d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	FPM Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 641	199 041 651	70		130	100	
20	15	0.5 - 10	199 041 642	199 041 652	70	150	130	100	
25	20	0.5 - 10	199 041 643	199 041 653	100	190	180	134	
32	25	0.5 - 10	199 041 644	199 041 654	100	190	180	134	
40	32	0.5 - 10	199 041 645	199 041 655	130	240	230	175	
50	40	0.5 - 10	199 041 646	199 041 656	130	240	230	175	

PROGEF Standard Pressure reducing valve type V782 With fusion spigots metric

Model:

- Material: PP-H

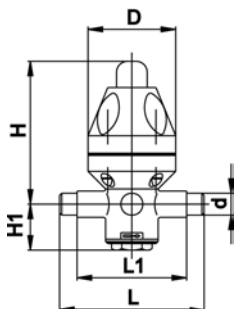


d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 072	199 041 078	83	134	102	138	48	
20	15	0.5 - 10	199 041 073	199 041 079	83	134	102	138	48	
25	20	0.5 - 10	199 041 074	199 041 080	113	154	110	205	65	
32	25	0.5 - 10	199 041 075	199 041 081	113	154	110	205	65	
40	32	0.5 - 10	199 041 076	199 041 082	165	224	162	248	95	
50	40	0.5 - 10	199 041 077	199 041 083	165	224	162	248	95	

PROGEF Standard Pressure reducing valve type V782 With butt fusion spigots IR metric

Model:

- Material: PP-H



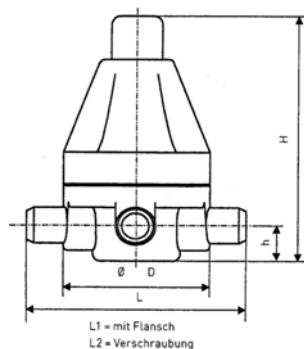
d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
20	15	0.5 - 10	199 041 299	199 041 404	83	172	102	138	48	
25	20	0.5 - 10	199 041 300	199 041 405	113	190	110	205	65	
32	25	0.5 - 10	199 041 301	199 041 406	113	190	110	205	65	
40	32	0.5 - 10	199 041 302	199 041 407	165	262	162	248	95	
50	40	0.5 - 10	199 041 303	199 041 408	165	262	162	248	95	

PROGEF Standard metric

PROGEF Standard Pressure relief valve type V185 With fusion spigots metric

Model:

- Material: PP-H

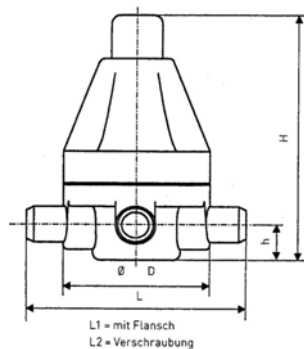


d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 367	199 041 337	83	134	137	20	
20	15	0.5 - 10	199 041 368	199 041 338	83	134	137	20	
25	20	0.5 - 10	199 041 369	199 041 339	83	134	137	20	
32	25	0.5 - 10	199 041 370	199 041 340	112	174	199	27	
40	32	0.5 - 10	199 041 371	199 041 341	112	174	199	43	
50	40	0.5 - 10	199 041 372	199 041 342	165	224	290	43	
63	50	0.5 - 10	199 041 373	199 041 343	165	244	290	43	

PROGEF Standard Pressure relief valve type V185 With butt fusion spigots IR metric

Model:

- Material: PP-H

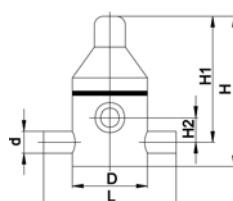


d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
20	15	0.5 - 10	199 041 505	199 041 512	83	158	137	20	
25	20	0.5 - 10	199 041 506	199 041 513	83	158	137	20	
32	25	0.5 - 10	199 041 507	199 041 514	112	198	199	27	
40	32	0.5 - 10	199 041 508	199 041 515	165	202	199	43	
50	40	0.5 - 10	199 041 509	199 041 516	165	256	290	43	
63	50	0.5 - 10	199 041 510	199 041 517	165	256	290	43	

PROGEF Standard Pressure relief valve type V85 With fusion spigots metric

Model:

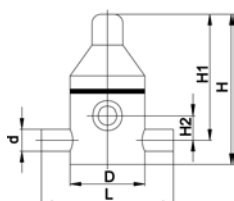
- Material: PP-H



d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	H2 [mm]	
75	65	1.0 - 6	199 041 926	199 041 895	180	284	295	250	70	
90	80	1.0 - 6	199 041 893	199 041 896	200	300	400	340	95	
110	100	1.0 - 4	199 041 894	199 041 897	250	380	475	405	110	

PROGEF Standard metric

PROGEF Standard Pressure relief valve type V85 With butt fusion spigots IR metric

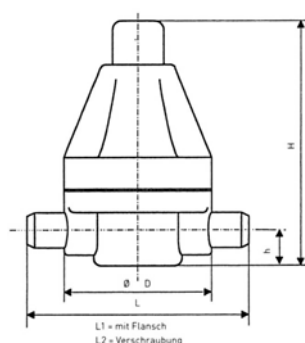


d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	H2 [mm]	
75	65	1.0 - 6	199 041 530	199 041 533	180	284	295	250	70	
90	80	1.0 - 6	199 041 531	199 041 534	200	300	400	340	95	
110	100	1.0 - 4	199 041 532	199 041 535	250	380	475	405	110	

PROGEF Standard Pressure retaining valve type V186 With fusion spigots metric

Model:

- Material: PP-H

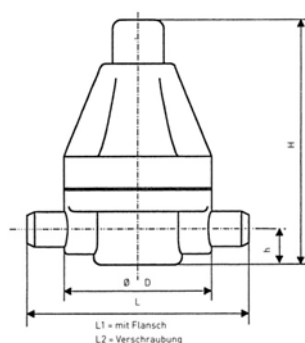


d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 386	199 041 316	83	134	137	20	
20	15	0.5 - 10	199 041 387	199 041 317	83	134	137	20	
25	20	0.5 - 10	199 041 388	199 041 318	83	134	137	20	
32	25	0.5 - 10	199 041 389	199 041 319	112	174	199	27	
40	32	0.5 - 10	199 041 390	199 041 320	112	174	199	43	
50	40	0.5 - 10	199 041 391	199 041 321	165	224	290	43	
63	50	0.5 - 10	199 041 392	199 041 322	165	244	290	43	

PROGEF Standard Pressure retaining valve type V186 With butt fusion spigots IR metric

Model:

- Material: PP-H



d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
20	15	0.5 - 10	199 041 446	199 041 453	83	158	137	20	
25	20	0.5 - 10	199 041 447	199 041 454	83	158	137	20	
32	25	0.5 - 10	199 041 448	199 041 455	112	198	199	27	
40	32	0.5 - 10	199 041 449	199 041 456	112	202	199	43	
50	40	0.5 - 10	199 041 450	199 041 457	165	256	290	43	
63	50	0.5 - 10	199 041 451	199 041 458	165	256	290	43	

PROGEF Standard metric

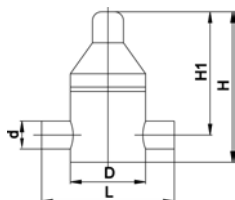
PROGEF Standard

Pressure retaining valve type V86

With fusion spigots metric

Model:

- Material: PP-H

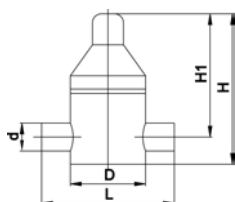


d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
75	65	0.2 - 4	199 041 882	199 041 887	180	284	275	230	
75	65	1.0 - 6	199 041 883	199 041 888	180	284	275	230	
90	80	0.2 - 4	199 041 884	199 041 889	250	360	410	320	
90	80	1.0 - 6	199 041 885	199 041 890	250	360	410	320	
110	100	1.0 - 4	199 041 886	199 041 891	250	380	485	415	

PROGEF Standard

Pressure retaining valve type V86

With butt fusion spigots IR metric



d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
75	65	0.2 - 4	199 041 470	199 041 475	180	284	275	230	
75	65	1.0 - 6	199 041 471	199 041 476	180	284	275	230	
90	80	0.2 - 4	199 041 472	199 041 477	250	360	410	320	
90	80	1.0 - 6	199 041 473	199 041 478	250	360	410	320	
110	100	1.0 - 4	199 041 474	199 041 479	250	380	485	415	

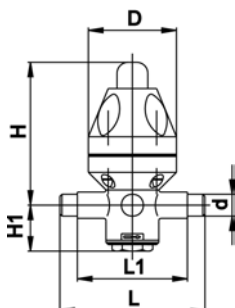
PROGEF Standard

Pressure retaining valve type V786

With fusion spigots metric

Model:

- Material: PP-H



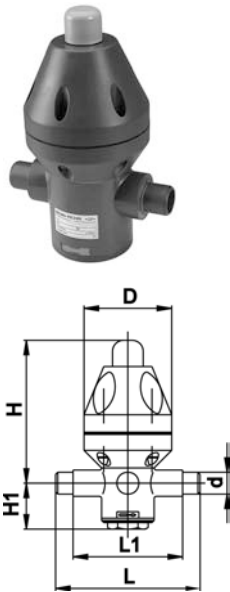
d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 102	199 041 108	83	134	102	138	38	
20	15	0.5 - 10	199 041 103	199 041 109	83	134	102	138	38	
25	20	0.5 - 10	199 041 104	199 041 110	112	154	110	205	55	
32	25	0.5 - 10	199 041 105	199 041 111	112	154	110	205	55	
40	32	0.5 - 4	199 041 106	199 041 112	165	224	162	248	85	
50	40	0.5 - 4	199 041 107	199 041 113	165	224	162	248	85	

PROGEF Standard metric

PROGEF Standard Pressure retaining valve type V786 With butt fusion spigots IR metric

Model:

- Material: PP-H



d [mm]	DN [mm]	Pressure range [bar]	EPDM Code	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
20	15	0.5 - 10	199 041 431	199 041 437	83	172	102	138	38	
25	20	0.5 - 10	199 041 432	199 041 438	112	190	110	205	55	
32	25	0.5 - 10	199 041 433	199 041 439	112	190	110	205	55	
40	32	0.5 - 4	199 041 434	199 041 440	165	262	162	248	85	
50	40	0.5 - 4	199 041 435	199 041 441	165	262	162	248	85	

PROGEF Standard Gauge guard type Z700 With manometer 0-10 bar

Model:

- Material: PP-H



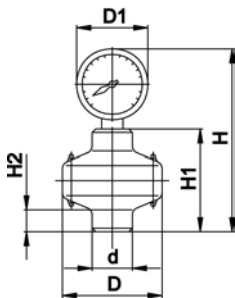
d [mm]	PTFE Code	G_R	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	
25	199 041 002	¼	72	63	129	71	15	
32	199 041 003	½	100	100	210	90	22	

PROGEF Standard metric

PROGEF Standard Gauge guard type Z700 With manometer 0-6 bar

Model:

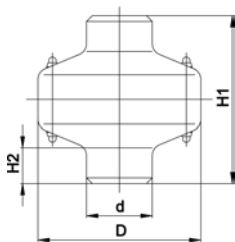
- Material: PP-H



PROGEF Standard Gauge guard type Z701 Without manometer

Model:

- Material: PP-H



d [mm]	PTFE Code	G_R	D [mm]	H1 [mm]	H2 [mm]	
25	199 041 008	¼	72	71	15	
32	199 041 009	½	100	90	22	

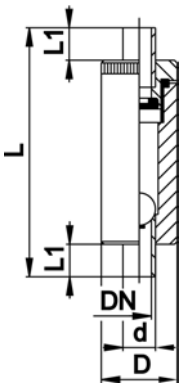
PROGEF Standard metric

PROGEF Standard

Ventilating and bleed valve type V91 With fusion spigots metric

Model:

- Material: PP-H



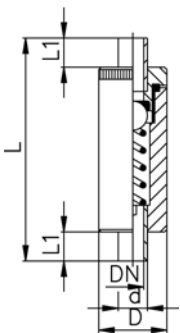
d [mm]	DN [mm]	PN	FPM Code	D [mm]	L [mm]	L1 [mm]	
16	10	10	199 041 247	35	114	14	
20	15	10	199 041 248	40	124	16	
25	20	10	199 041 249	45	144	19	
32	25	10	199 041 250	55	154	22	
40	32	10	199 041 251	70	174	26	
50	40	10	199 041 252	80	194	31	
63	50	10	199 041 253	95	224	38	
75	65	10	199 041 254	115	284	44	
90	80	10	199 041 255	150	300	51	

PROGEF Standard

Ventilating valve type V95 With fusion spigots metric

Model:

- Material: PP-H



d [mm]	DN [mm]	PN	FPM Code	D [mm]	L [mm]	L1 [mm]	
16	10	10	199 041 274	35	114	14	
20	15	10	199 041 275	40	124	16	
25	20	10	199 041 276	45	144	19	
32	25	10	199 041 277	55	154	22	
40	32	10	199 041 278	70	174	26	
50	40	10	199 041 279	80	194	31	
63	50	10	199 041 280	95	224	38	
75	65	10	199 041 281	115	284	44	
90	80	10	199 041 282	150	300	51	

PROGEF Standard metric

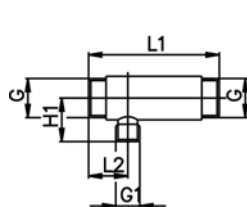
PROGEF Standard Water jet suction pump type P20

Model:

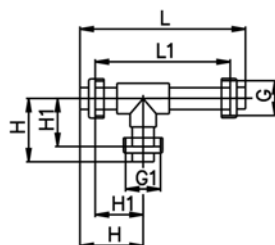
- Material: PP-H
- DN 10-20: BSP parallel female thread
- DN 25-50: Fusion socket metric
- DN 65-80: Fusion spigot metric



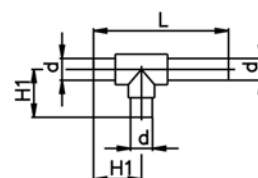
d [mm]	DN [mm]	PN	EPDM Code	G [inch]	G1 [inch]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]
16	10	10	199 041 129	R 3/4	R 3/4		110	40		35
20	15	10	199 041 130	R 1	R 3/4		125	40		35
25	20	10	199 041 131	R 1 1/4	R 3/4		145	45		45
32	25	10	199 041 132	R 1 1/2	R 1 1/2	245	195		96	71
40	32	10	199 041 133	R 2	R 2	297	239		116	87
50	40	10	199 041 134	R 2 1/4	R 2 1/4	369	301		139	105
63	50	10	199 041 135	R 2 3/4	R 2 3/4	433	351		169	128
75	65	10	199 041 136	R 1	-	388				115
90	80	10	199 041 137	R 2 3/4	-	465				149



DN 10 - 20



DN 25 - 50

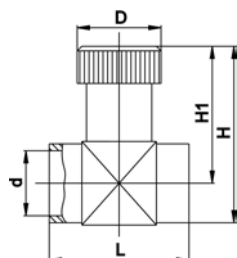


DN 65 - 80

PROGEF Standard Throttle valve V251 With fusion sockets metric

Model:

- Material: PP-H



d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	L [mm]	H [mm]	H1 [mm]
16	10	10	199 041 217	199 041 224	29	47	57	45
20	15	10	199 041 218	199 041 225	35	55	66	51
25	20	10	199 041 219	199 041 226	40	66	80	63
32	25	10	199 041 220	199 041 227	47	80	96	75
40	32	10	199 041 221	199 041 228	56	100	111	86
50	40	10	199 041 222	199 041 229	70	120	133	101
63	50	10	199 041 223	199 041 230	88	146	158	118

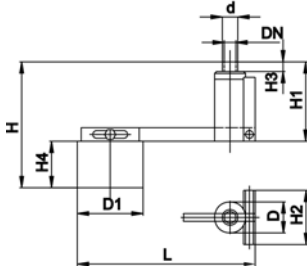
PROGEF Standard metric

PROGEF Standard Float valve type V140 With fusion spigots metric



Model:

- Material: PP-H
- Lever 1:10



d [mm]	DN [mm]	PN	EPDM Code	FPM Code	D [mm]	D1 [mm]	L [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	
16	10	6	199 041 165	199 041 174	45	125	380	270	120	80	14	130	
20	15	6	199 041 166	199 041 175	45	125	380	270	120	80	16	130	
25	20	6	199 041 167	199 041 176	65	200	530	340	160	110	19	170	
32	25	6	199 041 168	199 041 177	65	200	530	345	165	110	22	170	
40	32	6	199 041 169	199 041 178	90	225	720	440	210	130	26	210	
50	40	6	199 041 170	199 041 179	90	225	720	445	215	130	31	210	
63	50	6	199 041 171	199 041 180	130	315	975	595	255	160	38	290	
75	65	6	199 041 172	199 041 181	130	315	975	600	260	160	44	290	
90	80	6	199 041 173	199 041 182	150	355	1140	640	290	180	51	340	



Diaphragm valves pneumatic
New generation

390

PROGEF Natural

Diaphragm valves pneumatic

New generation



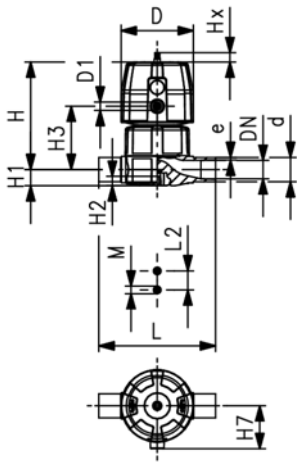
PROGEF Natural
Diaphragm valve DIASTAR Six
FC (Fail safe to close)
With butt fusion spigots SDR11 metric

Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code									
20	15	6	125	168 615 112									
25	20	6	271	168 615 113									
32	25	6	481	168 615 114									
40	32	6	759	168 615 115									
50	40	6	960	168 615 116									
63	50	6	1181	168 615 117									

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]		
20	68	1/8	124	25	101	14	12	60	43	M6	7	1.9		
25	96	1/8	144	25	132	18	12	73	57	M6	10	2.3		
32	96	1/8	154	25	143	22	12	84	57	M6	13	2.9		
40	120	1/8	174	45	173	26	15	99	69	M8	14	3.7		
50	120	1/8	194	45	193	32	15	119	69	M8	16	4.6		
63	120	1/8	224	45	205	39	15	132	69	M8	16	5.8		

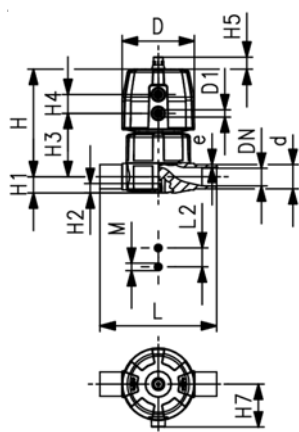
PROGEF Natural

PROGEF Natural

Diaphragm valve DIASTAR Ten

FC (Fail safe to close)

With butt fusion spigots SDR11 metric



Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE Code
20	15	10	125	168 625 112	168 625 132
25	20	10	271	168 625 113	168 625 133
32	25	10	481	168 625 114	168 625 134
40	32	10	759	168 625 115	168 625 135
50	40	10	1263	168 625 116	168 625 136
63	50	10	1728	168 625 117	168 625 137

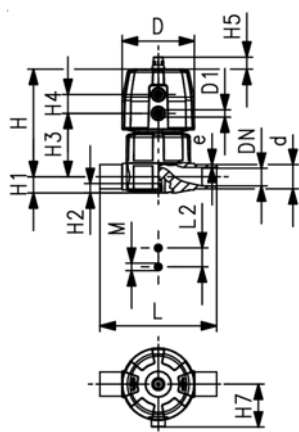
d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9
40	120	1/4	174	45	173	26	15	99	26	26	69	M8	15	3.7
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8

PROGEF Natural

Diaphragm valve DIASTAR Ten

FO (Fail safe to open)

With butt fusion spigots SDR11 metric



Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

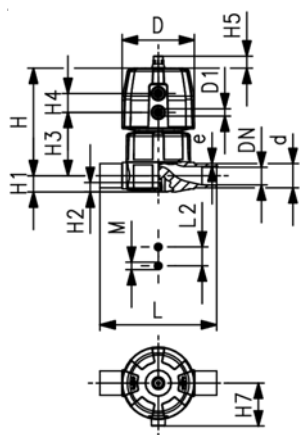
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE Code
20	15	10	125	168 645 112	168 645 132
25	20	10	271	168 645 113	168 645 133
32	25	10	481	168 645 114	168 645 134
40	32	10	759	168 645 115	168 645 135
50	40	10	1263	168 645 116	168 645 136
63	50	10	1728	168 645 117	168 645 137

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9

table continued next page

PROGEF Natural



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	3.7	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8	



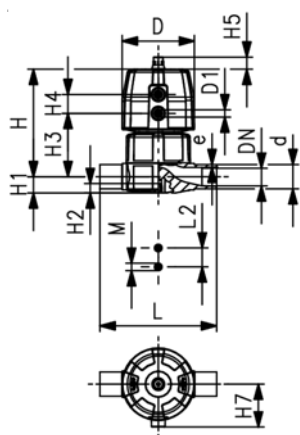
PROGEF Natural Diaphragm valve DIASTAR Ten DA (Double acting) With butt fusion spigots SDR11 metric

Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	PTFE Code	
20	15	10	125	168 655 112	168 655 132	
25	20	10	271	168 655 113	168 655 133	
32	25	10	481	168 655 114	168 655 134	
40	32	10	759	168 655 115	168 655 135	
50	40	10	1263	168 655 116	168 655 136	
63	50	10	1728	168 655 117	168 655 137	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.9	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	3.7	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	4.6	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	5.8	

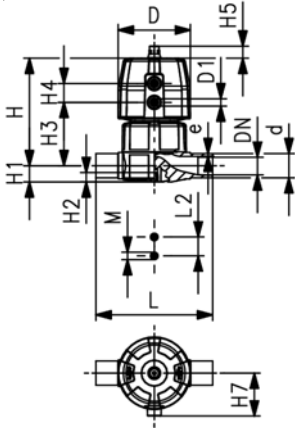
PROGEF Natural

PROGEF Natural

Diaphragm valve DIASTAR Sixteen

FC (Fail safe to close)

With butt fusion spigots SDR11 metric



Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE Code										
20	15	10	125	168 635 112	168 635 132										
25	20	10	271	168 635 113	168 635 133										
32	25	10	481	168 635 114	168 635 134										
40	32	10	759	168 635 115	168 635 135										
50	40	10	1263	168 635 116	168 635 136										
63	50	10	1728	168 635 117	168 635 137										

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	96	1/8	124	25	127	14	12	68	25	16	57	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	2.3	
32	120	1/8	154	25	167	22	12	93	26	26	69	M6	13	2.9	
40	150	1/4	174	45	196	26	15	101	36	26	88	M8	15	3.7	
50	180	1/4	194	45	239	32	15	124	37	26	103	M8	19	4.6	
63	180	1/4	224	45	251	39	15	137	37	26	103	M8	23	5.8	

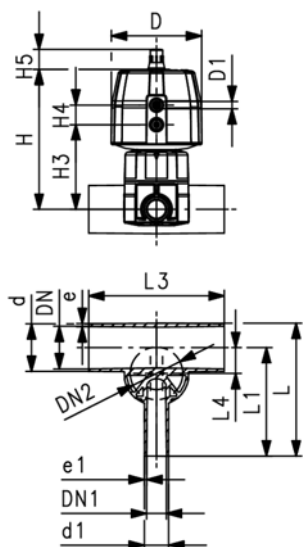
PROGEF Natural

PROGEF Natural

Diaphragm valve DIASTAR Sixteen

FC (Fail safe to close)

With butt fusion spigots SDR11 metric



Model:

- Material: PP-R unpigmented
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Smallest possible dead space

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	d1 [mm]	DN [mm]	DN1 [mm]	DN2 [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	PTFE/EPDM Code
20	20	15	15	15	10	57	168 639 101	168 639 301
25	20	20	15	20	10	89	168 639 103	168 639 303
25	25	20	20	20	10	118	168 639 104	168 639 304
32	20	25	15	20	10	80	168 639 107	168 639 307
32	25	25	20	20	10	105	168 639 108	168 639 308
32	32	25	25	25	10	231	168 639 109	168 639 309
40	20	32	15	25	10	85	168 639 112	168 639 312
50	20	40	15	20	10	86	168 639 118	168 639 318
50	25	40	20	25	10	160	168 639 119	168 639 319
50	32	40	25	25	10	206	168 639 120	168 639 320
63	20	50	15	20	10	84	168 639 125	168 639 325
63	25	50	20	25	10	150	168 639 126	168 639 326
63	32	50	25	25	10	184	168 639 127	168 639 327

d [mm]	D [mm]	D1 [inch]	L [mm]	L1 [mm]	L3 [mm]	L4 [mm]	H [mm]	H3 [mm]	H4 [mm]	H5 [mm]	Lift = Hx [mm]	e [mm]	e1 [mm]
20	96	1/8	117	96	162	12	130	71	25	16	7	1.9	1.9
25	96	1/8	133	108	162	16	131	72	25	16	10	2.3	1.9
25	96	1/8	133	108	162	16	131	72	25	16	10	2.3	2.3
32	96	1/8	142	120	162	19	135	76	25	16	10	2.9	1.9
32	96	1/8	142	120	162	19	135	76	25	16	10	2.9	2.3
32	120	1/8	145	120	160	19	167	93	26	26	13	2.9	2.9
40	120	1/8	149	128	180	23	175	101	26	26	13	3.7	1.9
50	96	1/8	160	134	180	27	148	90	25	16	10	4.6	1.9
50	120	1/8	160	134	180	28	180	106	26	26	13	4.6	2.3
50	120	1/8	160	134	180	28	180	106	26	26	13	4.6	2.9
63	96	1/8	177	144	180	33	155	96	25	16	10	5.8	1.9
63	120	1/8	177	144	180	35	187	113	26	26	13	5.8	2.3
63	120	1/8	177	144	180	35	187	113	26	26	13	5.8	2.9

SYGEF Standard metric

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SYGEF Standard metric

Ball valves electric

SYGEF Standard

Ball valve type 107 100-230V

With manual emergency override

With fusion sockets metric



DN10/15 - 50

Model:

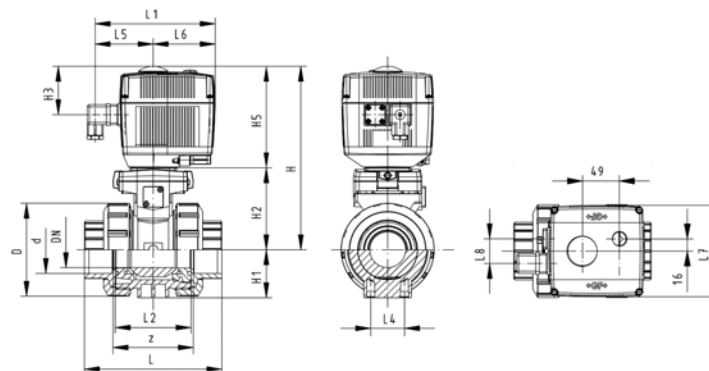
- Material: PVDF
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 107 802
20	15	10	185	199 107 803
25	20	10	350	199 107 804
32	25	10	700	199 107 805
40	32	10	1000	199 107 806
50	40	10	1600	199 107 807
63	50	10	3100	199 107 808

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	200	27	64	64	137	92	161	56	25	79	83	122	67	64
20	50	200	27	64	64	137	95	161	56	25	79	83	122	67	64
25	58	209	30	73	64	137	110	161	65	25	79	83	122	67	72
32	68	209	36	73	64	137	123	161	71	25	79	83	122	67	79
40	84	220	44	84	64	137	146	161	85	45	79	83	122	67	94
50	97	220	51	84	64	137	157	161	89	45	79	83	122	67	95
63	124	243	64	106	64	137	183	161	101	45	79	83	122	67	107



SYGEF Standard metric

SYGEF Standard Ball valve type 107 100-230V With manual emergency override With socket fusion spigots metric



Model:

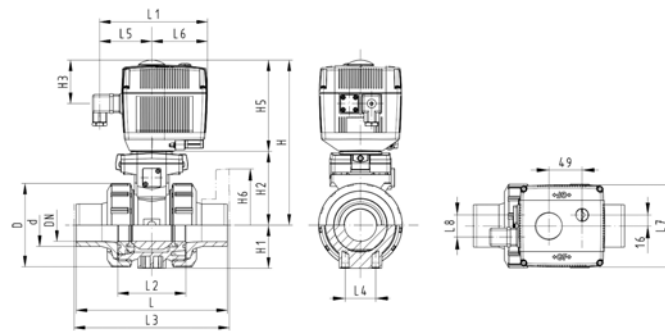
- Material: PVDF
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
16	10	10	70	199 107 812	
20	15	10	185	199 107 813	
25	20	10	350	199 107 814	
32	25	10	700	199 107 815	
40	32	10	1000	199 107 816	
50	40	10	1600	199 107 817	
63	50	10	3100	199 107 818	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	200	27	64	64	137	114	161	56	0	25	79	83	122	67
20	50	200	27	64	64	137	124	161	56	130	25	79	83	122	67
25	58	209	30	73	64	137	144	161	65	150	25	79	83	122	67
32	68	209	36	73	64	137	154	161	71	160	25	79	83	122	67
40	84	220	44	84	64	137	174	161	85	180	45	79	83	122	67
50	97	220	51	84	64	137	194	161	89	200	45	79	83	122	67
63	124	243	64	106	64	137	224	161	101	230	45	79	83	122	67



SYGEF Standard metric

SYGEF Standard

Ball valve type 107 100-230V

With manual emergency override

With butt fusion spigots IR-Plus metric



Model:

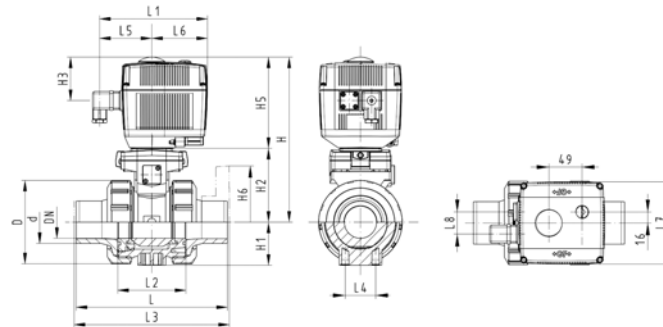
- Material: PVDF
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	10	185	199 107 423
25	20	10	350	199 107 424
32	25	10	700	199 107 425
40	32	10	1000	199 107 426
50	40	10	1600	199 107 427
63	50	10	3100	199 107 428

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
20	50	200	27	64	64	137	130	161	56	25	79	83	122	67
25	58	209	30	73	64	137	143	161	65	25	79	83	122	67
32	68	209	36	73	64	137	150	161	71	25	79	83	122	67
40	84	220	44	84	64	137	171	161	85	45	79	83	122	67
50	97	220	51	84	64	137	191	161	89	45	79	83	122	67
63	124	243	64	106	64	137	220	161	101	45	79	83	122	67



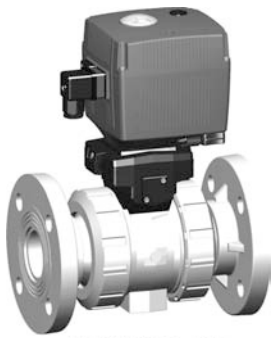
SYGEF Standard metric

SYGEF Standard

Ball valve type 107 100-230V

With manual emergency override

With fixed flanges PVDF serrated metric



DN10/15 - 50

Model:

- Material: PVDF
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

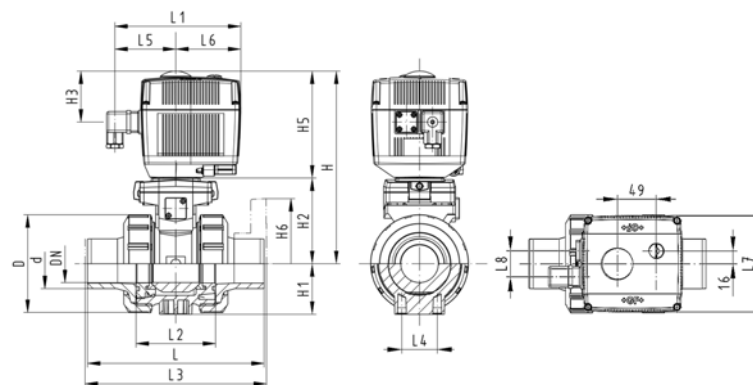
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
20	15	½	10	185	199 107 843
25	20	¾	10	350	199 107 844
32	25	1	10	700	199 107 845
40	32	1 ¼	10	1000	199 107 846
50	40	1 ½	10	1600	199 107 847
63	50	2	10	3100	199 107 848

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	201	27	64	65	138	48	124	160	56	130	25	77	83	122
25	58	210	30	73	65	138	53	144	160	65	150	25	77	83	122
32	68	210	36	73	65	138	58	154	160	71	160	25	77	83	122
40	84	221	44	84	65	138	70	174	160	85	180	45	77	83	122
50	97	221	51	84	65	138	75	194	160	89	200	45	77	83	122
63	124	244	64	106	65	138	83	224	160	101	230	45	77	83	122

d [mm]	L8 [mm]
20	33
25	33
32	33
40	33
50	33
63	33



SYGEF Standard metric

SYGEF Standard

Ball valve type 107 24V

With manual emergency override

With fusion sockets metric



DN10/15 - 50

Model:

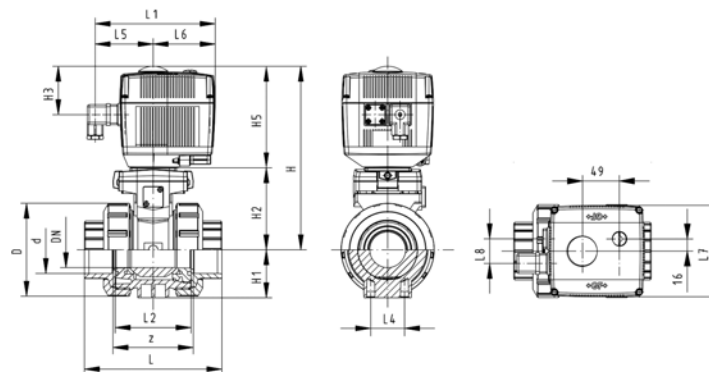
- Material: PVDF
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 107 822
20	15	10	185	199 107 823
25	20	10	350	199 107 824
32	25	10	700	199 107 825
40	32	10	1000	199 107 826
50	40	10	1600	199 107 827
63	50	10	3100	199 107 828

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
16	50	200	27	64	64	137	92	161	56	25	79	83	122	67	64
20	50	200	27	64	64	137	95	161	56	25	79	83	122	67	64
25	58	209	30	73	64	137	110	161	65	25	79	83	122	67	72
32	68	209	36	73	64	137	123	161	71	25	79	83	122	67	79
40	84	220	44	84	64	137	146	161	85	45	79	83	122	67	94
50	97	220	51	84	64	137	157	161	89	45	79	83	122	67	95
63	124	243	64	106	64	137	183	161	101	45	79	83	122	67	107



SYGEF Standard metric

SYGEF Standard Ball valve type 107 24V With manual emergency override With socket fusion spigots metric



Model:

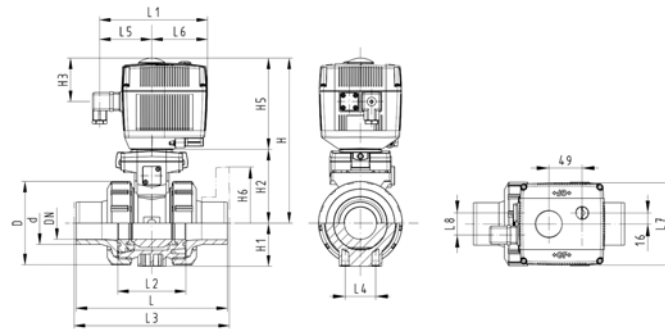
- Material: PVDF
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 107 832
20	15	10	185	199 107 833
25	20	10	350	199 107 834
32	25	10	700	199 107 835
40	32	10	1000	199 107 836
50	40	10	1600	199 107 837
63	50	10	3100	199 107 838

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	200	27	64	64	137	114	161	56	0	25	79	83	122	67
20	50	200	27	64	64	137	124	161	56	130	25	79	83	122	67
25	58	209	30	73	64	137	144	161	65	150	25	79	83	122	67
32	68	209	36	73	64	137	154	161	71	160	25	79	83	122	67
40	84	220	44	84	64	137	174	161	85	180	45	79	83	122	67
50	97	220	51	84	64	137	194	161	89	200	45	79	83	122	67
63	124	243	64	106	64	137	224	161	101	230	45	79	83	122	67



SYGEF Standard metric

SYGEF Standard

Ball valve type 107 24V

With manual emergency override

With butt fusion spigots IR-Plus metric



Model:

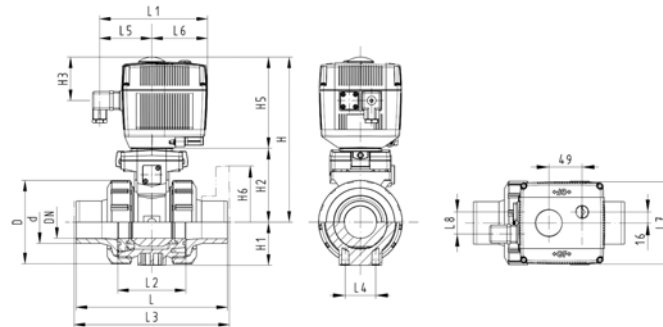
- Material: PVDF
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	10	185	199 107 433
25	20	10	350	199 107 434
32	25	10	700	199 107 435
40	32	10	1000	199 107 436
50	40	10	1600	199 107 437
63	50	10	3100	199 107 438

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
20	50	200	27	64	64	137	130	161	56	25	79	83	122	67
25	58	209	30	73	64	137	143	161	65	25	79	83	122	67
32	68	209	36	73	64	137	150	161	71	25	79	83	122	67
40	84	220	44	84	64	137	171	161	85	45	79	83	122	67
50	97	220	51	84	64	137	191	161	89	45	79	83	122	67
63	124	243	64	106	64	137	220	161	101	45	79	83	122	67



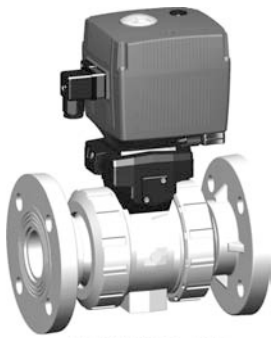
SYGEF Standard metric

SYGEF Standard

Ball valve type 107 24V

With manual emergency override

With fixed flanges PVDF serrated metric



DN10/15 - 50

Model:

- Material: PVDF
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

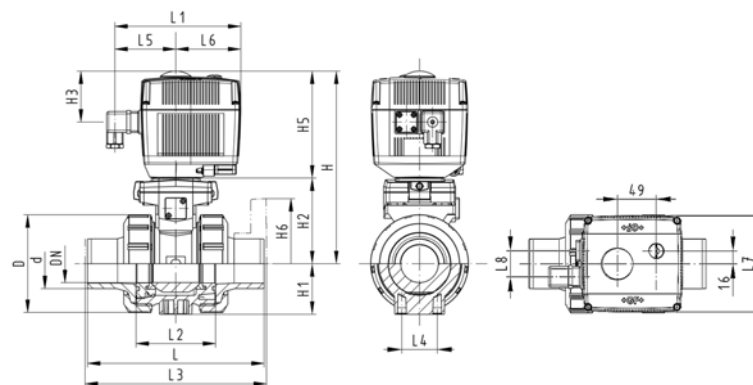
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
20	15	½	10	185	199 107 853
25	20	¾	10	350	199 107 854
32	25	1	10	700	199 107 855
40	32	1 ¼	10	1000	199 107 856
50	40	1 ½	10	1600	199 107 857
63	50	2	10	3100	199 107 858

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	201	27	64	65	138	48	124	160	56	130	25	77	83	122
25	58	210	30	73	65	138	53	144	160	65	150	25	77	83	122
32	68	210	36	73	65	138	58	154	160	71	160	25	77	83	122
40	84	221	44	84	65	138	70	174	160	85	180	45	77	83	122
50	97	221	51	84	65	138	75	194	160	89	200	45	77	83	122
63	124	244	64	106	65	138	83	224	160	101	230	45	77	83	122

d [mm]	L8 [mm]
20	33
25	33
32	33
40	33
50	33
63	33



SYGEF Standard metric

SYGEF Standard

Ball valve type 132 100-230V

With manual emergency override

With fusion sockets metric

Model:

- Material: PVDF
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)

Option:

- Individual configuration of the valve (see diagram)

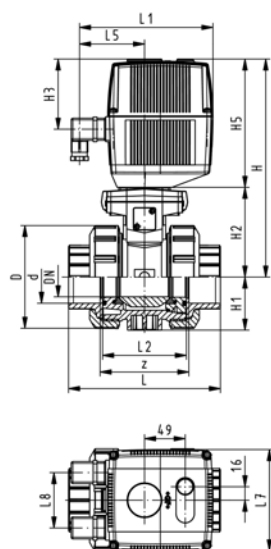


DN10/15 - 50

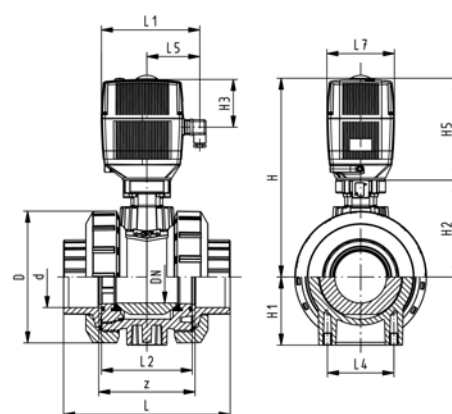


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 132 012
20	15	10	185	199 132 013
25	20	10	350	199 132 014
32	25	10	700	199 132 015
40	32	10	1000	199 132 016
50	40	10	1600	199 132 017
63	50	10	3100	199 132 018
75	65	10	5000	199 132 019
90	80	10	7000	199 132 020
110	100	10	11000	199 132 021

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
16	50	231	27	64	94	167	92	180	56	25	97	122	64
20	50	231	27	64	94	167	95	180	56	25	97	122	64
25	58	240	30	73	94	167	110	180	65	25	97	122	72
32	68	240	36	73	94	167	123	180	71	25	97	122	79
40	84	251	44	84	94	167	146	180	85	45	97	122	94
50	97	251	51	84	94	167	157	180	89	45	97	122	95
63	124	273	64	106	94	167	183	180	101	45	97	122	107
75	166	346	85	156	94	190	233	180	136	70	98	122	167
90	200	358	105	168	94	190	254	180	141	70	98	122	180
110	238	365	123	175	94	190	301	180	164	120	98	122	215



DN10/15-50



DN65-100

SYGEF Standard metric

SYGEF Standard Ball valve type 132 100-230V With manual emergency override With socket fusion spigots metric



Model:

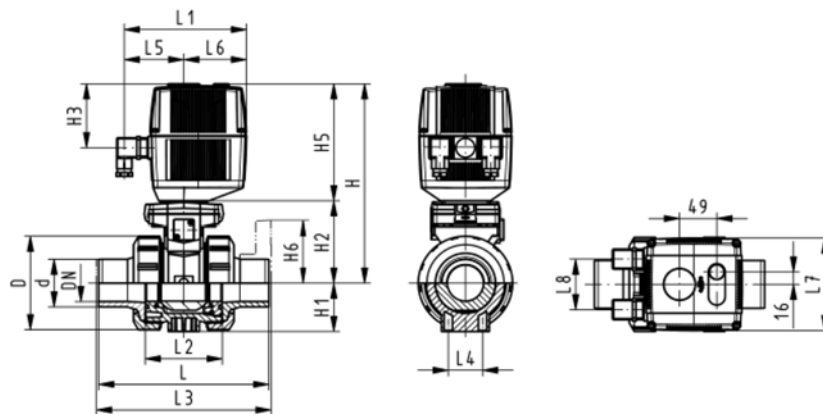
- Material: PVDF
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Built on with electric actuator EA21
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 132 032
20	15	10	185	199 132 033
25	20	10	350	199 132 034
32	25	10	700	199 132 035
40	32	10	1000	199 132 036
50	40	10	1600	199 132 037
63	50	10	3100	199 132 038

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	231	27	64	94	167	114	180	56	130	25	97	83	122	66
20	50	231	27	64	94	167	124	180	56	130	25	97	83	122	66
25	58	240	30	73	94	167	144	180	65	150	25	97	83	122	66
32	68	240	36	73	94	167	154	180	71	160	25	97	83	122	66
40	84	251	44	84	94	167	174	180	85	180	45	97	83	122	66
50	97	251	51	84	94	167	194	180	89	200	45	97	83	122	66
63	124	273	64	106	94	167	224	180	101	230	45	97	83	122	66



SYGEF Standard metric

SYGEF Standard

Ball valve type 132 100-230V

With manual emergency override

With butt fusion spigots IR-Plus metric

Model:

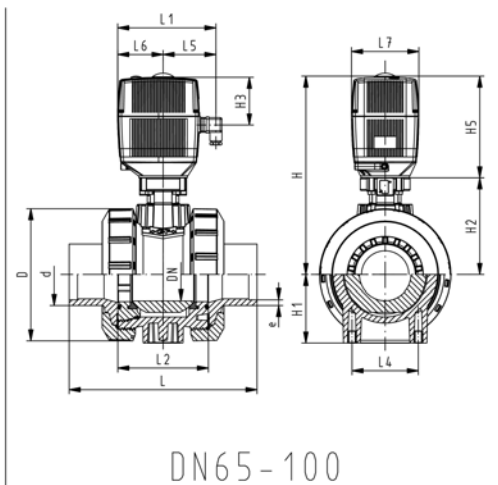
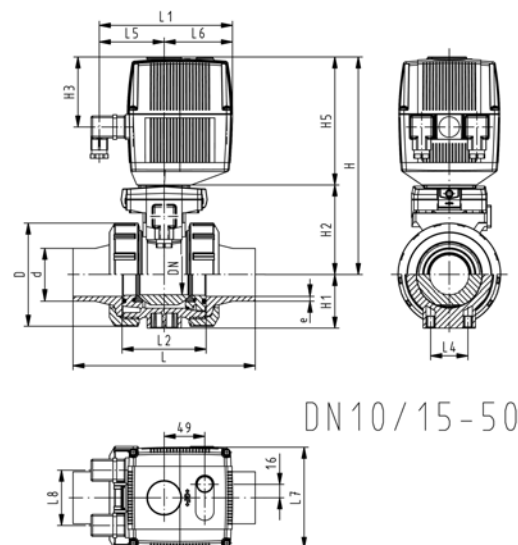
- Material: PVDF
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	10	185	199 132 113
25	20	10	350	199 132 114
32	25	10	700	199 132 115
40	32	10	1000	199 132 116
50	40	10	1600	199 132 117
63	50	10	3100	199 132 118
75	65	10	5000	199 132 119
90	80	10	7000	199 132 120
110	100	10	11000	199 132 121

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	e [mm]
20	50	231	27	64	94	167	130	180	56	25	97	122	1.9
25	58	240	30	73	94	167	143	180	65	25	97	122	1.9
32	68	240	36	73	94	167	150	180	71	25	97	122	2.4
40	84	251	44	84	94	167	171	180	85	45	97	122	2.4
50	97	251	51	84	94	167	191	180	89	45	97	122	3.0
63	124	273	64	106	94	167	220	180	101	45	97	122	3.0
75	166	346	85	156	94	190	266	180	136	70	98	122	3.6
90	200	358	105	168	94	190	264	180	141	70	98	122	4.3
110	238	365	123	175	94	190	301	180	164	70	98	122	5.3



SYGEF Standard metric

SYGEF Standard

Ball valve type 132 100-230V

With manual emergency override

With backing flanges PP-st metric



Model:

- Material: PVDF
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

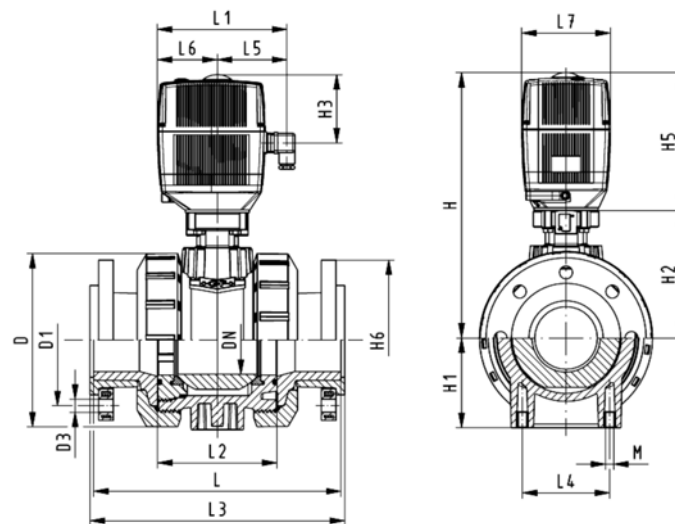
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
75	65	2 ½	10	5000	199 132 169
90	80	3	10	7000	199 132 170
110	100	4	10	11000	199 132 171

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
75	166	346	85	156	94	190	93	280	180	136	290	70	98	83
90	200	358	105	168	94	190	100	296	180	141	310	70	98	83
110	238	365	123	175	94	190	110	336	180	164	350	120	98	83

d [mm]	L7 [mm]	L8 [mm]
75	122	66
90	122	66
110	122	66



SYGEF Standard metric

SYGEF Standard

Ball valve type 132 100-230V

With manual emergency override

With fixed flanges PVDF serrated metric



DN10/15 - 50

Model:

- Material: PVDF
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Built on with electric actuator EA21
- Control time 5 s/90°<
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- Overall length EN 558

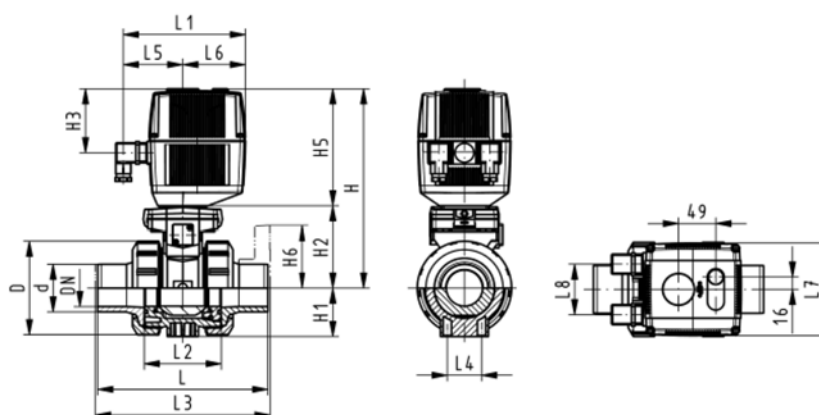
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	½	10	185	199 132 083
25	20	¾	10	350	199 132 084
32	25	1	10	700	199 132 085
40	32	1 ¼	10	1000	199 132 086
50	40	1 ½	10	1600	199 132 087
63	50	2	10	3100	199 132 088

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	27	64	94	167	48	124	180	56	130	25	98	83	122
25	58	240	30	73	94	167	53	144	180	65	150	25	97	83	122
32	68	240	36	73	94	167	58	154	180	71	160	25	97	83	122
40	84	251	44	84	94	167	70	174	180	85	180	45	97	83	122
50	97	251	51	84	94	167	75	194	180	89	200	45	98	83	122
63	124	273	64	106	94	167	83	224	180	101	230	45	97	83	122

d [mm]	L8 [mm]
20	66
25	66
32	66
40	66
50	66
63	66



SYGEF Standard metric

SYGEF Standard Ball valve type 132 100-230V With manual emergency override With threaded sockets NPT



DN10/15 - 50

Model:

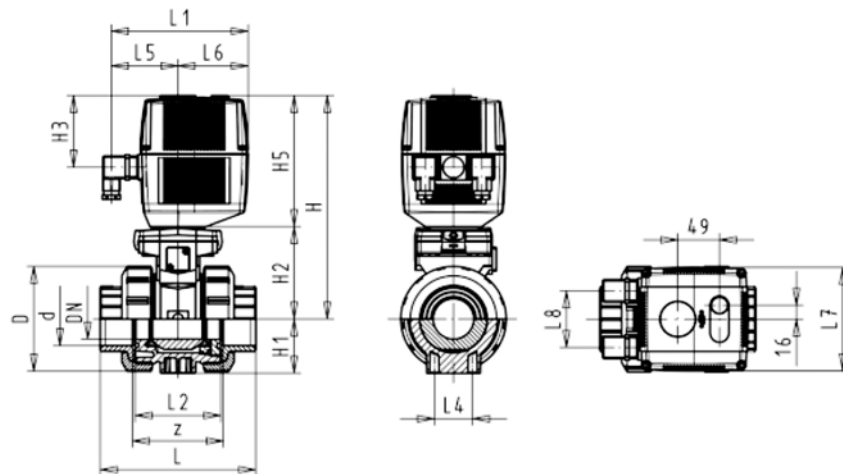
- Material: PVDF
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Built on with electric actuator EA21
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	70	199 132 412
1/2	15	10	185	199 132 413
3/4	20	10	350	199 132 414
1	25	10	700	199 132 415
1 1/4	32	10	1000	199 132 416
1 1/2	40	10	1600	199 132 417
2	50	10	3100	199 132 418

Inch	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
3/8	50	231	27	64	94	167	96	180	56	25	97	83	122	66	69
1/2	50	231	27	64	94	167	99	180	56	25	97	83	122	66	64
3/4	58	240	30	73	94	167	111	180	65	25	97	83	122	66	76
1	68	240	36	73	94	167	127	180	71	25	97	83	122	66	83
1 1/4	84	251	44	84	94	167	146	180	85	45	97	83	122	66	101
1 1/2	97	251	51	84	94	167	157	180	89	45	97	83	122	66	111
2	124	273	64	106	94	167	183	180	101	45	97	83	122	66	135



SYGEF Standard metric

SYGEF Standard

Ball valve type 132 24V

With manual emergency override

With fusion sockets metric

Model:

- Material: PVDF
- Voltage 24 V AC/DC
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

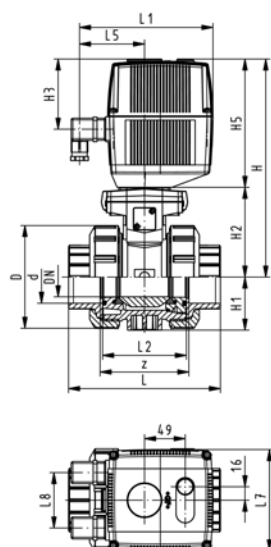


DN10/15 - 50

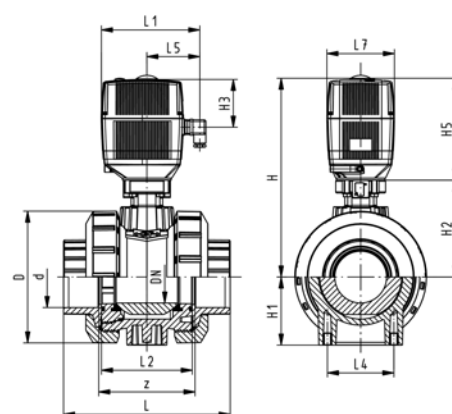


d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 132 052
20	15	10	185	199 132 053
25	20	10	350	199 132 054
32	25	10	700	199 132 055
40	32	10	1000	199 132 056
50	40	10	1600	199 132 057
63	50	10	3100	199 132 058
75	65	10	5000	199 132 059
90	80	10	7000	199 132 060
110	100	10	11000	199 132 061

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	z [mm]
16	50	231	27	64	94	167	92	180	56	25	97	122	64
20	50	231	27	64	94	167	95	180	56	25	97	122	64
25	58	240	30	73	94	167	110	180	65	25	97	122	72
32	68	240	36	73	94	167	123	180	71	25	97	122	79
40	84	251	44	84	94	167	146	180	85	45	97	122	94
50	97	251	51	84	94	167	157	180	89	45	97	122	95
63	124	273	64	106	94	167	183	180	101	45	97	122	107
75	166	346	85	156	94	190	233	180	136	70	98	122	167
90	200	358	105	168	94	190	254	180	141	70	98	122	180
110	238	365	123	172	94	190	301	180	164	120	98	122	215



DN10/15-50



DN65-100

SYGEF Standard metric

SYGEF Standard

Ball valve type 132 24V

With manual emergency override

With socket fusion spigots metric



Model:

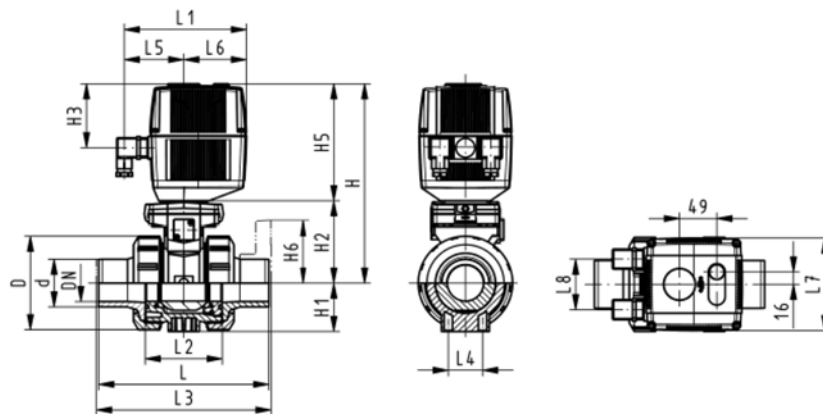
- Material: PVDF
- Voltage 24 V AC/DC
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Built on with electric actuator EA21
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 132 072
20	15	10	185	199 132 073
25	20	10	350	199 132 074
32	25	10	700	199 132 075
40	32	10	1000	199 132 076
50	40	10	1600	199 132 077
63	50	10	3100	199 132 078

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]
16	50	231	27	64	94	167	114	180	56	130	25	97	83	122	66
20	50	231	27	64	94	167	124	180	56	130	25	97	83	122	66
25	58	240	30	73	94	167	144	180	65	150	25	97	83	122	66
32	68	240	36	73	94	167	154	180	71	160	25	97	83	122	66
40	84	251	44	84	94	167	174	180	85	180	45	97	83	122	66
50	97	251	51	84	94	167	194	180	89	200	45	97	83	122	66
63	124	273	64	106	94	167	224	180	101	230	45	97	83	122	66



SYGEF Standard metric

SYGEF Standard

Ball valve type 132 24V

With manual emergency override

With butt fusion spigots IR-Plus metric

Model:

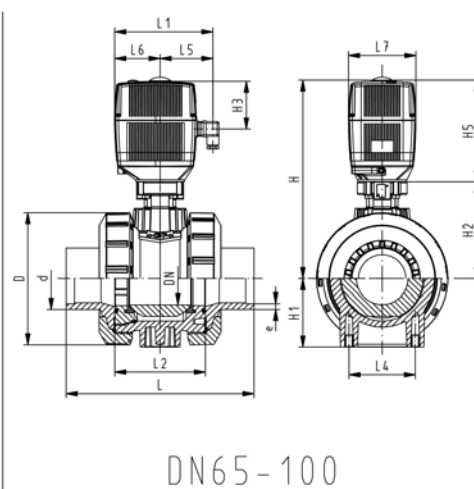
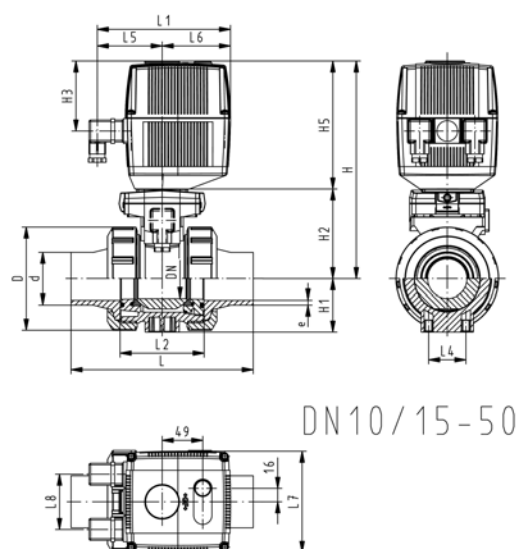
- Material: PVDF
- Voltage 24 V AC/DC
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	10	185	199 132 153
25	20	10	350	199 132 154
32	25	10	700	199 132 155
40	32	10	1000	199 132 156
50	40	10	1600	199 132 157
63	50	10	3100	199 132 158
75	65	10	5000	199 132 159
90	80	10	7000	199 132 160
110	100	10	11000	199 132 161

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L7 [mm]	e [mm]
20	50	231	27	64	94	167	130	180	56	25	97	122	1.9
25	58	240	30	73	94	167	143	180	65	25	97	122	1.9
32	68	240	36	73	94	167	150	180	71	25	97	122	2.4
40	84	251	44	84	94	167	171	180	85	45	97	122	2.4
50	97	251	51	84	94	167	191	180	89	45	97	122	3.0
63	124	273	64	106	94	167	220	180	101	45	97	122	3.0
75	166	346	85	156	94	190	266	180	136	70	98	122	3.6
90	200	358	105	168	94	190	264	180	141	70	98	122	4.3
110	238	365	123	175	94	190	301	180	164	120	98	122	5.3



SYGEF Standard metric

SYGEF Standard

Ball valve type 132 24V

With manual emergency override

With backing flanges PP-st metric



Model:

- Material: PVDF
- Voltage 24 V AC/DC
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- Control time: EA21: 5s/90°<, EA31: 15s/90°<
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

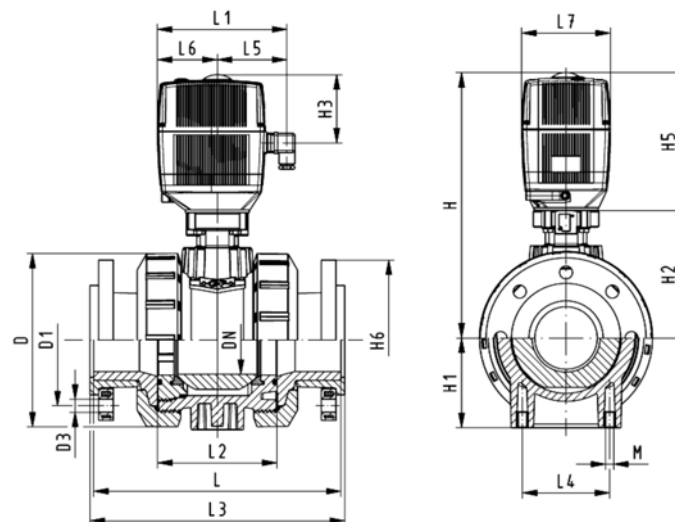
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
75	65	2 ½	10	5000	199 132 179
90	80	3	10	7000	199 132 180
110	100	4	10	11000	199 132 181

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
75	166	346	85	156	94	190	93	280	180	136	290	70	98	83
90	200	358	105	168	94	190	100	296	180	141	310	70	98	83
110	238	365	123	175	94	190	110	336	180	164	350	120	98	83

d [mm]	L7 [mm]	L8 [mm]
75	122	66
90	122	66
110	122	66



SYGEF Standard metric

SYGEF Standard

Ball valve type 132 24V

With manual emergency override

With fixed flanges PVDF serrated metric



DN10/15 - 50

Model:

- Material: PVDF
- Voltage 24 V AC/DC
- Control range 90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Built on with electric actuator EA21
- Control time 5 s/90°<)
- Overall length EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

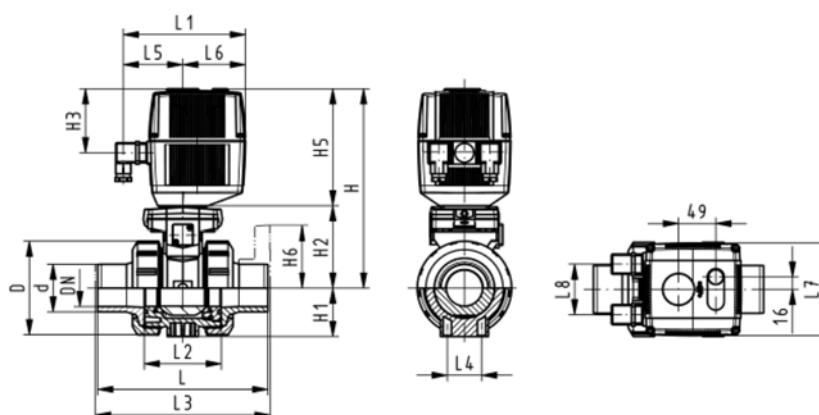
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	½	10	185	199 132 093
25	20	¾	10	350	199 132 094
32	25	1	10	700	199 132 095
40	32	1 ¼	10	1000	199 132 096
50	40	1 ½	10	1600	199 132 097
63	50	2	10	3100	199 132 098

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	27	64	94	167	48	124	180	56	130	25	98	83	122
25	58	240	30	73	94	167	53	144	180	65	150	25	97	83	122
32	68	240	36	73	94	167	58	154	180	71	160	25	97	83	122
40	84	251	44	84	94	167	70	174	180	85	180	45	97	83	122
50	97	251	51	84	94	167	75	194	180	89	200	45	98	83	122
63	124	273	64	106	94	167	83	224	180	101	230	45	97	83	122

d [mm]	L8 [mm]
20	66
25	66
32	66
40	66
50	66
63	66



SYGEF Standard metric

SYGEF Standard

Ball valve type 132 24V

With manual emergency override

With threaded sockets NPT



DN10/15 - 50

Model:

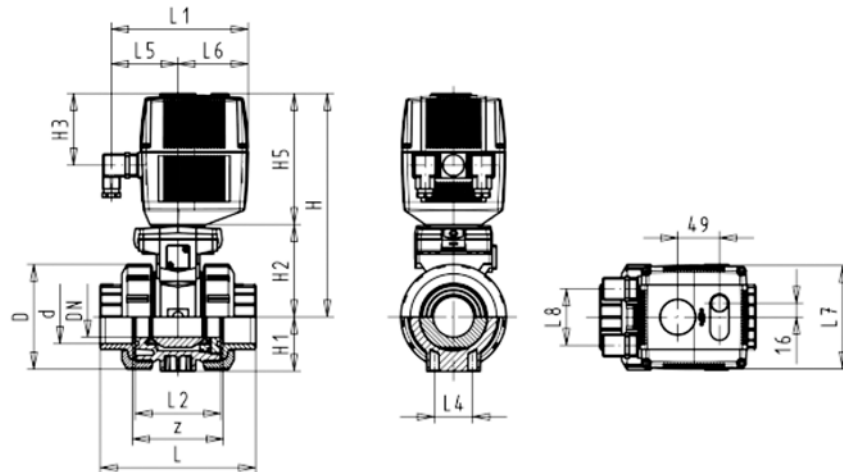
- Material: PVDF
- Voltage 24 V AC/DC
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Built on with electric actuator EA21
- Control time 5 s/90°<

Option:

- Individual configuration of the valve (see diagram)

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	70	199 132 432
1/2	15	10	185	199 132 433
3/4	20	10	350	199 132 434
1	25	10	700	199 132 435
1 1/4	32	10	1000	199 132 436
1 1/2	40	10	1600	199 132 437
2	50	10	3100	199 132 438

Inch	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	L8 [mm]	z [mm]
3/8	50	231	27	64	94	167	96	180	56	25	97	83	122	66	69
1/2	50	231	27	64	94	167	99	180	56	25	97	83	122	66	64
3/4	58	240	30	73	94	167	111	180	65	25	97	83	122	66	76
1	68	240	36	73	94	167	127	180	71	25	97	83	122	66	83
1 1/4	84	251	44	84	94	167	146	180	85	45	97	83	122	66	101
1 1/2	97	251	51	84	94	167	157	180	89	45	97	83	122	66	111
2	124	273	64	106	94	167	183	180	101	45	97	83	122	66	135



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

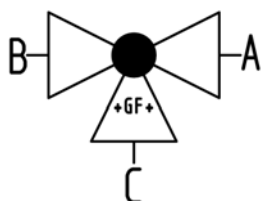
Horizontal/L-port 100-230V

With manual emergency override

With fusion sockets metric

Model:

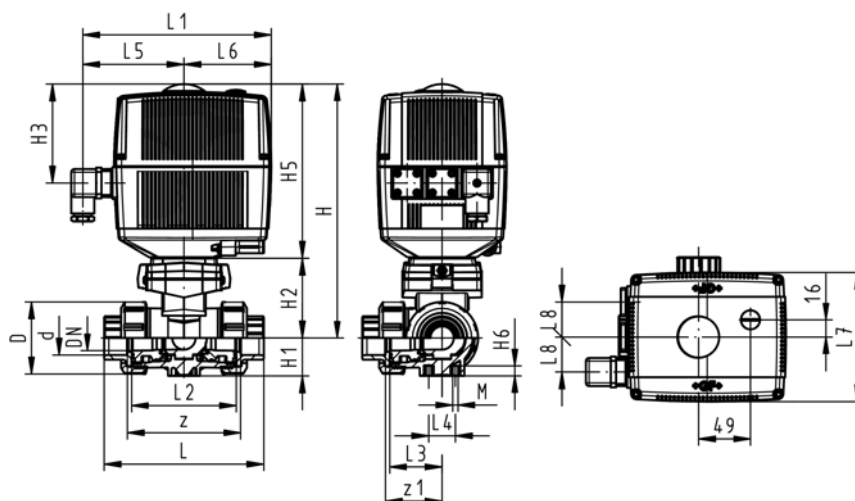
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
16	10	10	50	199 187 092
20	15	10	75	199 187 093
25	20	10	150	199 187 094
32	25	10	280	199 187 095
40	32	10	480	199 187 096
50	40	10	620	199 187 097
63	50	10	1230	199 187 098

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	110	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	82	41
20	33	6	82	41
25	33	6	97	49
32	33	6	110	55
40	33	8	132	66
50	33	8	151	76
63	33	8	188	94



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

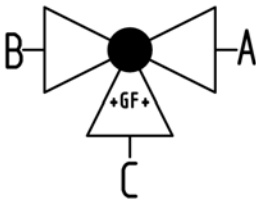
Horizontal/L-port 100-230V

With manual emergency override

With threaded sockets NPT

Model:

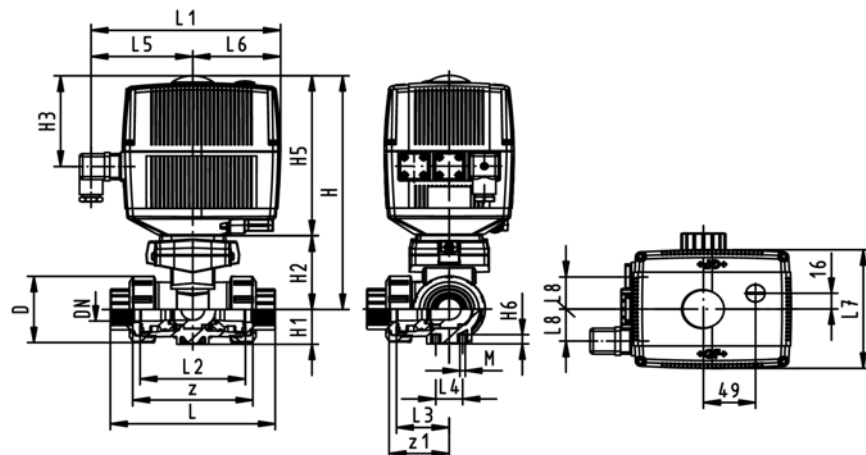
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



NPT [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	50	199 187 242
1/2	15	10	75	199 187 243
3/4	20	10	150	199 187 244
1	25	10	280	199 187 245
1 1/4	32	10	480	199 187 246
1 1/2	40	10	620	199 187 247
2	50	10	1230	199 187 248

NPT [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
3/8	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
1/2	50	231	28	64	94	167	8	114	180	72	36	25	97	83	122
3/4	58	240	32	73	94	167	8	131	180	85	43	25	97	83	122
1	68	240	36	73	94	167	8	154	180	98	49	25	97	83	122
1 1/4	84	251	45	84	94	167	9	180	180	118	59	45	97	83	122
1 1/2	97	251	51	84	94	167	9	203	180	135	68	45	97	83	122
2	124	273	65	106	94	167	9	258	180	176	88	45	97	83	122

NPT [inch]	L8 [mm]	M	z [mm]	z1 [mm]
3/8	33	6	86	43
1/2	33	6	80	40
3/4	33	6	95	48
1	33	6	110	55
1 1/4	33	8	132	66
1 1/2	33	8	157	79
2	33	8	210	105



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

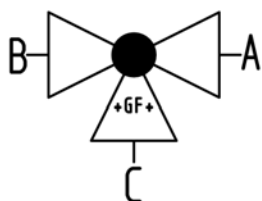
Horizontal/L-port 100-230V

With manual emergency override

With socket fusion spigots metric

Model:

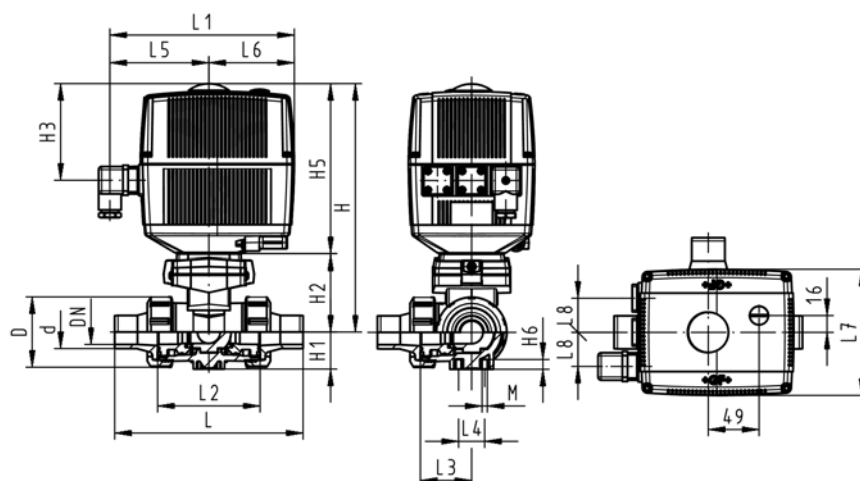
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
16	10	10	50	199 187 012
20	15	10	75	199 187 013
25	20	10	150	199 187 014
32	25	10	280	199 187 015
40	32	10	480	199 187 016
50	40	10	620	199 187 017
63	50	10	1230	199 187 018

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	126	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	136	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	159	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



SYGEF Standard metric

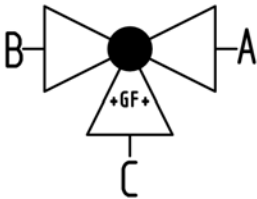
SYGEF Standard

3-Way ball valve type 187

Horizontal/L-port 100-230V

With manual emergency override

With butt fusion spigots IR-Plus metric



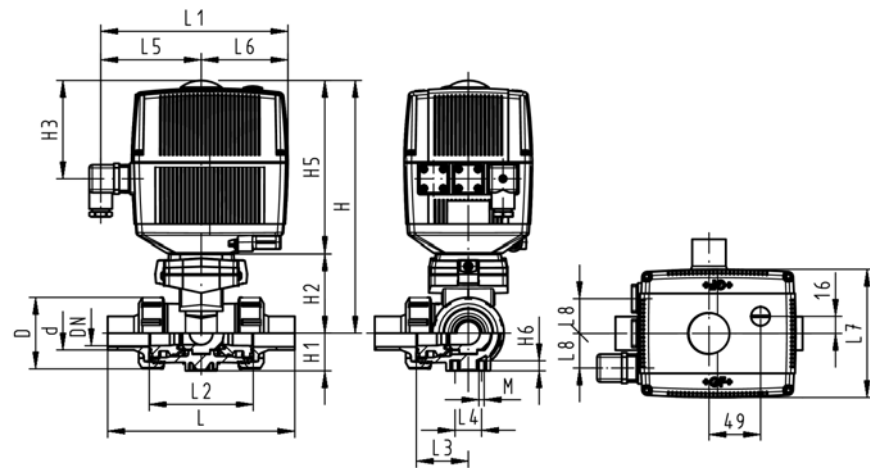
Model:

- Material: PVDF
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	10	75	199 187 053
25	20	10	150	199 187 054
32	25	10	280	199 187 055
40	32	10	480	199 187 056
50	40	10	620	199 187 057
63	50	10	1230	199 187 058

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	28	64	94	167	8	146	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	163	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

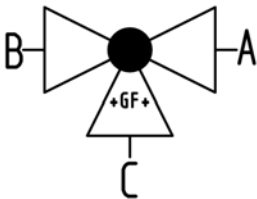
Horizontal/L-port 24V

With manual emergency override

With threaded sockets NPT

Model:

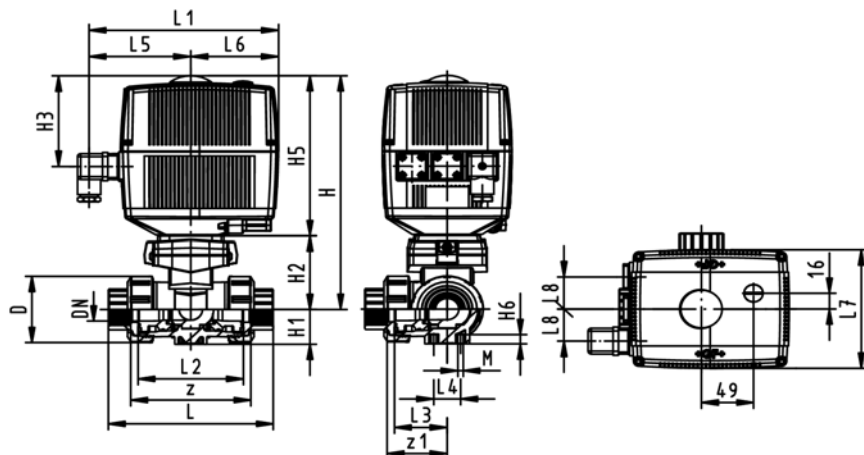
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



NPT [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	50	199 187 262
1/2	15	10	75	199 187 263
3/4	20	10	150	199 187 264
1	25	10	280	199 187 265
1 1/4	32	10	480	199 187 266
1 1/2	40	10	620	199 187 267
2	50	10	1230	199 187 268

NPT [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
3/8	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
1/2	50	231	28	64	94	167	8	114	180	72	36	25	97	83	122
3/4	58	240	32	73	94	167	8	131	180	85	43	25	97	83	122
1	68	240	36	73	94	167	8	154	180	98	49	25	97	83	122
1 1/4	84	251	45	84	94	167	9	180	180	118	59	45	97	83	122
1 1/2	97	251	51	84	94	167	9	203	180	135	68	45	97	83	122
2	124	273	65	106	94	167	9	258	180	176	88	45	97	83	122

NPT [inch]	L8 [mm]	M	z [mm]	z1 [mm]
3/8	33	6	86	43
1/2	33	6	80	40
3/4	33	6	95	48
1	33	6	110	55
1 1/4	33	8	132	66
1 1/2	33	8	157	79
2	33	8	210	105



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

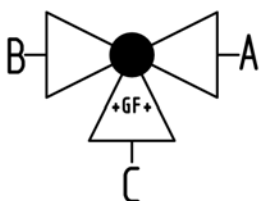
Horizontal/L-port 24V

With manual emergency override

With socket fusion spigots metric

Model:

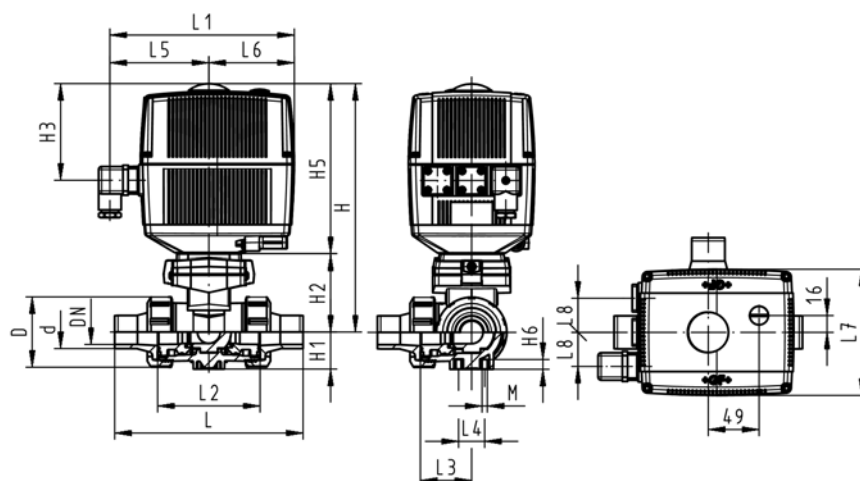
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
16	10	10	50	199 187 132
20	15	10	75	199 187 133
25	20	10	150	199 187 134
32	25	10	280	199 187 135
40	32	10	480	199 187 136
50	40	10	620	199 187 137
63	50	10	1230	199 187 138

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	126	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	136	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	159	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

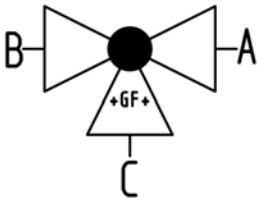
Horizontal/L-port 24V

With manual emergency override

With butt fusion spigots IR-Plus metric

Model:

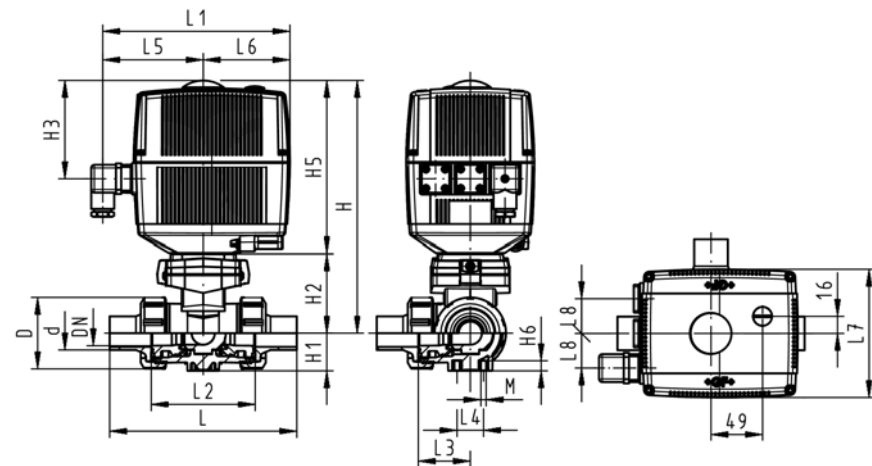
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
20	15	10	75	199 187 173
25	20	10	150	199 187 174
32	25	10	280	199 187 175
40	32	10	480	199 187 176
50	40	10	620	199 187 177
63	50	10	1230	199 187 178

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	28	64	94	167	8	146	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	163	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

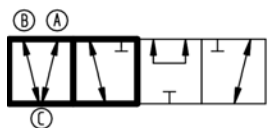
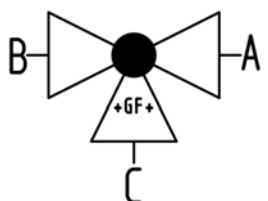
Horizontal/T-port 100-230V

With manual emergency override

With fusion sockets metric

Model:

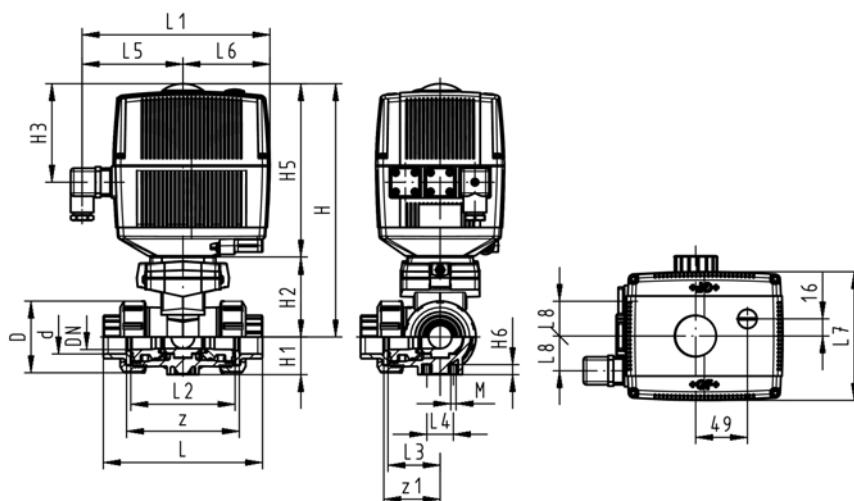
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
16	10	10	140	199 187 112
20	15	10	200	199 187 113
25	20	10	470	199 187 114
32	25	10	793	199 187 115
40	32	10	1290	199 187 116
50	40	10	1910	199 187 117
63	50	10	3100	199 187 118

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	110	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	82	41
20	33	6	82	41
25	33	6	97	49
32	33	6	110	55
40	33	8	132	66
50	33	8	151	76
63	33	8	188	94



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

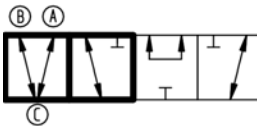
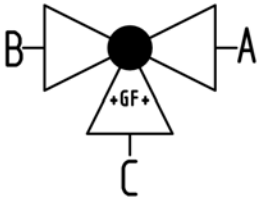
Horizontal/T-port 100-230V

With manual emergency override

With threaded sockets NPT

Model:

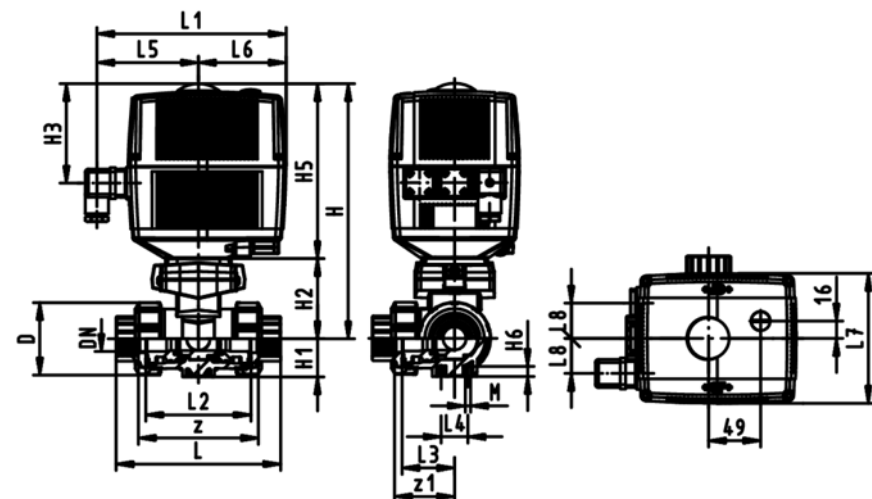
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



NPT [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	140	199 187 252
1/2	15	10	200	199 187 253
3/4	20	10	470	199 187 254
1	25	10	793	199 187 255
1 1/4	32	10	1290	199 187 256
1 1/2	40	10	1910	199 187 257
2	50	10	3100	199 187 258

NPT [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
3/8	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
1/2	50	231	28	64	94	167	8	114	180	72	36	25	97	83	122
3/4	58	240	32	73	94	167	8	131	180	85	43	25	97	83	122
1	68	240	36	73	94	167	8	154	180	98	49	25	97	83	122
1 1/4	84	251	45	84	94	167	9	180	180	118	59	45	97	83	122
1 1/2	97	251	51	84	94	167	9	203	180	135	68	45	97	83	122
2	124	273	65	106	94	167	9	258	180	176	88	45	97	83	122

NPT [inch]	L8 [mm]	M	z [mm]	z1 [mm]
3/8	33	6	86	43
1/2	33	6	80	40
3/4	33	6	95	48
1	33	6	110	55
1 1/4	33	8	132	66
1 1/2	33	8	157	79
2	33	8	210	105



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

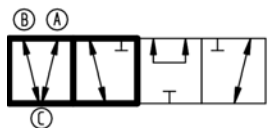
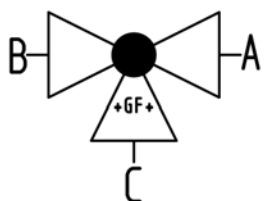
Horizontal/T-port 100-230V

With manual emergency override

With socket fusion spigots metric

Model:

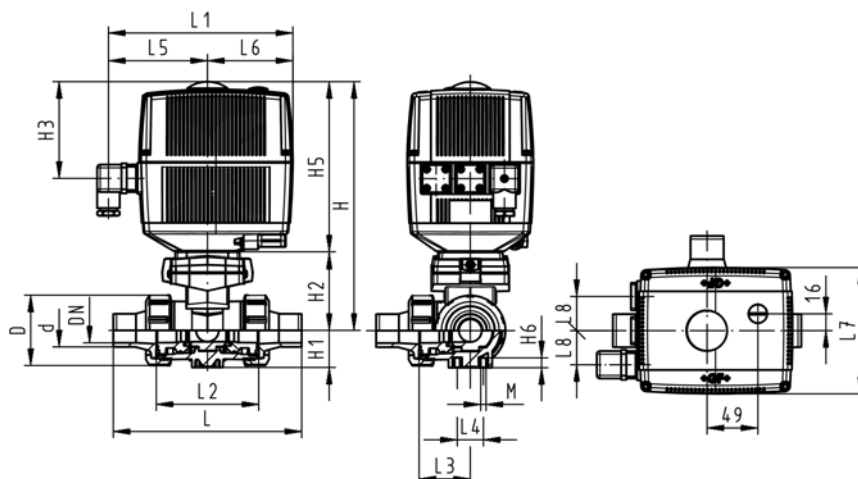
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
16	10	10	140	199 187 032
20	15	10	200	199 187 033
25	20	10	470	199 187 034
32	25	10	793	199 187 035
40	32	10	1290	199 187 036
50	40	10	1910	199 187 037
63	50	10	3100	199 187 038

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	126	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	136	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	159	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

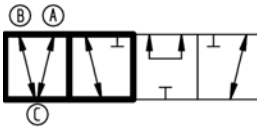
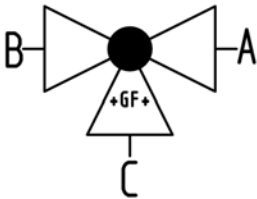
Horizontal/T-port 100-230V

With manual emergency override

With butt fusion spigots IR-Plus metric

Model:

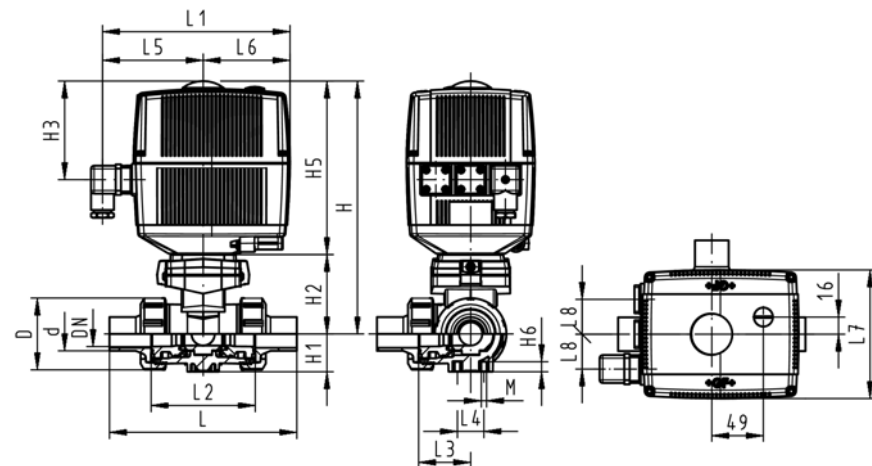
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
20	15	10	200	199 187 073
25	20	10	470	199 187 074
32	25	10	793	199 187 075
40	32	10	1290	199 187 076
50	40	10	1910	199 187 077
63	50	10	3100	199 187 078

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	28	64	94	167	8	146	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	163	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

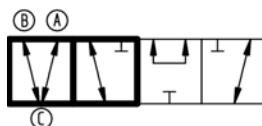
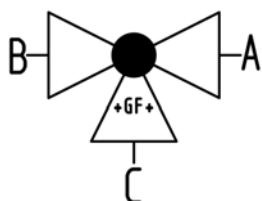
Horizontal/T-port 24V

With manual emergency override

With fusion sockets metric

Model:

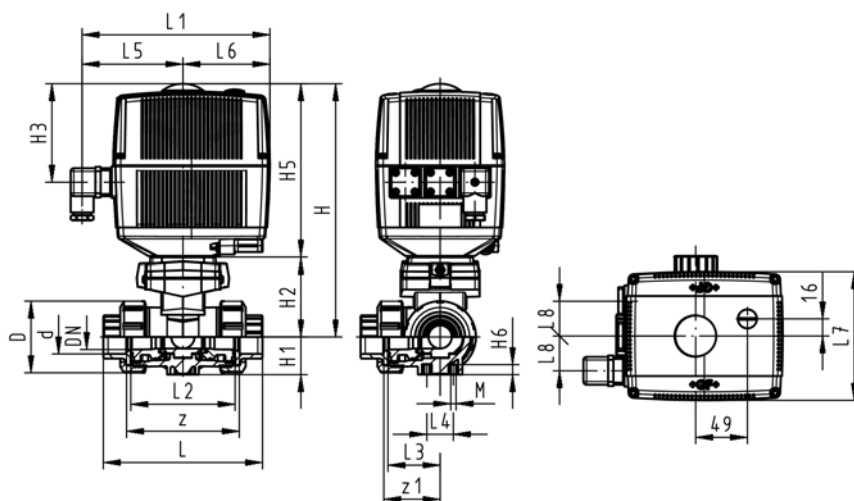
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	140	199 187 232
20	15	10	200	199 187 233
25	20	10	470	199 187 234
32	25	10	793	199 187 235
40	32	10	1290	199 187 236
50	40	10	1910	199 187 237
63	50	10	3100	199 187 238

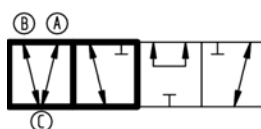
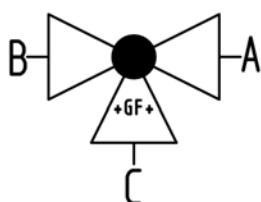
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	110	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	129	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	146	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	170	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	193	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	244	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M	z [mm]	z1 [mm]
16	33	6	82	41
20	33	6	82	41
25	33	6	97	49
32	33	6	110	55
40	33	8	132	66
50	33	8	151	76
63	33	8	188	94



SYGEF Standard metric

SYGEF Standard 3-Way ball valve type 187 Horizontal/T-port 24V With manual emergency override With threaded sockets NPT



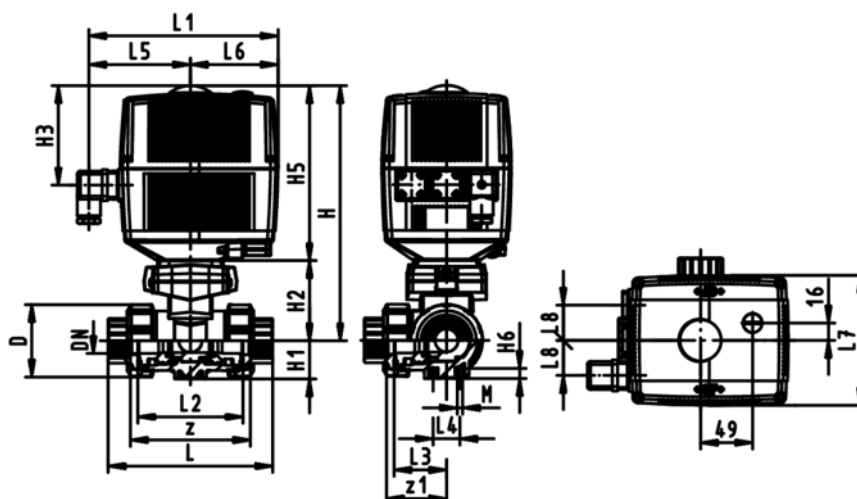
Model:

- Material: PVDF
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

NPT [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	140	199 187 272
1/2	15	10	200	199 187 273
3/4	20	10	470	199 187 274
1	25	10	793	199 187 275
1 1/4	32	10	1290	199 187 276
1 1/2	40	10	1910	199 187 277
2	50	10	3100	199 187 278

NPT [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
3/8	50	231	28	64	94	167	8	112	180	72	36	25	97	83	122
1/2	50	231	28	64	94	167	8	114	180	72	36	25	97	83	122
3/4	58	240	32	73	94	167	8	131	180	85	43	25	97	83	122
1	68	240	36	73	94	167	8	154	180	98	49	25	97	83	122
1 1/4	84	251	45	84	94	167	9	180	180	118	59	45	97	83	122
1 1/2	97	251	51	84	94	167	9	203	180	135	68	45	97	83	122
2	124	273	65	106	94	167	9	258	180	176	88	45	97	83	122

NPT [inch]	L8 [mm]	M [mm]	z [mm]	z1 [mm]
3/8	33	6	86	43
1/2	33	6	80	40
3/4	33	6	95	48
1	33	6	110	55
1 1/4	33	8	132	66
1 1/2	33	8	157	79
2	33	8	210	105



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

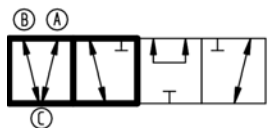
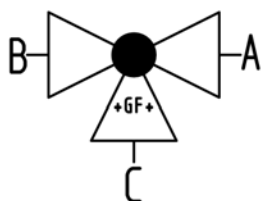
Horizontal/T-port 24V

With manual emergency override

With socket fusion spigots metric

Model:

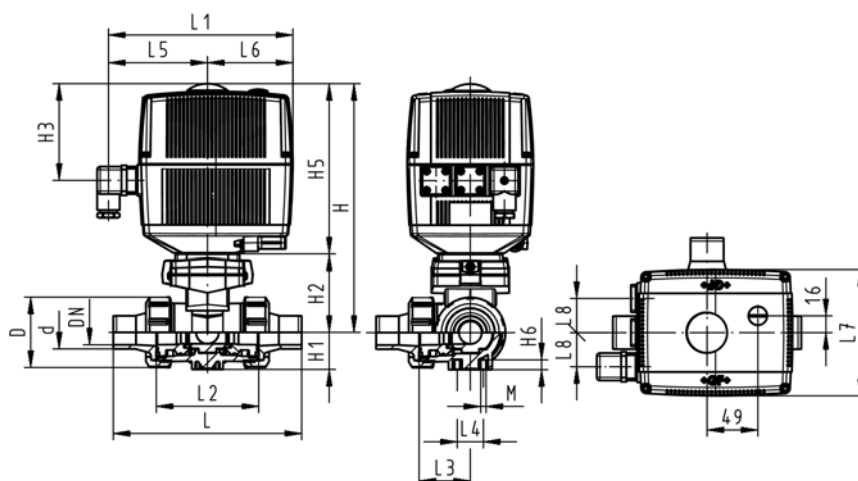
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
16	10	10	140	199 187 152
20	15	10	200	199 187 153
25	20	10	470	199 187 154
32	25	10	793	199 187 155
40	32	10	1290	199 187 156
50	40	10	1910	199 187 157
63	50	10	3100	199 187 158

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	231	28	64	94	167	8	126	180	72	36	25	97	83	122
20	50	231	28	64	94	167	8	136	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	159	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
16	33	6
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 187

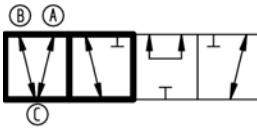
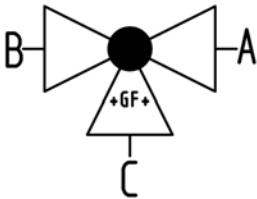
Horizontal/T-port 24V

With manual emergency override

With butt fusion spigots IR-Plus metric

Model:

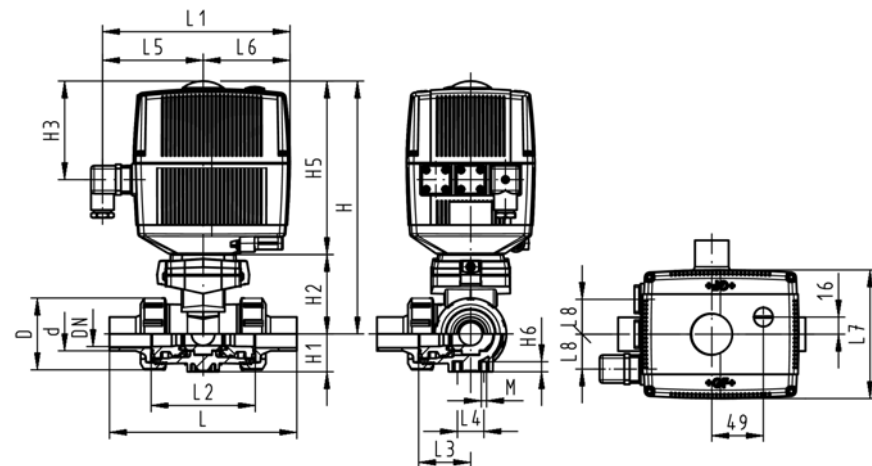
- Material: PVDF
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
20	15	10	200	199 187 193
25	20	10	470	199 187 194
32	25	10	793	199 187 195
40	32	10	1290	199 187 196
50	40	10	1910	199 187 197
63	50	10	3100	199 187 198

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	231	28	64	94	167	8	146	180	72	36	25	97	83	122
25	58	240	32	73	94	167	8	163	180	85	43	25	97	83	122
32	68	240	36	73	94	167	8	178	180	98	49	25	97	83	122
40	84	251	45	84	94	167	9	204	180	118	59	45	97	83	122
50	97	251	51	84	94	167	9	237	180	135	68	45	97	83	122
63	124	273	65	106	94	167	9	296	180	176	88	45	97	83	122

d [mm]	L8 [mm]	M
20	33	6
25	33	6
32	33	6
40	33	8
50	33	8
63	33	8



SYGEF Standard metric

Ball valves pneumatic

SYGEF Standard

Ball valve type 232

Function FC (Fail safe to close)

With manual override

With fusion Sockets metric



DN10/15 - 50

Model:

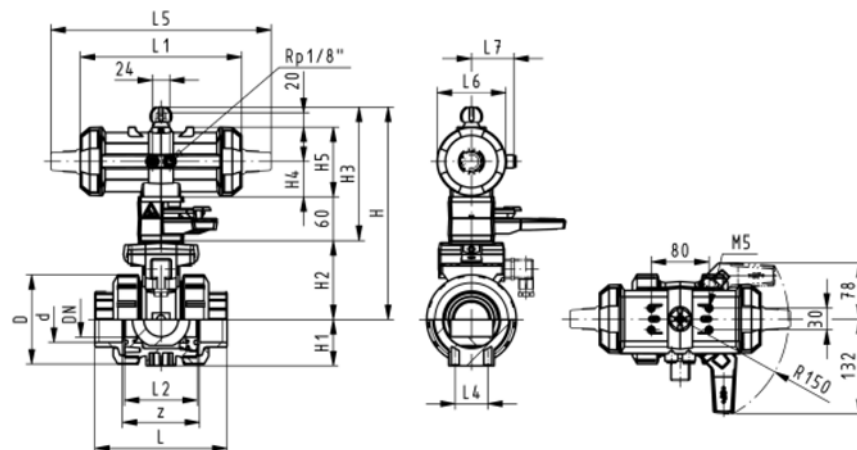
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
16	10	10	70	199 232 012
20	15	10	185	199 232 013
25	20	10	350	199 232 014
32	25	10	700	199 232 015
40	32	10	1000	199 232 016
50	40	10	1600	199 232 017
63	50	10	3100	199 232 018

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	224	64	106	187	51	99	183	224	101	45	305	95	59	107



SYGEF Standard metric

SYGEF Standard Ball valve type 232 Function FC (Fail safe to close) With manual override With socket fusion spigots metric



DN10/15 - 50

Model:

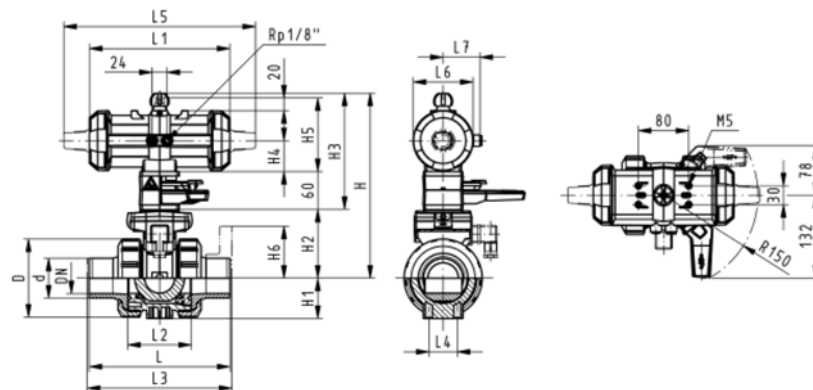
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
16	10	10	70	199 232 032	
20	15	10	185	199 232 033	
25	20	10	350	199 232 034	
32	25	10	700	199 232 035	
40	32	10	1000	199 232 036	
50	40	10	1600	199 232 037	
63	50	10	3100	199 232 038	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	92	194	56	130	25	261	76	48
20	50	159	27	62	168	40	77	95	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	110	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	123	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	146	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	157	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	183	224	101	230	45	305	95	59



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FC (Fail safe to close)

With manual override

With butt fusion spigots IR-Plus metric

Model:

- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

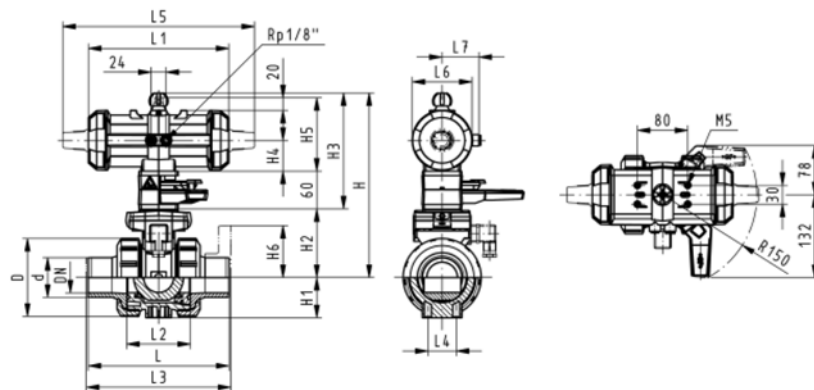
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	10	185	199 232 713
25	20	10	350	199 232 714
32	25	10	700	199 232 715
40	32	10	1000	199 232 716
50	40	10	1600	199 232 717
63	50	10	3100	199 232 718

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	168	40	77	130	194	56	25	261	76	48
25	58	168	30	71	168	40	77	130	194	65	25	261	76	48
32	68	168	36	71	168	40	77	130	194	71	25	261	76	48
40	84	202	44	84	187	51	99	130	224	85	45	305	95	59
50	97	202	51	84	187	51	99	130	224	89	45	305	95	59
63	124	225	64	106	187	51	99	130	224	101	45	305	95	59



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FC (Fail safe to close)

With manual override

With fixed flanges PVDF serrated metric

Model:

- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

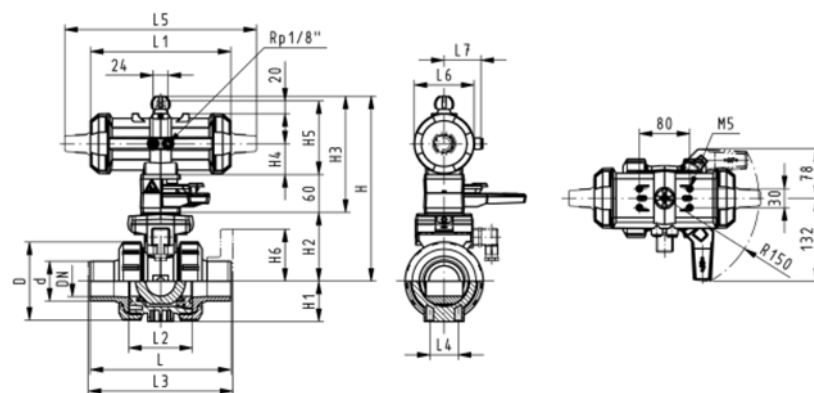


DN10/15 - 50

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
20	15	½	10	185	199 232 003
25	20	¾	10	350	199 232 004
32	25	1	10	700	199 232 005
40	32	1 ¼	10	1000	199 232 006
50	40	1 ½	10	1600	199 232 007
63	50	2	10	3100	199 232 008

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	27	62	168	40	77	48	124	194	56	130	25	261	76
25	58	168	30	71	168	40	77	53	144	194	65	150	25	261	76
32	68	168	36	71	168	40	77	58	154	194	71	160	25	261	76
40	84	202	44	84	187	51	99	70	174	224	85	180	45	305	95
50	97	202	51	84	187	51	99	75	194	224	89	200	45	305	95
63	124	225	64	106	187	51	99	83	224	224	101	230	45	305	95

d [mm]	L7 [mm]
20	48
25	48
32	48
40	59
50	59
63	59



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FC (Fail safe to close)

With manual override

With threaded sockets NPT

Model:

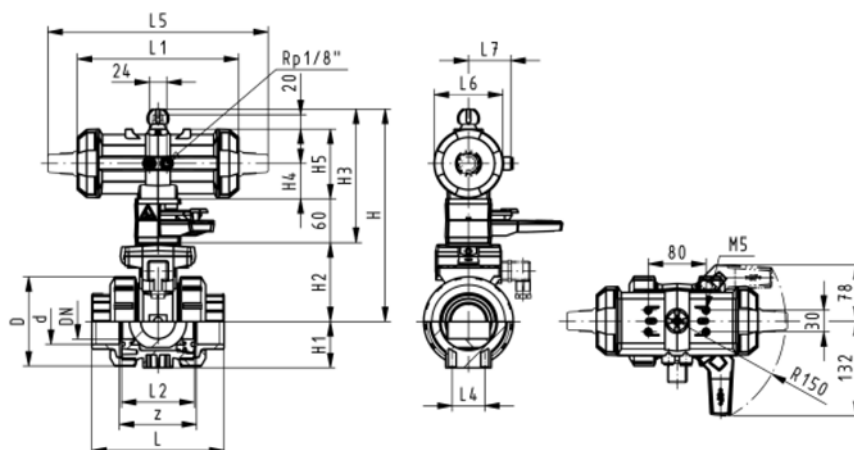
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	70	199 232 512
1/2	15	10	185	199 232 513
3/4	20	10	350	199 232 514
1	25	10	700	199 232 515
1 1/4	32	10	1000	199 232 516
1 1/2	40	10	1600	199 232 517
2	50	10	3100	199 232 518

Inch	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	168	40	77	96	194	56	25	261	76	48	69
1/2	50	159	27	62	168	40	77	99	194	56	25	261	76	48	64
3/4	58	168	30	71	168	40	77	111	194	65	25	261	76	48	76
1	68	168	36	71	168	40	77	127	194	71	25	261	76	48	83
1 1/4	84	202	44	84	187	51	99	146	224	85	45	305	95	59	101
1 1/2	97	202	51	84	187	51	99	157	224	89	45	305	95	59	111
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	135



SYGEF Standard metric

SYGEF Standard Ball valve type 232 Function FO (Fail safe to open) With manual override With fusion sockets metric



DN10/15 - 50

Model:

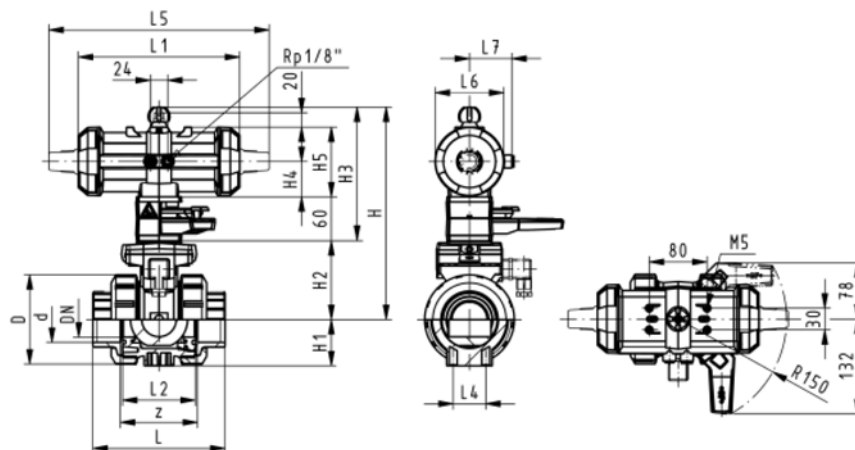
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
16	10	10	70	199 232 052	
20	15	10	185	199 232 053	
25	20	10	350	199 232 054	
32	25	10	700	199 232 055	
40	32	10	1000	199 232 056	
50	40	10	1600	199 232 057	
63	50	10	3100	199 232 058	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FO (Fail safe to open)

With manual override

With socket fusion spigots metric

Model:

- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

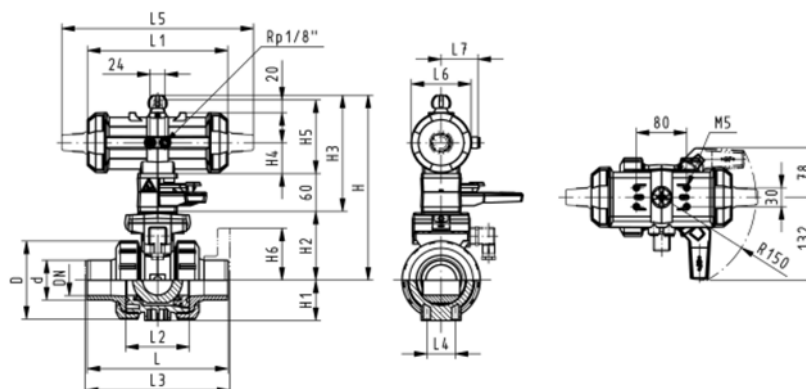
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 232 072
20	15	10	185	199 232 073
25	20	10	350	199 232 074
32	25	10	700	199 232 075
40	32	10	1000	199 232 076
50	40	10	1600	199 232 077
63	50	10	3100	199 232 078

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	92	194	56	130	25	261	76	48
20	50	159	27	62	168	40	77	95	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	110	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	123	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	146	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	157	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	183	224	101	230	45	305	95	59





DN10/15 - 50

SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FO (Fail safe to open)

With manual override

With butt fusion spigots IR-Plus metric

Model:

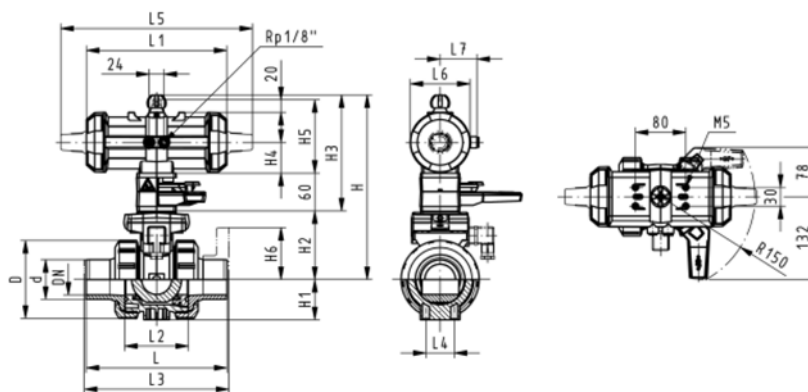
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
20	15	10	185	199 232 753	
25	20	10	350	199 232 754	
32	25	10	700	199 232 755	
40	32	10	1000	199 232 756	
50	40	10	1600	199 232 757	
63	50	10	3100	199 232 758	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	
20	50	159	27	62	168	40	77	130	194	56	25	261	76	48	
25	58	168	30	71	168	40	77	130	194	65	25	261	76	48	
32	68	168	36	71	168	40	77	130	194	71	25	261	76	48	
40	84	202	44	84	187	51	99	130	224	85	45	305	95	59	
50	97	202	51	84	187	51	99	130	224	89	45	305	95	59	
63	124	225	64	106	187	51	99	130	224	101	45	305	95	59	





DN10/15 - 50

SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FO (Fail safe to open)

With manual override

With fixed flanges PVDF serrated metric

Model:

- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Overall length EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

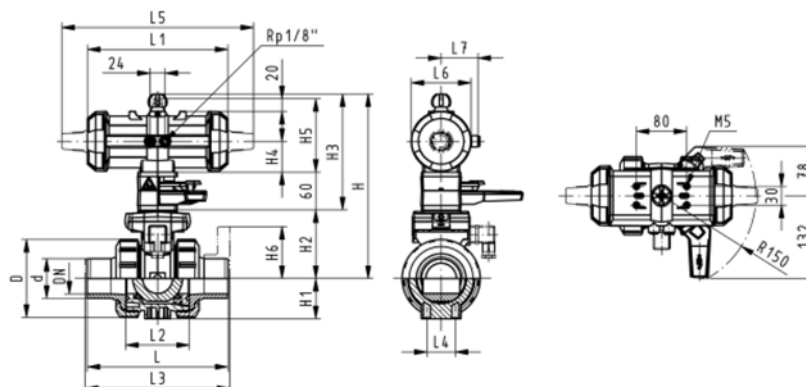
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	½	10	185	199 232 023
25	20	¾	10	350	199 232 024
32	25	1	10	700	199 232 025
40	32	1 ¼	10	1000	199 232 026
50	40	1 ½	10	1600	199 232 027
63	50	2	10	3100	199 232 028

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	27	62	168	40	77	48	124	194	56	130	25	261	76
25	58	168	30	71	168	40	77	53	144	194	65	150	25	261	76
32	68	168	36	71	168	40	77	58	154	194	71	160	25	261	76
40	84	202	44	84	187	51	99	70	174	224	85	180	45	305	95
50	97	202	51	84	187	51	99	75	194	224	89	200	45	305	95
63	124	225	64	106	187	51	99	83	224	224	101	230	45	305	95

d [mm]	L7 [mm]
20	48
25	48
32	48
40	59
50	59
63	59



SYGEF Standard metric

SYGEF Standard Ball valve type 232 Function FO (Fail safe to open) With manual override With threaded sockets NPT



DN10/15 - 50

Model:

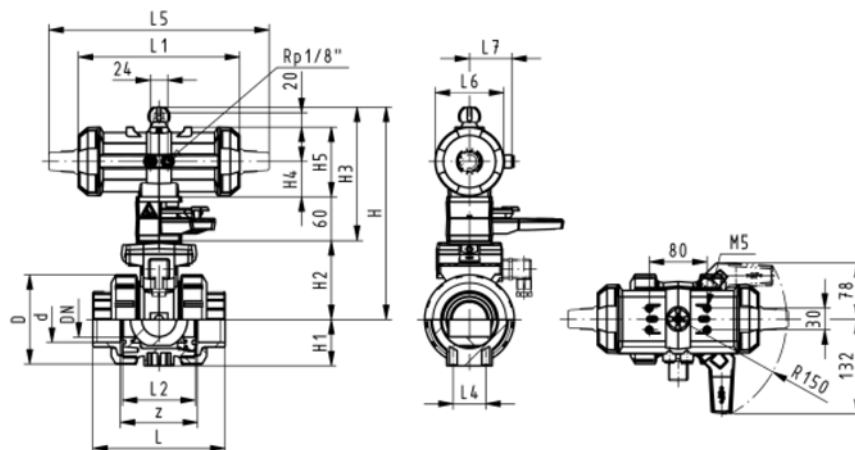
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s

Option:

- Individual configuration of the valve (see diagram)

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
$\frac{3}{8}$	10	10	70	199 232 532
$\frac{1}{2}$	15	10	185	199 232 533
$\frac{3}{4}$	20	10	350	199 232 534
1	25	10	700	199 232 535
1 $\frac{1}{4}$	32	10	1000	199 232 536
1 $\frac{1}{2}$	40	10	1600	199 232 537
2	50	10	3100	199 232 538

Inch	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
$\frac{3}{8}$	50	159	27	62	168	40	77	96	194	56	25	261	76	48	69
$\frac{1}{2}$	50	159	27	62	168	40	77	99	194	56	25	261	76	48	64
$\frac{3}{4}$	58	168	30	71	168	40	77	111	194	65	25	261	76	48	76
1	68	168	36	71	168	40	77	127	194	71	25	261	76	48	83
1 $\frac{1}{4}$	84	202	44	84	187	51	99	146	224	85	45	305	95	59	101
1 $\frac{1}{2}$	97	202	51	84	187	51	99	157	224	89	45	305	95	59	111
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	135



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function DA (Double acting)

With manual override

With fusion sockets metric

Model:

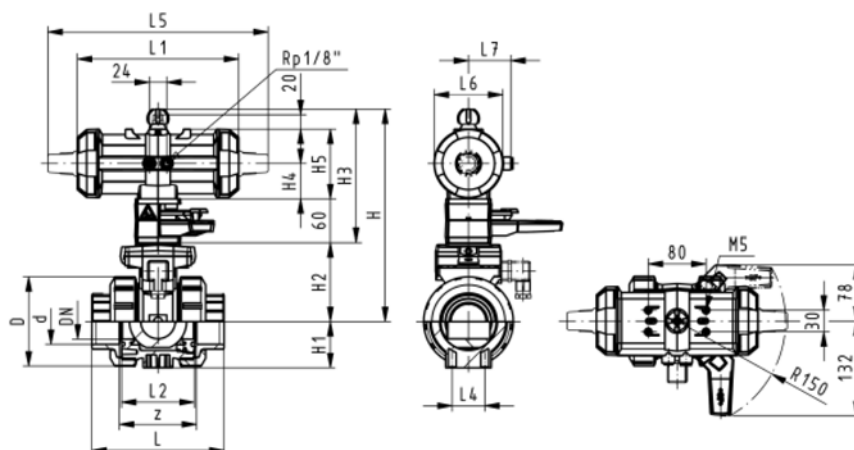
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 232 092
20	15	10	185	199 232 093
25	20	10	350	199 232 094
32	25	10	700	199 232 095
40	32	10	1000	199 232 096
50	40	10	1600	199 232 097
63	50	10	3100	199 232 098

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	187	51	99	183	224	101	45	305	95	59	107



SYGEF Standard metric

SYGEF Standard Ball valve type 232 Function DA (Double acting) With manual override With socket fusion spigots metric



DN10/15 - 50

Model:

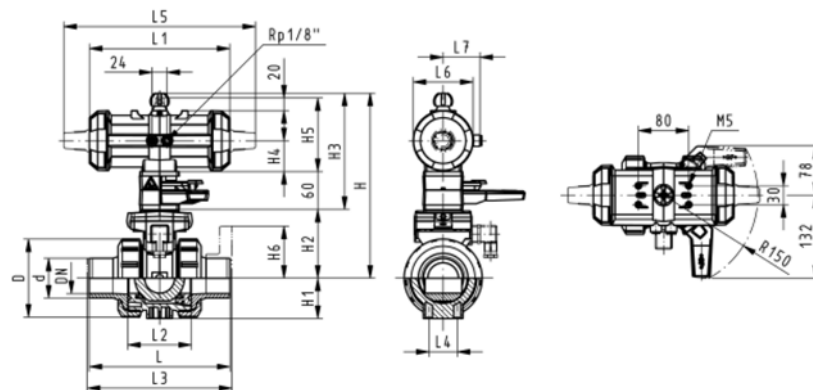
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
16	10	10	70	199 232 112	
20	15	10	185	199 232 113	
25	20	10	350	199 232 114	
32	25	10	700	199 232 115	
40	32	10	1000	199 232 116	
50	40	10	1600	199 232 117	
63	50	10	3100	199 232 118	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	168	40	77	92	194	56	130	25	261	76	48
20	50	159	27	62	168	40	77	95	194	56	130	25	261	76	48
25	58	168	30	71	168	40	77	110	194	65	150	25	261	76	48
32	68	168	36	71	168	40	77	123	194	71	160	25	261	76	48
40	84	202	44	84	187	51	99	146	224	85	180	45	305	95	59
50	97	202	51	84	187	51	99	157	224	89	200	45	305	95	59
63	124	225	64	106	187	51	99	183	224	101	230	45	305	95	59



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function DA (Double acting)

With manual override

With butt fusion spigots IR-Plus metric

Model:

- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

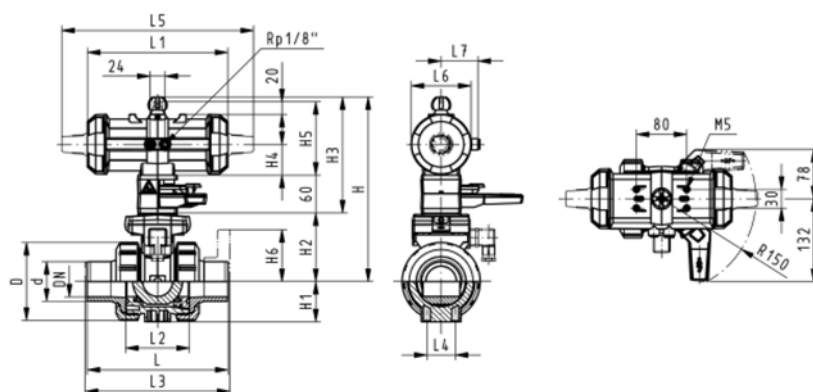
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	10	185	199 232 793
25	20	10	350	199 232 794
32	25	10	700	199 232 795
40	32	10	1000	199 232 796
50	40	10	1600	199 232 797
63	50	10	3100	199 232 798

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	168	40	77	130	194	56	25	261	76	48
25	58	168	30	71	168	40	77	130	194	65	25	261	76	48
32	68	168	36	71	168	40	77	130	194	71	25	261	76	48
40	84	202	44	84	187	51	99	130	224	85	45	305	95	59
50	97	202	51	84	187	51	99	130	224	89	45	305	95	59
63	124	225	64	106	187	51	99	130	224	101	45	305	95	59



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function DA (Double acting)

With manual override

With fixed flanges PVDF serrated metric

Model:

- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90° < 1-2 s
- Overall length EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

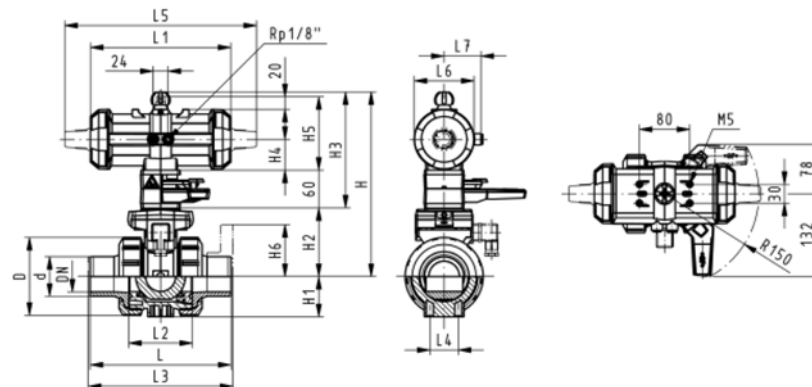


DN10/15 - 50

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	½	10	185	199 232 043
25	20	¾	10	350	199 232 044
32	25	1	10	700	199 232 045
40	32	1 ¼	10	1000	199 232 046
50	40	1 ½	10	1600	199 232 047
63	50	2	10	3100	199 232 048

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	27	62	168	40	77	48	124	194	56	130	25	261	76
25	58	168	30	71	168	40	77	53	144	194	65	150	25	261	76
32	68	168	36	71	168	40	77	58	154	194	71	160	25	261	76
40	84	202	44	84	187	51	99	70	174	224	85	180	45	305	95
50	97	202	51	84	187	51	99	75	194	224	89	200	45	305	95
63	124	225	64	106	187	51	99	83	224	224	101	230	45	305	95

d [mm]	L7 [mm]
20	48
25	48
32	48
40	59
50	59
63	59



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function DA (Double acting)

With manual override

With threaded sockets NPT

Model:

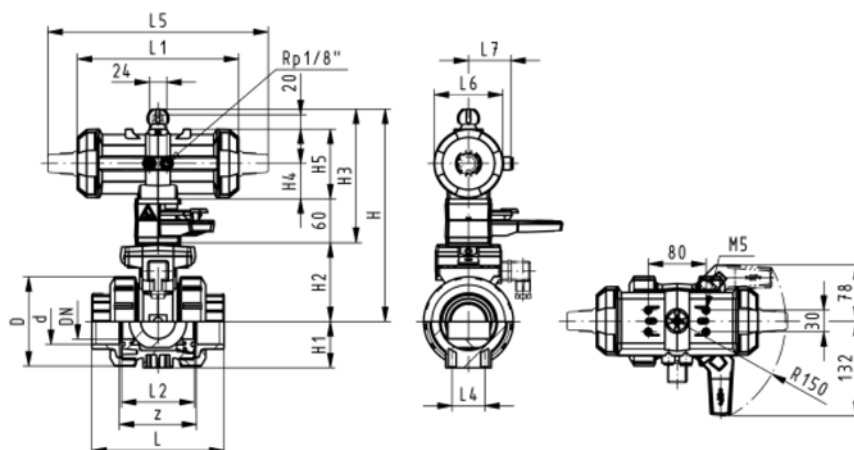
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s

Option:

- Individual configuration of the valve (see diagram)

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	70	199 232 552
1/2	15	10	185	199 232 553
3/4	20	10	350	199 232 554
1	25	10	700	199 232 555
1 1/4	32	10	1000	199 232 556
1 1/2	40	10	1600	199 232 557
2	50	10	3100	199 232 558

Inch	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	168	40	77	96	194	56	25	261	76	48	69
1/2	50	159	27	62	168	40	77	99	194	56	25	261	76	48	64
3/4	58	168	30	71	168	40	77	111	194	65	25	261	76	48	76
1	68	168	36	71	168	40	77	127	194	71	25	261	76	48	83
1 1/4	84	202	44	84	187	51	99	146	224	85	45	305	95	59	101
1 1/2	97	202	51	84	187	51	99	157	224	89	45	305	95	59	111
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	135

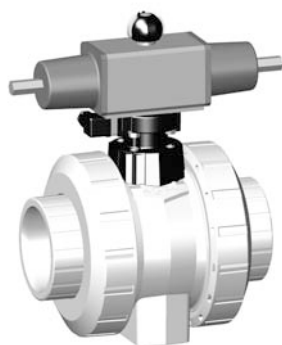


SYGEF Standard metric

SYGEF Standard Ball valve type 232 Function FC (Fail safe to close) Without manual override With fusion sockets metric



DN10/15 - 50



Model:

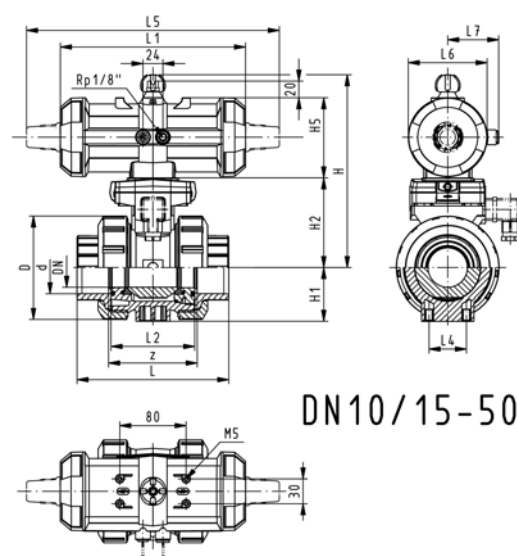
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

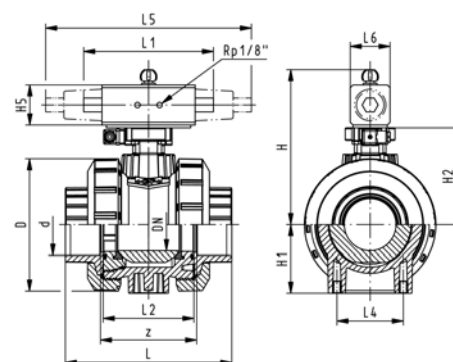
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 232 132
20	15	10	185	199 232 133
25	20	10	350	199 232 134
32	25	10	700	199 232 135
40	32	10	1000	199 232 136
50	40	10	1600	199 232 137
63	50	10	3100	199 232 138
75	65	10	5000	199 232 139
90	80	10	7000	199 232 140
110	100	10	11000	199 232 141

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	51	99	183	224	101	45	305	95	59	107
75	166	262	85	156		70	233		136	70	276	65		167
90	200	281	105	168		78	254		141	70	341	72		180
110	238	292	123	175		86	301		164	120	369	80		215



DN10/15-50



DN65-100

SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FC (Fail safe to close)

Without manual override

With butt fusion spigots IR-Plus metric

Model:

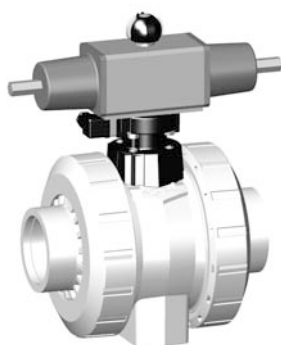
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

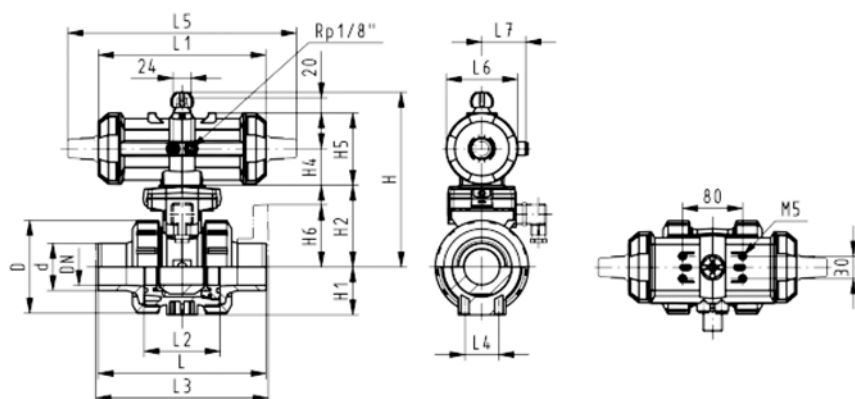


DN10/15 - 50



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code	
20	15	10	185	199 232 833	
25	20	10	350	199 232 834	
32	25	10	700	199 232 835	
40	32	10	1000	199 232 836	
50	40	10	1600	199 232 837	
63	50	10	3100	199 232 838	
75	65	10	5000	199 232 839	
90	80	10	7000	199 232 840	
110	100	10	11000	199 232 841	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	e [mm]
20	50	159	27	62	40	77	130	194	56	25	261	76	48	1.9
25	58	168	30	71	40	77	130	194	65	25	261	76	48	1.9
32	68	168	36	71	40	77	130	194	71	25	261	76	48	2.4
40	84	202	44	84	51	99	130	224	85	45	305	95	59	2.4
50	97	202	51	84	51	99	130	224	89	45	305	95	59	3.0
63	124	225	64	106	51	99	130	224	101	45	305	95	59	3.0
75	166	262	85	156		70	266	270	136	70	276	65		3.6
90	200	281	105	168		78	264	270	141	70	341	72		4.3
110	238	292	123	175		86	301	320	164	120	369	80		5.3



SYGEF Standard metric

SYGEF Standard Ball valve type 232 Function FC (Fail safe to close) Without manual override With socket fusion spigots metric



DN10/15 - 50

Model:

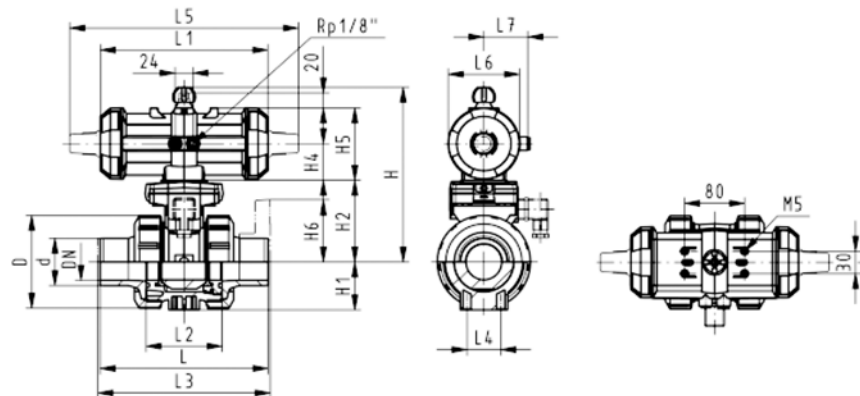
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
16	10	10	70	199 232 152	
20	15	10	185	199 232 153	
25	20	10	350	199 232 154	
32	25	10	700	199 232 155	
40	32	10	1000	199 232 156	
50	40	10	1600	199 232 157	
63	50	10	3100	199 232 158	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	
16	50	159	27	62	40	77	114	194	56	130	25	261	76	48	
20	50	159	27	62	40	77	124	194	56	130	25	261	76	48	
25	58	168	30	71	40	77	144	194	65	150	25	261	76	48	
32	68	168	36	71	40	77	154	194	71	160	25	261	76	48	
40	84	202	44	84	51	99	174	224	85	180	45	305	95	59	
50	97	202	51	84	51	99	194	224	89	200	45	305	95	59	
63	124	225	64	106	51	99	224	224	101	230	45	305	95	59	



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FC (Fail safe to close)

Without manual override

With backing flanges PP-st metric

Model:

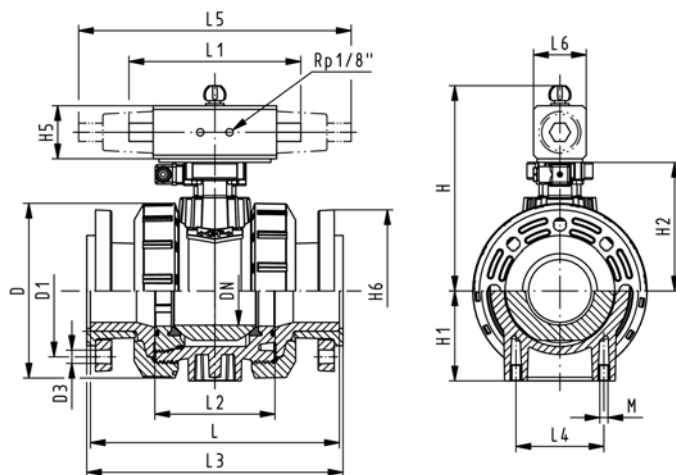
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
75	65	2 1/2	10	5000	199 232 929
90	80	3	10	7000	199 232 930
110	100	4	10	11000	199 232 931

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
75	166	262	85	156	70	93	280	136	290	70	276	65
90	200	281	105	168	78	100	296	141	310	70	341	72
110	238	292	123	175	86	110	336	164	350	120	369	80



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FC (Fail safe to close)

Without manual override

With fixed flanges PVDF serrated metric

Model:

- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Overall length EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

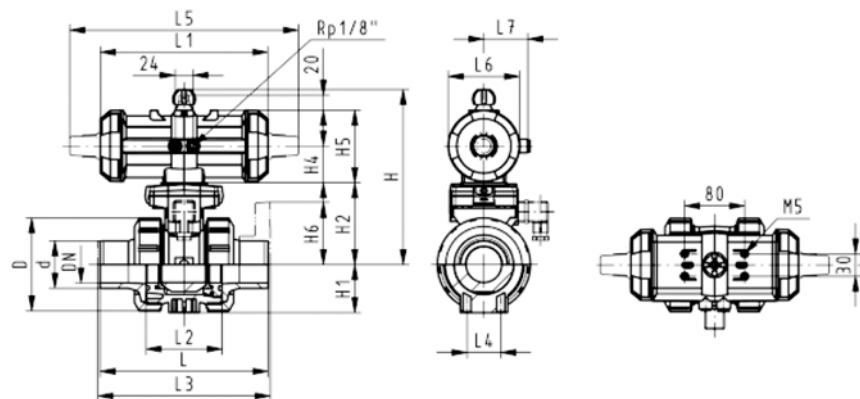
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	½	10	185	199 232 063
25	20	¾	10	350	199 232 064
32	25	1	10	700	199 232 065
40	32	1 ¼	10	1000	199 232 066
50	40	1 ½	10	1600	199 232 067
63	50	2	10	3100	199 232 068

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	40	77	48	124	194	56	130	25	261	76	48
25	58	168	30	71	40	77	53	144	194	65	150	25	261	76	48
32	68	168	36	71	40	77	58	154	194	71	160	25	261	76	48
40	84	202	44	84	51	99	70	174	224	85	180	45	305	95	59
50	97	202	51	84	51	99	75	194	224	89	200	45	305	95	59
63	124	225	64	106	51	99	83	224	224	101	230	45	305	95	59



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FC (Fail safe to close)

Without manual override

With threaded sockets NPT

Model:

- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)

Option:

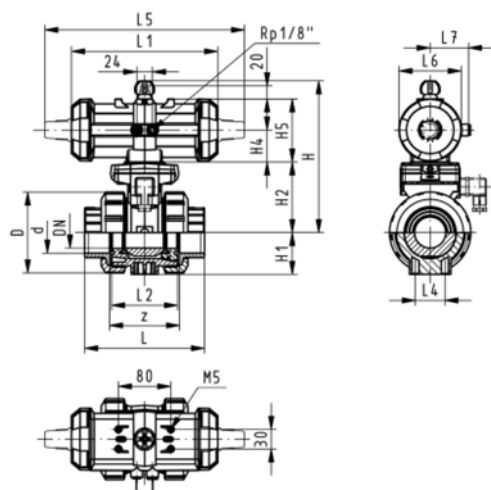
- Individual configuration of the valve (see diagram)



DN10/15 - 50

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	70	199 232 572
1/2	15	10	185	199 232 573
3/4	20	10	350	199 232 574
1	25	10	700	199 232 575
1 1/4	32	10	1000	199 232 576
1 1/2	40	10	1600	199 232 577
2	50	10	3100	199 232 578

Inch	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	40	77	96	194	56	25	261	76	48	69
1/2	50	159	27	62	40	77	99	194	56	25	261	76	48	64
3/4	58	168	30	71	40	77	111	194	65	25	261	76	48	76
1	68	168	36	71	40	77	127	194	71	25	261	76	48	83
1 1/4	84	202	44	84	51	99	146	224	85	45	305	95	59	101
1 1/2	97	202	51	84	51	99	157	224	89	45	305	95	59	111
2	124	225	64	106	51	99	183	224	101	45	305	95	59	135

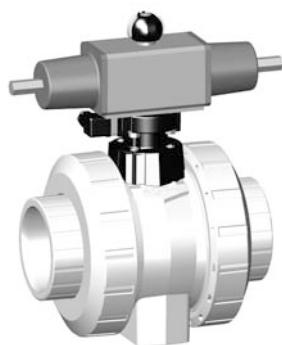


SYGEF Standard metric

SYGEF Standard Ball valve type 232 Function FO (Fail safe to open) Without manual override With fusion sockets metric



DN10/15 - 50



Model:

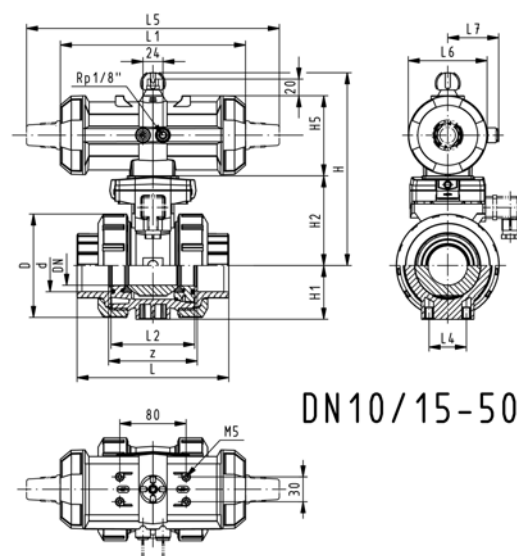
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

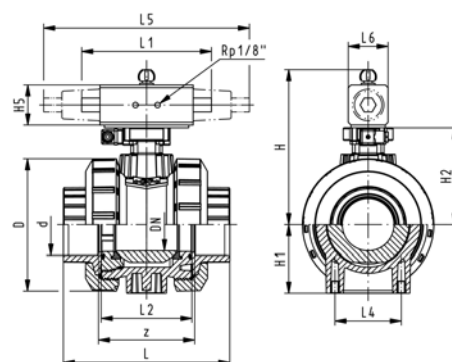
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 232 172
20	15	10	185	199 232 173
25	20	10	350	199 232 174
32	25	10	700	199 232 175
40	32	10	1000	199 232 176
50	40	10	1600	199 232 177
63	50	10	3100	199 232 178
75	65	10	5000	199 232 179
90	80	10	7000	199 232 180
110	100	10	11000	199 232 181

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	51	99	183	224	101	45	305	95	59	107
75	166	262	85	156		70	233		136	70	276	65		167
90	200	281	105	168		78	254		141	70	341	72		180
110	238	292	123	175		86	301		164	120	369	80		215



DN10/15-50



DN65-100

SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FO (Fail safe to open)

Without manual override

With socket fusion spigots metric

Model:

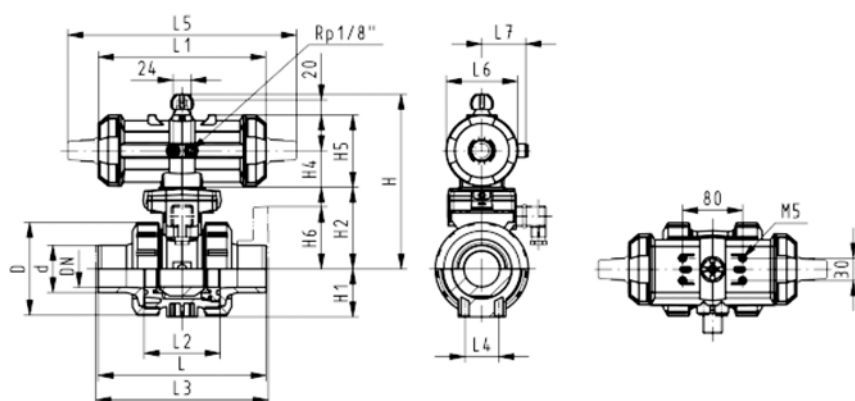
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 232 192
20	15	10	185	199 232 193
25	20	10	350	199 232 194
32	25	10	700	199 232 195
40	32	10	1000	199 232 196
50	40	10	1600	199 232 197
63	50	10	3100	199 232 198

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	40	77	114	194	56	130	25	261	76	48
20	50	159	27	62	40	77	124	194	56	130	25	261	76	48
25	58	168	30	71	40	77	144	194	65	150	25	261	76	48
32	68	168	36	71	40	77	154	194	71	160	25	261	76	48
40	84	202	44	84	51	99	174	224	85	180	45	305	95	59
50	97	202	51	84	51	99	194	224	89	200	45	305	95	59
63	124	225	64	106	51	99	224	224	101	230	45	305	95	59



SYGEF Standard metric

SYGEF Standard Ball valve type 232

Function FO (Fail safe to open)

Without manual override

With butt fusion spigots IR-Plus metric



DN10/15 - 50



Model:

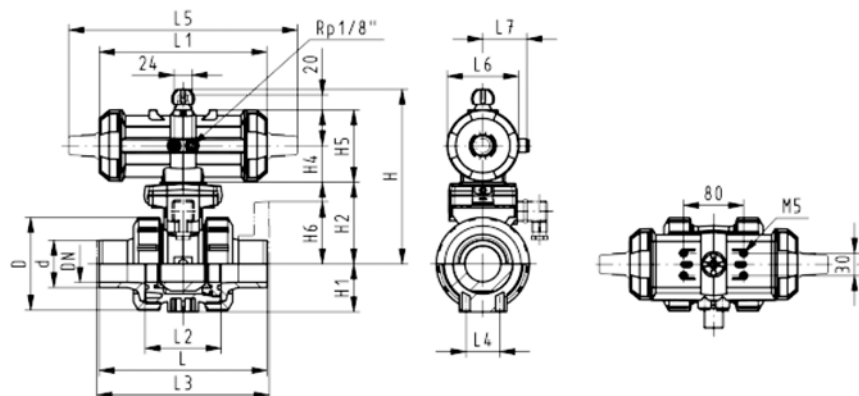
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code	
20	15	10	185	199 232 873	
25	20	10	350	199 232 874	
32	25	10	700	199 232 875	
40	32	10	1000	199 232 876	
50	40	10	1600	199 232 877	
63	50	10	3100	199 232 878	
75	65	10	5000	199 232 879	
90	80	10	7000	199 232 880	
110	100	10	11000	199 232 881	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	e [mm]
20	50	159	27	62	40	77	130	194	56	25	261	76	48	1.9
25	58	168	30	71	40	77	130	194	65	25	261	76	48	1.9
32	68	168	36	71	40	77	130	194	71	25	261	76	48	2.4
40	84	202	44	84	51	99	130	224	85	45	305	95	59	2.4
50	97	202	51	84	51	99	130	224	89	45	305	95	59	3.0
63	124	225	64	106	51	99	130	224	101	45	305	95	59	3.0
75	166	262	85	156	70	266	218	136	70	276	65			3.6
90	200	281	105	168	70	264	259	141	70	341	72			4.3
110	238	292	123	175	70	301	287	164	120	369	80			5.3



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FO (Fail safe to open)

Without manual override

With backing flanges PP-st metric



Model:

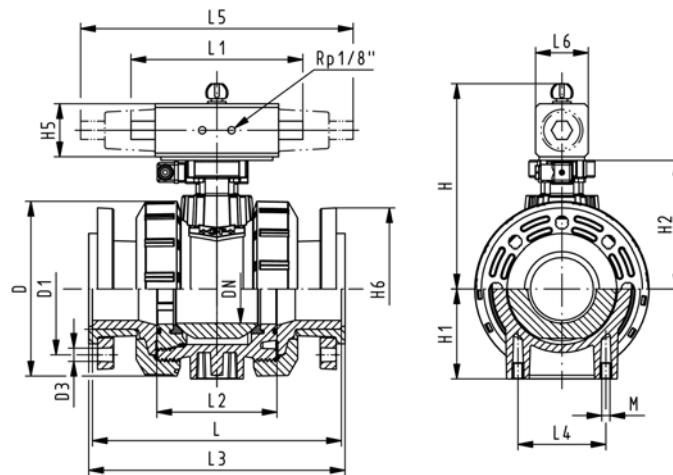
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
75	65	2 1/2	10	5000	199 232 939	
90	80	3	10	7000	199 232 940	
110	100	4	10	11000	199 232 941	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	
75	166	262	85	156	70	93	280	136	290	70	276	65	
90	200	281	105	168	78	100	296	141	310	70	341	72	
110	238	292	123	175	86	110	336	164	350	120	369	80	



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FO (Fail safe to open)

Without manual override

With fixed flanges PVDF serrated metric

Model:

- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Overall length EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

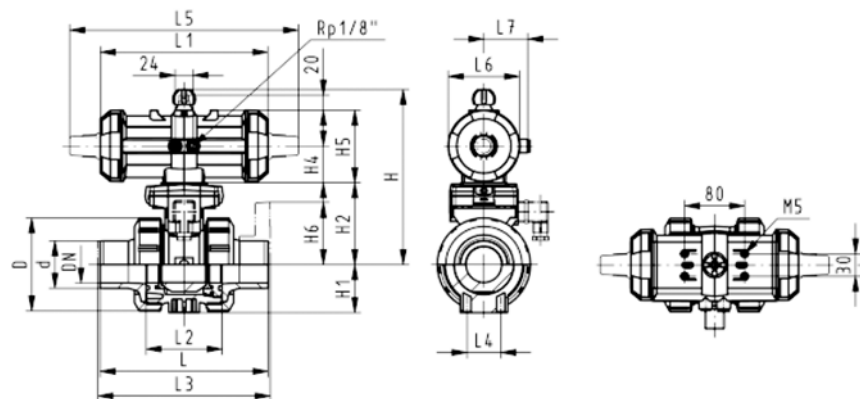
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	½	10	185	199 232 083
25	20	¾	10	350	199 232 084
32	25	1	10	700	199 232 085
40	32	1 ¼	10	1000	199 232 086
50	40	1 ½	10	1600	199 232 087
63	50	2	10	3100	199 232 088

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	40	77	48	124	194	56	130	25	261	76	48
25	58	168	30	71	40	77	53	144	194	65	150	25	261	76	48
32	68	168	36	71	40	77	58	154	194	71	160	25	261	76	48
40	84	202	44	84	51	99	70	174	224	85	180	45	305	95	59
50	97	202	51	84	51	99	75	194	224	89	200	45	305	95	59
63	124	225	64	106	51	99	83	224	224	101	230	45	305	95	59



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function FO (Fail safe to open)

Without manual override

With threaded sockets NPT

Model:

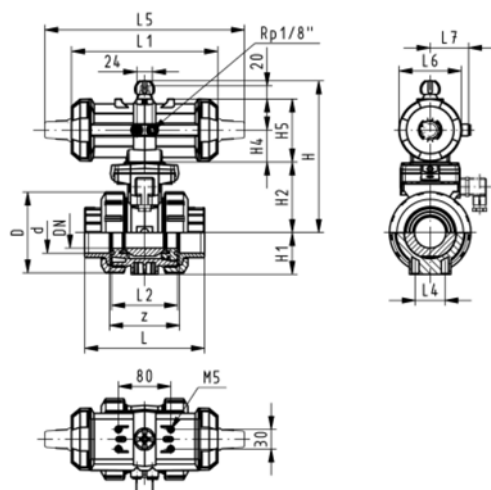
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)

Option:

- Individual configuration of the valve (see diagram)

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	70	199 232 592
1/2	15	10	185	199 232 593
3/4	20	10	350	199 232 594
1	25	10	700	199 232 595
1 1/4	32	10	1000	199 232 596
1 1/2	40	10	1600	199 232 597
2	50	10	3100	199 232 598

Inch	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	40	77	96	194	56	25	261	76	48	69
1/2	50	159	27	62	40	77	99	194	56	25	261	76	48	64
3/4	58	168	30	71	40	77	111	194	65	25	261	76	48	76
1	68	168	36	71	40	77	127	194	71	25	261	76	48	83
1 1/4	84	202	44	84	51	99	146	224	85	45	305	95	59	101
1 1/2	97	202	51	84	51	99	157	224	89	45	305	95	59	111
2	124	225	64	106	51	99	183	224	101	45	305	95	59	135



SYGEF Standard metric

SYGEF Standard Ball valve type 232 Function DA (Double acting) Without manual override With fusion sockets metric



DN10/15 - 50



Model:

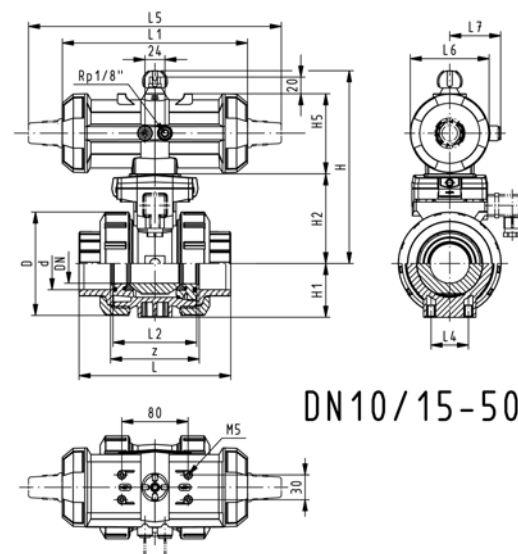
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

Option:

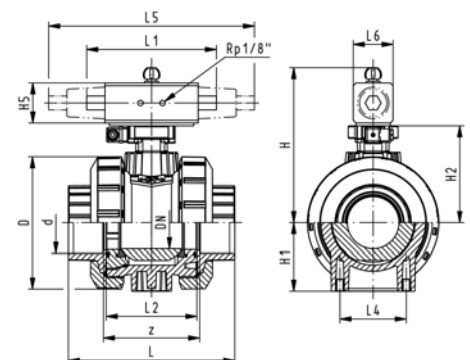
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 232 212
20	15	10	185	199 232 213
25	20	10	350	199 232 214
32	25	10	700	199 232 215
40	32	10	1000	199 232 216
50	40	10	1600	199 232 217
63	50	10	3100	199 232 218
75	65	10	5000	199 232 219
90	80	10	7000	199 232 220
110	100	10	11000	199 232 221

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
16	50	159	27	62	40	77	92	194	56	25	261	76	48	64
20	50	159	27	62	40	77	95	194	56	25	261	76	48	64
25	58	168	30	71	40	77	110	194	65	25	261	76	48	72
32	68	168	36	71	40	77	123	194	71	25	261	76	48	79
40	84	202	44	84	51	99	146	224	85	45	305	95	59	94
50	97	202	51	84	51	99	157	224	89	45	305	95	59	95
63	124	225	64	106	51	99	183	224	101	45	305	95	59	107
75	166	257	85	156		66	233	144	136	70		60		167
90	200	274	105	168		70	254	152	141	70		65		180
110	238	273	123	175		78	301	169	164	120		72		215



DN10/15-50



DN65-100

SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function DA (Double acting)

Without manual override

With socket fusion spigots metric

Model:

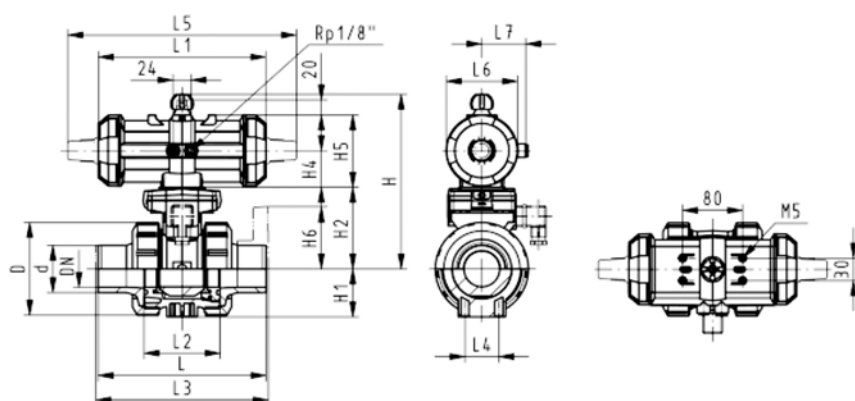
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	70	199 232 232
20	15	10	185	199 232 233
25	20	10	350	199 232 234
32	25	10	700	199 232 235
40	32	10	1000	199 232 236
50	40	10	1600	199 232 237
63	50	10	3100	199 232 238

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
16	50	159	27	62	40	77	114	194	56	130	25	261	76	48
20	50	159	27	62	40	77	124	194	56	130	25	261	76	48
25	58	168	30	71	40	77	144	194	65	150	25	261	76	48
32	68	168	36	71	40	77	154	194	71	160	25	261	76	48
40	84	202	44	84	51	99	174	224	85	180	45	305	95	59
50	97	202	51	84	51	99	194	224	89	200	45	305	95	59
63	124	225	64	106	51	99	224	224	101	230	45	305	95	59



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function DA (Double acting)

Without manual override

With butt fusion spigots IR-Plus metric



DN10/15 - 50



Model:

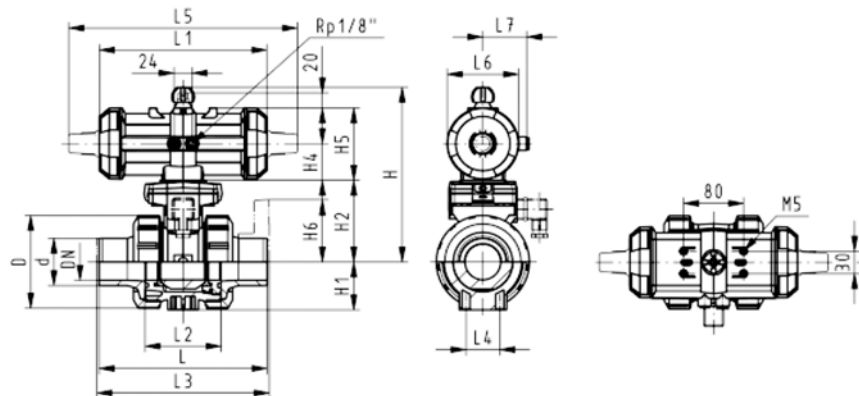
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
20	15	10	185	199 232 913	
25	20	10	350	199 232 914	
32	25	10	700	199 232 915	
40	32	10	1000	199 232 916	
50	40	10	1600	199 232 917	
63	50	10	3100	199 232 918	
75	65	10	5000	199 232 919	
90	80	10	7000	199 232 920	
110	100	10	11000	199 232 921	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	e [mm]
20	50	159	27	62	40	77	130	194	56	25	261	76	48	1.9
25	58	168	30	71	40	77	130	194	65	25	261	76	48	1.9
32	68	168	36	71	40	77	130	194	71	25	261	76	48	2.4
40	84	202	44	84	51	99	130	224	85	45	305	95	59	2.4
50	97	202	51	84	51	99	130	224	89	45	305	95	59	3.0
63	124	225	64	106	51	99	130	224	101	45	305	95	59	3.0
75	166	257	85	156		66	266	144	136	70		60		3.6
90	200	274	105	168		70	264	152	141	70		65		4.3
110	238	273	123	175		78	301	169	164	120		72		5.3



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function DA (Double acting)

Without manual override

With backing flanges PP-st metric



Model:

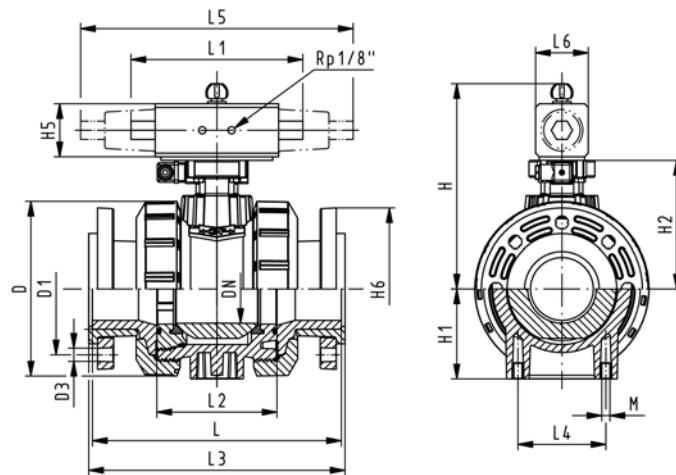
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
75	65	2 1/2	10	5000	199 232 949	
90	80	3	10	7000	199 232 950	
110	100	4	10	11000	199 232 951	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L6 [mm]	
75	166	257	85	156	66	93	280	144	136	290	70	60	
90	200	274	105	168	70	100	296	152	141	310	70	65	
110	238	273	123	175	78	110	336	169	164	350	120	72	



SYGEF Standard metric

SYGEF Standard

Ball valve type 232

Function DA (Double acting)

Without manual override

With fixed flanges PVDF serrated metric

Model:

- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time $90^\circ <$ 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Overall length EN 558
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

Option:

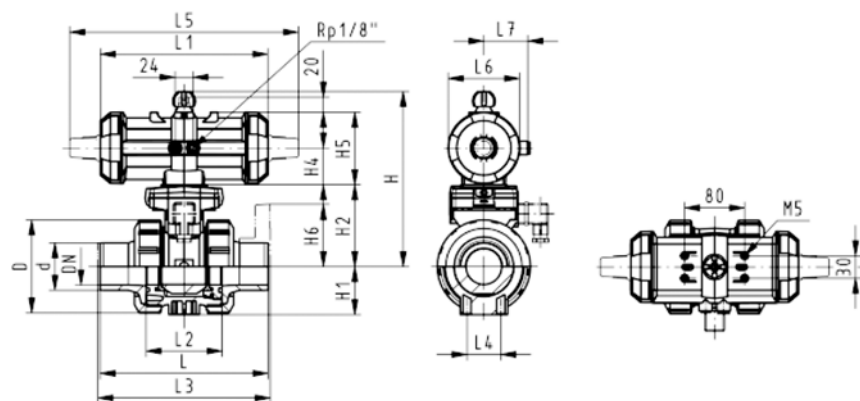
- Individual configuration of the valve (see diagram)



DN10/15 - 50

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	½	10	185	199 232 103
25	20	¾	10	350	199 232 104
32	25	1	10	700	199 232 105
40	32	1 ¼	10	1000	199 232 106
50	40	1 ½	10	1600	199 232 107
63	50	2	10	3100	199 232 108

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]
20	50	159	27	62	40	77	48	124	194	56	130	25	261	76	48
25	58	168	30	71	40	77	53	144	194	65	150	25	261	76	48
32	68	168	36	71	40	77	58	154	194	71	160	25	261	76	48
40	84	202	44	84	51	99	70	174	224	85	180	45	305	95	59
50	97	202	51	84	51	99	75	194	224	89	200	45	305	95	59
63	124	225	64	106	51	99	83	224	224	101	230	45	305	95	59



SYGEF Standard metric

SYGEF Standard Ball valve type 232 Function DA (Double acting) Without manual override With threaded sockets NPT



DN10/15 - 50

Model:

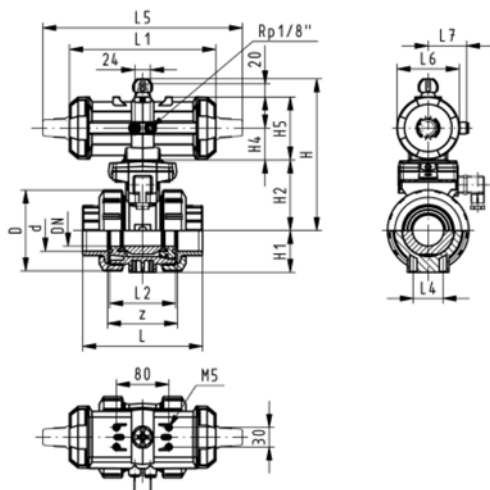
- Material: PVDF
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Control time 90°<) 1-2 s
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)

Option:

- Individual configuration of the valve (see diagram)

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	70	199 232 612
1/2	15	10	185	199 232 613
3/4	20	10	350	199 232 614
1	25	10	700	199 232 615
1 1/4	32	10	1000	199 232 616
1 1/2	40	10	1600	199 232 617
2	50	10	3100	199 232 618

Inch	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	z [mm]
3/8	50	159	27	62	40	77	96	194	56	25	261	76	48	69
1/2	50	159	27	62	40	77	99	194	56	25	261	76	48	64
3/4	58	168	30	71	40	77	111	194	65	25	261	76	48	76
1	68	168	36	71	40	77	127	194	71	25	261	76	48	83
1 1/4	84	202	44	84	51	99	146	224	85	45	305	95	59	101
1 1/2	97	202	51	84	51	99	157	224	89	45	305	95	59	111
2	124	225	64	106	51	99	183	224	101	45	305	95	59	135

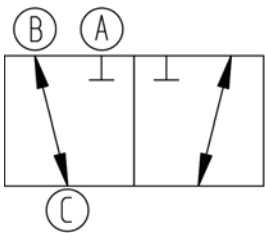
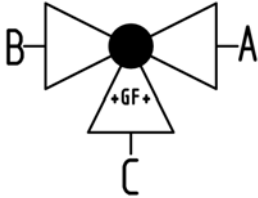


SYGEF Standard metric

SYGEF Standard 3-Way ball valve type 287 Horizontal/L-port Without manual override With fusion sockets metric

Model:

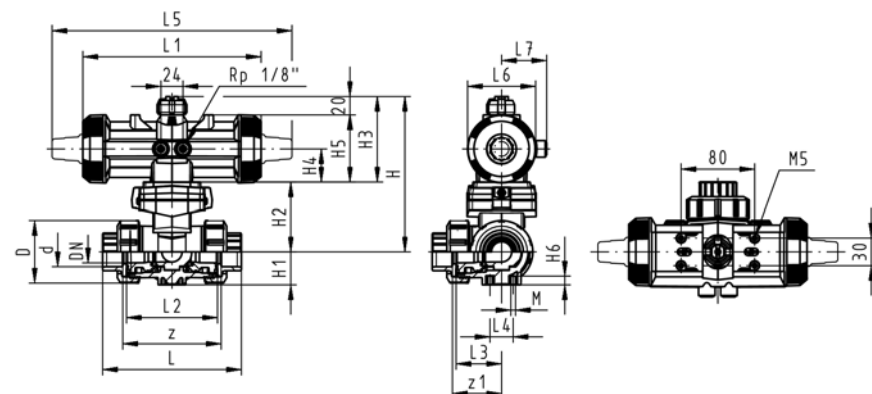
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	50	199 287 092
20	15	10	75	199 287 093
25	20	10	150	199 287 094
32	25	10	280	199 287 095
40	32	10	480	199 287 096
50	40	10	620	199 287 097
63	50	10	1230	199 287 098

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	110	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	129	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	146	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	170	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	193	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	244	224	176	88	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	82	41
20	48	6	82	41
25	48	6	97	49
32	48	6	110	55
40	59	8	132	66
50	59	8	151	76
63	59	8	188	94



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 287

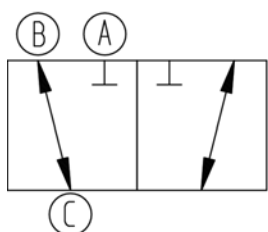
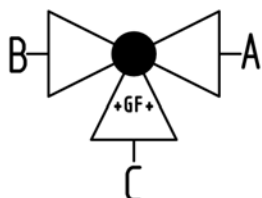
Horizontal/L-port

Without manual override

With socket fusion spigots metric

Model:

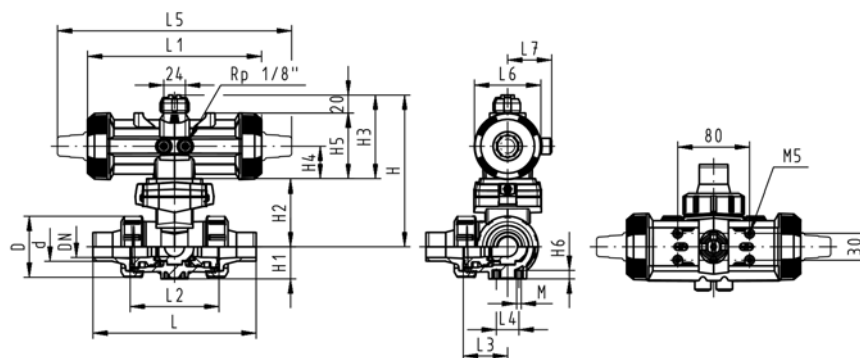
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
16	10	10	50	199 287 012
20	15	10	75	199 287 013
25	20	10	150	199 287 014
32	25	10	280	199 287 015
40	32	10	480	199 287 016
50	40	10	620	199 287 017
63	50	10	1230	199 287 018

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	126	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	136	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	159	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 287

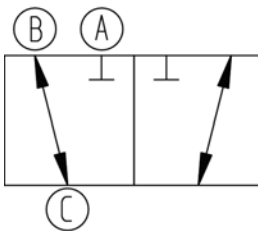
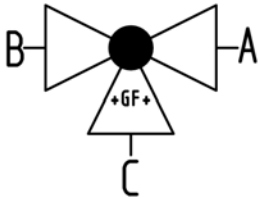
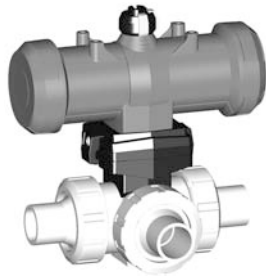
Horizontal/L-port

Without manual override

With butt fusion spigots IR-Plus metric

Model:

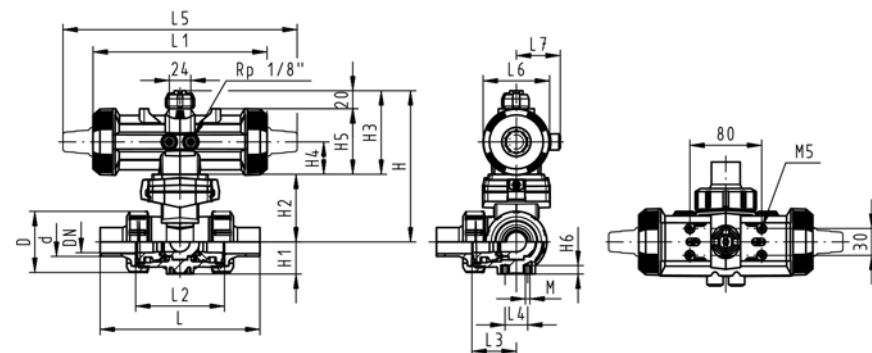
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	10	75	199 287 053
25	20	10	150	199 287 054
32	25	10	280	199 287 055
40	32	10	480	199 287 056
50	40	10	620	199 287 057
63	50	10	1230	199 287 058

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	28	62	97	40	77	8	146	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	163	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8

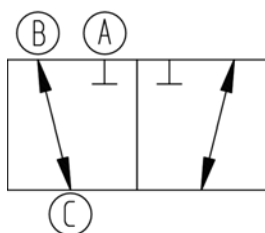
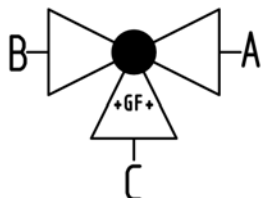


SYGEF Standard metric

SYGEF Standard 3-Way ball valve type 287 Horizontal/L-port Without manual override With threaded sockets NPT

Model:

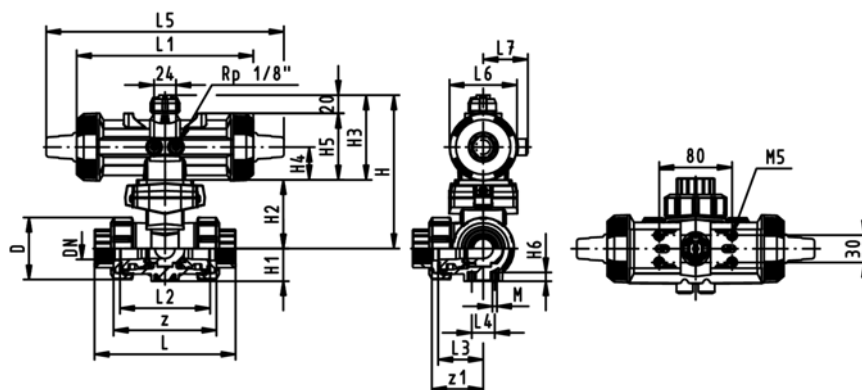
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



NPT [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	50	199 287 242
1/2	15	10	75	199 287 243
3/4	20	10	150	199 287 244
1	25	10	280	199 287 245
1 1/4	32	10	480	199 287 246
1 1/2	40	10	620	199 287 247
2	50	10	1230	199 287 248

NPT [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
3/8	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
1/2	50	159	28	62	97	40	77	8	114	194	72	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	85	43	25	261	76
1	68	168	36	71	97	40	77	8	154	194	98	49	25	261	76
1 1/4	84	203	45	84	119	51	99	9	180	224	118	59	45	305	95
1 1/2	97	203	51	84	119	51	99	9	203	224	135	68	45	305	95
2	124	225	65	106	119	51	99	9	258	224	176	88	45	305	95

NPT [inch]	L7 [mm]	M	z [mm]	z1 [mm]
3/8	48	6	86	43
1/2	48	6	80	40
3/4	48	6	95	48
1	48	6	110	55
1 1/4	59	8	132	66
1 1/2	59	8	157	79
2	59	8	210	105



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 287

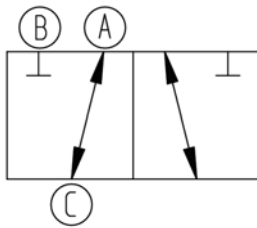
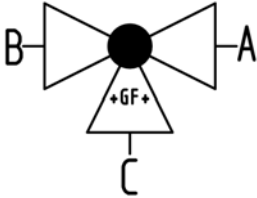
Horizontal/L-port DA (Double acting)

Without manual override

With fusion sockets metric

Model:

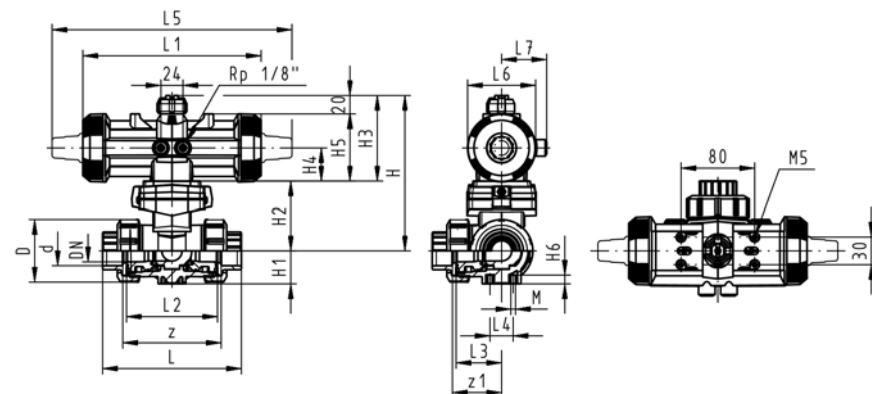
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	50	199 287 212
20	15	10	75	199 287 213
25	20	10	150	199 287 214
32	25	10	280	199 287 215
40	32	10	480	199 287 216
50	40	10	620	199 287 217
63	50	10	1230	199 287 218

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	110	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	129	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	146	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	170	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	193	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	244	224	176	88	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	82	41
20	48	6	82	41
25	48	6	97	49
32	48	6	110	55
40	59	8	132	66
50	59	8	151	76
63	59	8	188	94



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 287

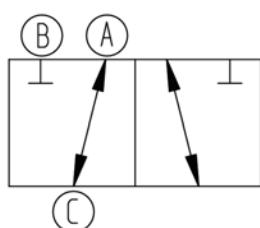
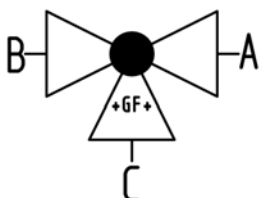
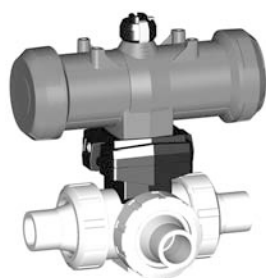
Horizontal/L-port DA (Double acting)

Without manual override

With socket fusion spigots metric

Model:

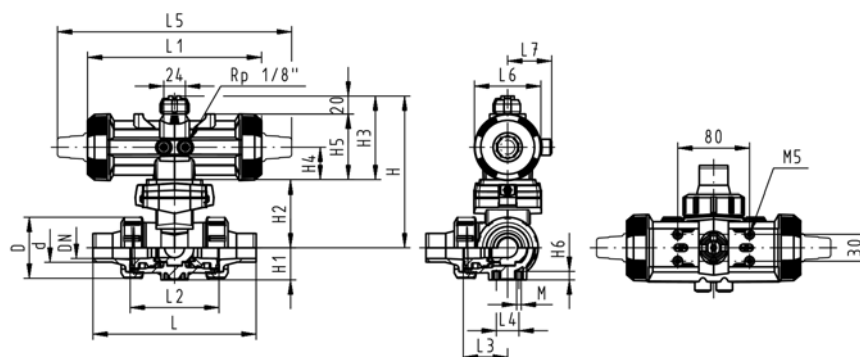
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
16	10	10	50	199 287 132
20	15	10	75	199 287 133
25	20	10	150	199 287 134
32	25	10	280	199 287 135
40	32	10	480	199 287 136
50	40	10	620	199 287 137
63	50	10	1230	199 287 138

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	126	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	136	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	159	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



SYGEF Standard
3-Way ball valve type 287
Horizontal/L-port DA (Double acting)
Without manual override
With butt fusion spigots IR-Plus metric

Model:

d	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L5	L6	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
20	50	159	28	62	97	40	77	8	146	194	72	36	25	261	76	
25	58	168	32	71	97	40	77	8	163	194	85	43	25	261	76	
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76	
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95	
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95	
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95	

SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 287

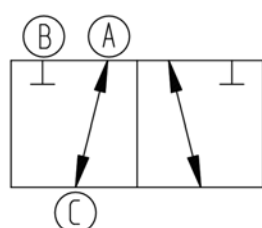
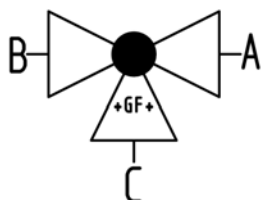
Horizontal/L-port DA (Double acting)

Without manual override

With threaded sockets NPT

Model:

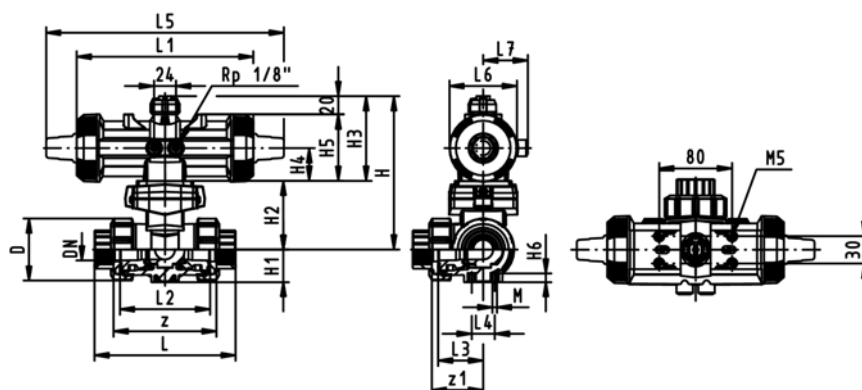
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°< 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



NPT [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	50	199 287 262
1/2	15	10	75	199 287 263
3/4	20	10	150	199 287 264
1	25	10	280	199 287 265
1 1/4	32	10	480	199 287 266
1 1/2	40	10	620	199 287 267
2	50	10	1230	199 287 268

NPT [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
3/8	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
1/2	50	159	28	62	97	40	77	8	114	194	72	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	85	43	25	261	76
1	68	168	36	71	97	40	77	8	154	194	98	49	25	261	76
1 1/4	84	203	45	84	119	51	99	9	180	224	118	59	45	305	95
1 1/2	97	203	51	84	119	51	99	9	203	224	135	68	45	305	95
2	124	225	65	106	119	51	99	9	258	224	176	88	45	305	95

NPT [inch]	L7 [mm]	M	z [mm]	z1 [mm]
3/8	48	6	86	43
1/2	48	6	80	40
3/4	48	6	95	48
1	48	6	110	55
1 1/4	59	8	132	66
1 1/2	59	8	157	79
2	59	8	210	105

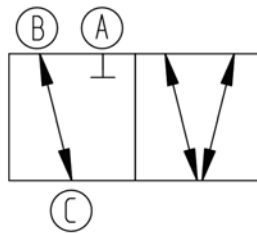
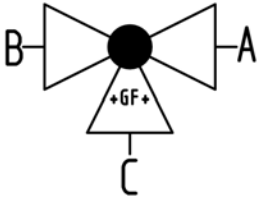


SYGEF Standard metric

SYGEF Standard 3-Way ball valve type 287 Horizontal/T-port Without manual override With fusion sockets metric

Model:

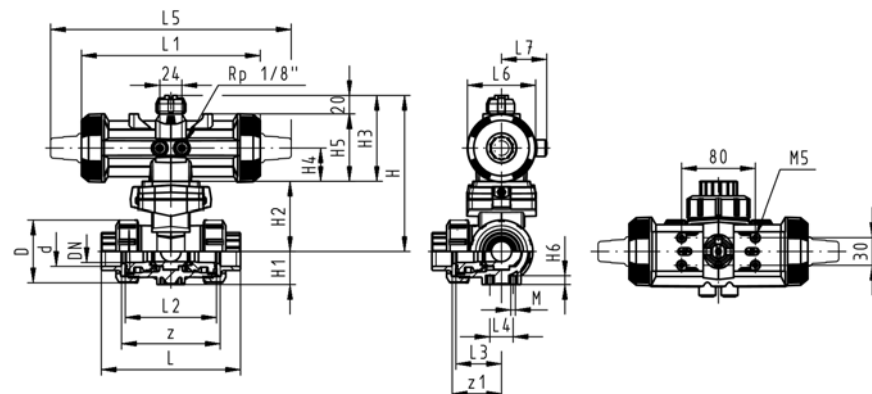
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	140	199 287 112
20	15	10	200	199 287 113
25	20	10	470	199 287 114
32	25	10	793	199 287 115
40	32	10	1290	199 287 116
50	40	10	1910	199 287 117
63	50	10	3100	199 287 118

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	110	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	129	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	146	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	170	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	193	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	244	224	176	88	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	82	41
20	48	6	82	41
25	48	6	97	49
32	48	6	110	55
40	59	8	132	66
50	59	8	151	76
63	59	8	188	94



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 287

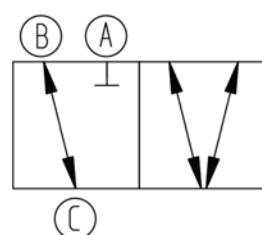
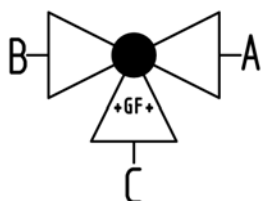
Horizontal/T-port

Without manual override

With socket fusion spigots metric

Model:

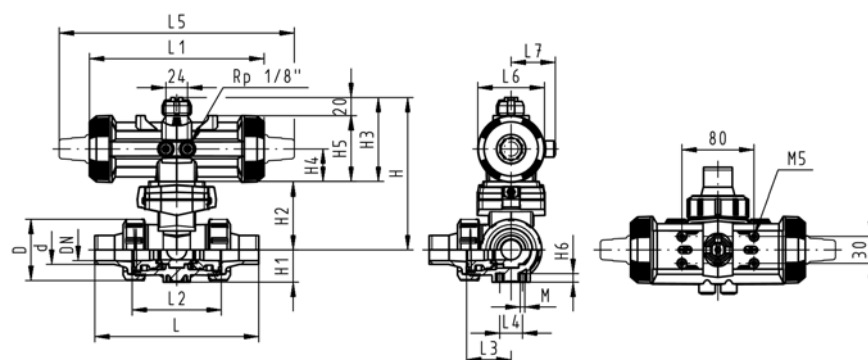
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	140	199 287 032
20	15	10	200	199 287 033
25	20	10	470	199 287 034
32	25	10	793	199 287 035
40	32	10	1290	199 287 036
50	40	10	1910	199 287 037
63	50	10	3100	199 287 038

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	126	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	136	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	159	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 287

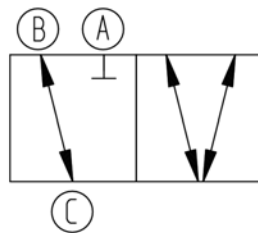
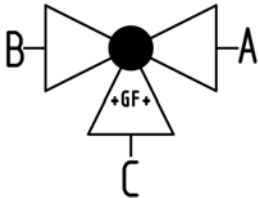
Horizontal/T-port

Without manual override

With butt fusion spigots IR-Plus metric

Model:

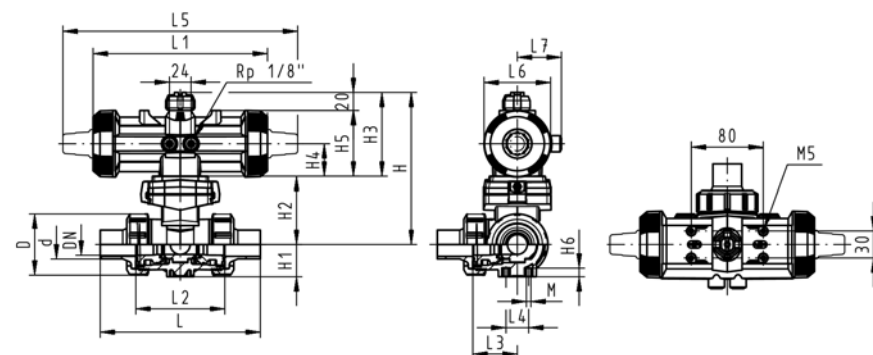
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	10	200	199 287 073
25	20	10	470	199 287 074
32	25	10	793	199 287 075
40	32	10	1290	199 287 076
50	40	10	1910	199 287 077
63	50	10	3100	199 287 078

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	28	62	97	40	77	8	146	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	163	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8

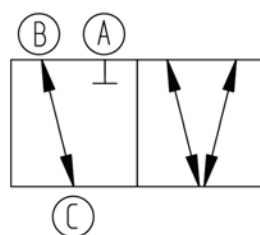
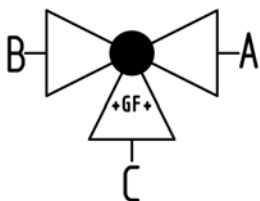


SYGEF Standard metric

SYGEF Standard 3-Way ball valve type 287 Horizontal/T-port Without manual override With threaded sockets NPT

Model:

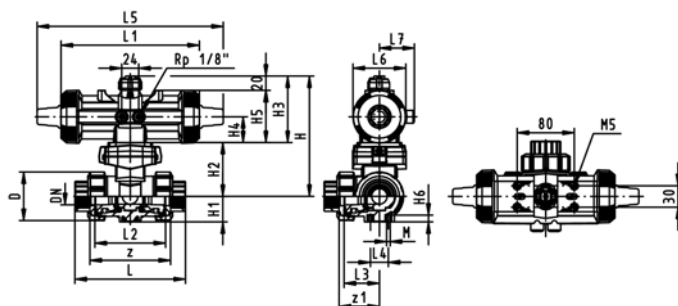
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



NPT [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	140	199 287 252
1/2	15	10	200	199 287 253
3/4	20	10	470	199 287 254
1	25	10	793	199 287 255
1 1/4	32	10	1290	199 287 256
1 1/2	40	10	1910	199 287 257
2	50	10	3100	199 287 258

NPT [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
3/8	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
1/2	50	159	28	62	97	40	77	8	114	194	72	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	85	43	25	261	76
1	68	168	36	71	97	40	77	8	154	194	98	49	25	261	76
1 1/4	84	203	45	84	119	51	99	9	180	224	118	59	45	305	95
1 1/2	97	203	51	84	119	51	99	9	203	224	135	68	45	305	95
2	124	225	65	106	119	51	99	9	258	224	176	88	45	305	95

NPT [inch]	L7 [mm]	M	z [mm]	z1 [mm]
3/8	48	6	86	43
1/2	48	6	80	40
3/4	48	6	95	48
1	48	6	110	55
1 1/4	59	8	132	66
1 1/2	59	8	157	79
2	59	8	210	105



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 287

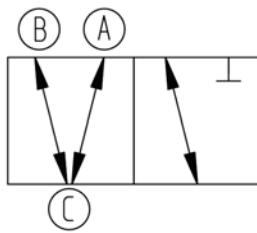
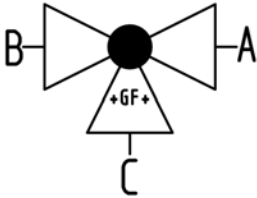
Horizontal/T-port DA (Double acting)

Without manual override

With fusion sockets metric

Model:

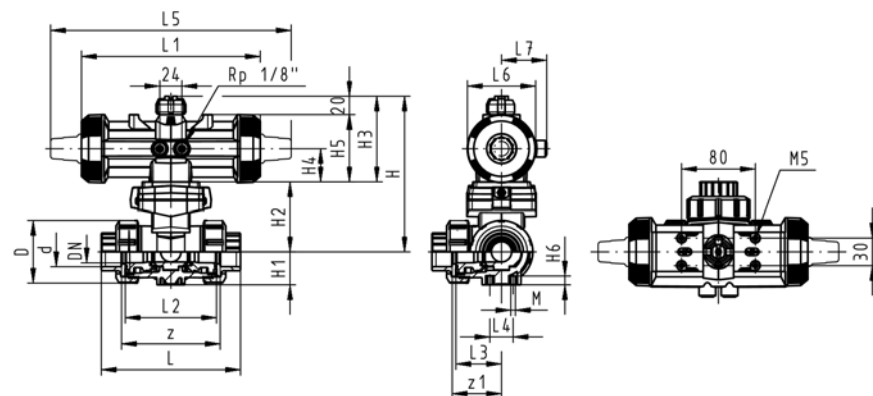
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
16	10	10	140	199 287 232
20	15	10	200	199 287 233
25	20	10	470	199 287 234
32	25	10	793	199 287 235
40	32	10	1290	199 287 236
50	40	10	1910	199 287 237
63	50	10	3100	199 287 238

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	110	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	129	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	146	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	170	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	193	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	244	224	176	88	45	305	95

d [mm]	L7 [mm]	M	z [mm]	z1 [mm]
16	48	6	82	41
20	48	6	82	41
25	48	6	97	49
32	48	6	110	55
40	59	8	132	66
50	59	8	151	76
63	59	8	188	94



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 287

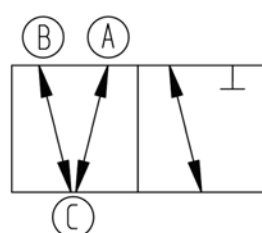
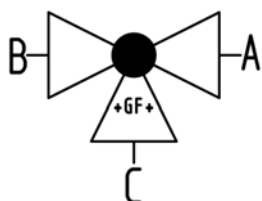
Horizontal/T-port DA (Double acting)

Without manual override

With socket fusion spigots metric

Model:

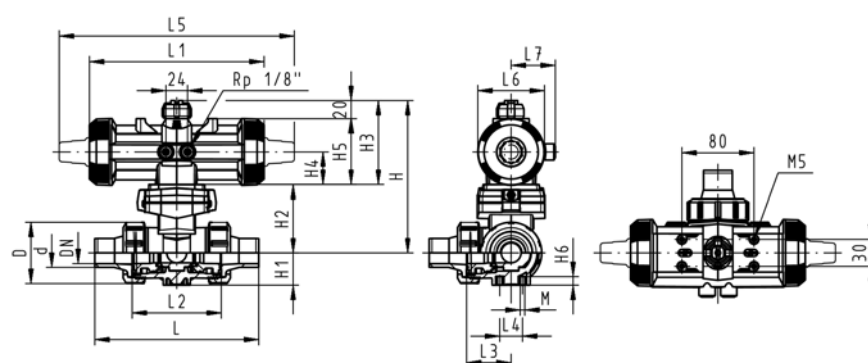
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	FPM Code
16	10	10	140	199 287 152
20	15	10	200	199 287 153
25	20	10	470	199 287 154
32	25	10	793	199 287 155
40	32	10	1290	199 287 156
50	40	10	1910	199 287 157
63	50	10	3100	199 287 158

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
16	50	159	28	62	97	40	77	8	126	194	72	36	25	261	76
20	50	159	28	62	97	40	77	8	136	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	159	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
16	48	6
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 287

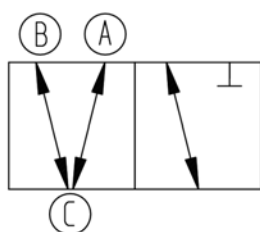
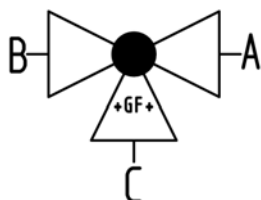
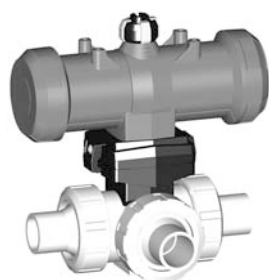
Horizontal/T-port DA (Double acting)

Without manual override

With butt fusion spigots IR-Plus metric

Model:

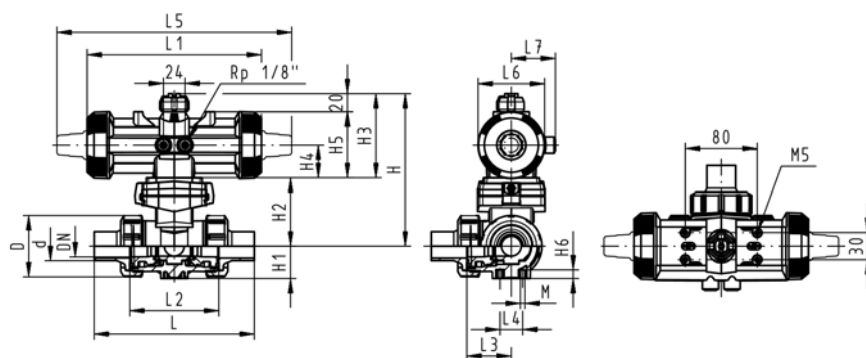
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time $90^\circ <$ 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
20	15	10	140	199 287 193
25	20	10	200	199 287 194
32	25	10	470	199 287 195
40	32	10	793	199 287 196
50	40	10	1290	199 287 197
63	50	10	3100	199 287 198

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
20	50	159	28	62	97	40	77	8	146	194	72	36	25	261	76
25	58	168	32	71	97	40	77	8	163	194	85	43	25	261	76
32	68	168	36	71	97	40	77	8	178	194	98	49	25	261	76
40	84	203	45	84	119	51	99	9	204	224	118	59	45	305	95
50	97	203	51	84	119	51	99	9	237	224	135	68	45	305	95
63	124	225	65	106	119	51	99	9	296	224	176	88	45	305	95

d [mm]	L7 [mm]	M
20	48	6
25	48	6
32	48	6
40	59	8
50	59	8
63	59	8



SYGEF Standard metric

SYGEF Standard

3-Way ball valve type 287

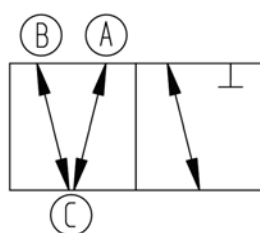
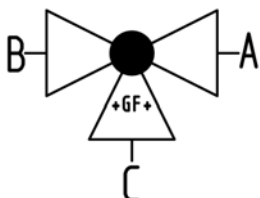
Horizontal/T-port DA (Double acting)

Without manual override

With threaded sockets NPT

Model:

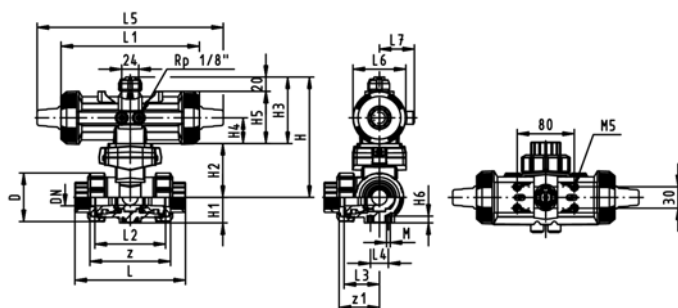
- Material: PVDF
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



NPT [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
3/8	10	10	140	199 287 272
1/2	15	10	200	199 287 273
3/4	20	10	470	199 287 274
1	25	10	793	199 287 275
1 1/4	32	10	1290	199 287 276
1 1/2	40	10	1910	199 287 277
2	50	10	3100	199 287 278

NPT [inch]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]
3/8	50	159	28	62	97	40	77	8	112	194	72	36	25	261	76
1/2	50	159	28	62	97	40	77	8	114	194	72	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	85	43	25	261	76
1	68	168	36	71	97	40	77	8	154	194	98	49	25	261	76
1 1/4	84	203	45	84	119	51	99	9	180	224	118	59	45	305	95
1 1/2	97	203	51	84	119	51	99	9	203	224	135	68	45	305	95
2	124	225	65	106	119	51	99	9	258	224	176	88	45	305	95

NPT [inch]	L7 [mm]	M	z [mm]	z1 [mm]
3/8	48	6	86	43
1/2	48	6	80	40
3/4	48	6	95	48
1	48	6	110	55
1 1/4	59	8	132	66
1 1/2	59	8	157	79
2	59	8	210	105



SYGEF Standard metric

Butterfly valves electric

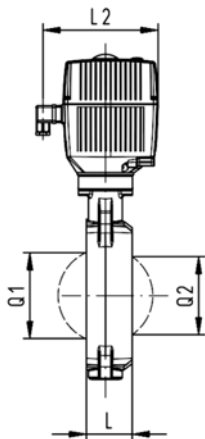
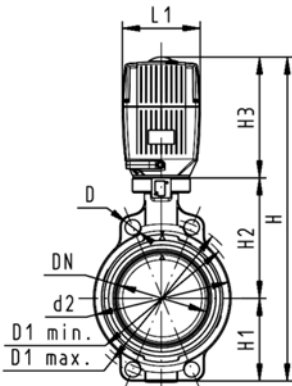
SYGEF Standard

Butterfly valve type 140 100-230V

Without manual override

Model:

- Material: PVDF
- 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
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code
63	50	2	10	1470	199 140 582	199 140 642
75	65	2 ½	10	2200	199 140 583	199 140 643
90	80	3	10	3000	199 140 584	199 140 644
110	100	4	10	6500	199 140 585	199 140 645
140	125	5	10	11500	199 140 586	199 140 646
160	150	6	10	16600	199 140 587	199 140 647
225	200	8	10	39600	199 140 588	199 140 648
280	250	10	6	55200	199 140 589	199 140 649
315	300	12	4	80000	199 140 590	199 140 650

d [mm]	Actuator unit type	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]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180	210
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180	256

d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

SYGEF Standard metric

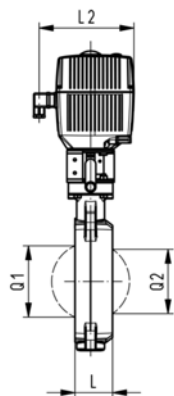
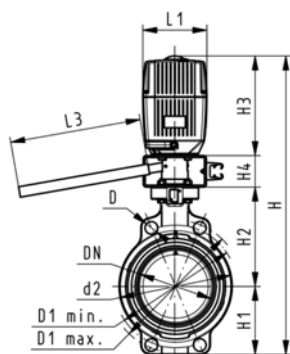
SYGEF Standard

Butterfly valve type 140 100-230V

With manual override

Model:

- Material: PVDF
- 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
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
63	50	2	10	1470	199 140 562
75	65	2 ½	10	2200	199 140 563
90	80	3	10	3000	199 140 564
110	100	4	10	6500	199 140 565
140	125	5	10	11500	199 140 566
160	150	6	10	16600	199 140 567
225	200	8	10	39600	199 140 568

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

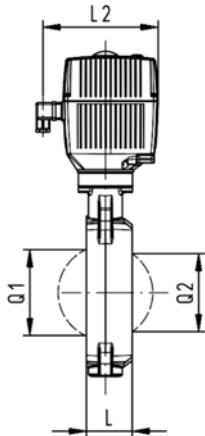
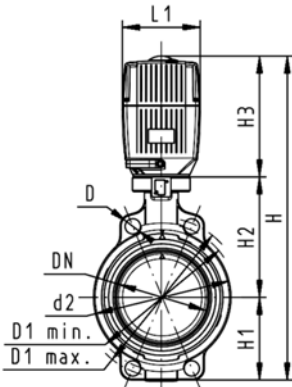
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

SYGEF Standard metric

SYGEF Standard Butterfly valve type 140 24V Without manual override

Model:

- Material: PVDF
- 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
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code	
63	50	2	10	1470	199 140 622	199 140 662	
75	65	2 ½	10	2200	199 140 623	199 140 663	
90	80	3	10	3000	199 140 624	199 140 664	
110	100	4	10	6500	199 140 625	199 140 665	
140	125	5	10	11500	199 140 626	199 140 666	
160	150	6	10	16600	199 140 627	199 140 667	
225	200	8	10	39600	199 140 628	199 140 668	
280	250	10	6	55200	199 140 629	199 140 669	
315	300	12	4	80000	199 140 630	199 140 670	

d [mm]	Actuator unit type	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]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180	210
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180	256

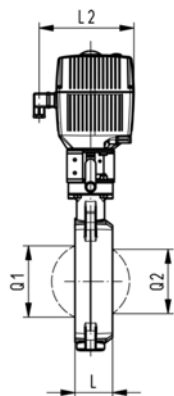
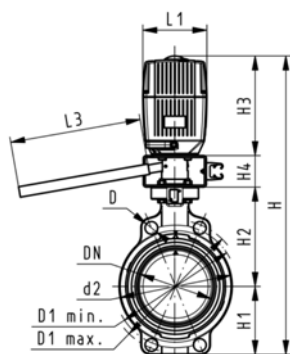
d [mm]	Q2 [mm]	
63		
75	35	
90	50	
110	74	
140	97	
160	123	
225	169	
280	207	
315	253	

SYGEF Standard metric

SYGEF Standard Butterfly valve type 140 24V With manual override

Model:

- Material: PVDF
- 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
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
63	50	2	10	1470	199 140 602
75	65	2 ½	10	2200	199 140 603
90	80	3	10	3000	199 140 604
110	100	4	10	6500	199 140 605
140	125	5	10	11500	199 140 606
160	150	6	10	16600	199 140 607
225	200	8	10	39600	199 140 608

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

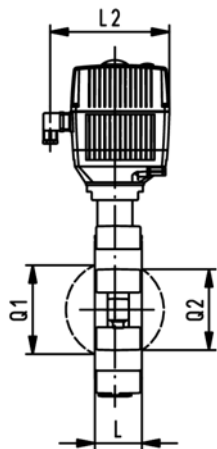
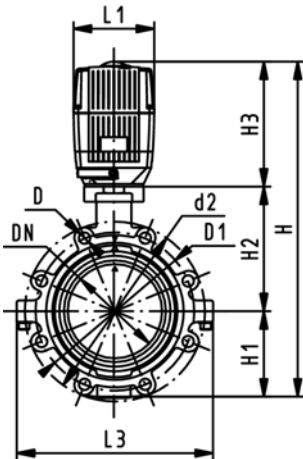
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

SYGEF Standard metric

SYGEF Standard

Lugstyle butterfly valve type 141 100-230V

Without manual override



Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code
63	50	2	10	1470	199 141 582	199 141 642
75	65	2 ½	10	2200	199 141 583	199 141 643
90	80	3	10	3000	199 141 584	199 141 644
110	100	4	10	6500	199 141 585	199 141 645
140	125	5	10	11500	199 141 586	199 141 646
160	150	6	10	16600	199 141 587	199 141 647
225	200	8	10	39600	199 141 588	199 141 648

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	EA-31	M16	125	150	399	77	134	188	45	122	180	150	40
75	EA-31	M16	145	170	411	83	140	188	46	122	180	160	54
90	EA-31	M16	160	184	423	89	146	188	49	122	180	205	67
110	EA-31	M16	180	216	459	104	167	188	56	122	180	244	88
140	EA-31	M16	210	246	486	117	181	188	64	122	180	272	113
160	EA-31	M20	240	273	507	130	189	188	72	122	180	297	139
225	EA-42	M20	295	334	576	158	210	208	73	122	180	360	178

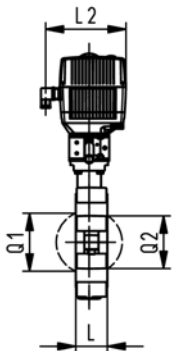
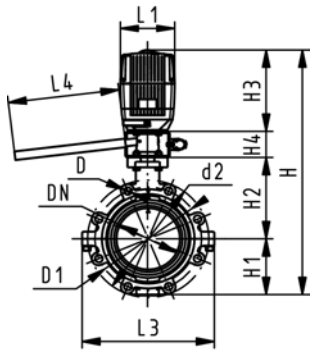
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

SYGEF Standard metric

SYGEF Standard

Lugstyle butterfly valve type 141 100-230V

With manual override



Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
63	50	2	10	1470	199 141 562
75	65	2 ½	10	2200	199 141 563
90	80	3	10	3000	199 141 564
110	100	4	10	6500	199 141 565
140	125	5	10	11500	199 141 566
160	150	6	10	16600	199 141 567
225	200	8	10	39600	199 141 568

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
63	EA-31	M16	125	150	459	77	134	188	60	45	122	180	150
75	EA-31	M16	145	170	471	83	140	188	60	46	122	180	160
90	EA-31	M16	160	184	483	89	146	188	60	49	122	180	205
110	EA-31	M16	180	216	519	104	167	188	60	56	122	180	244
140	EA-31	M16	210	246	546	117	181	188	60	64	122	180	272
160	EA-31	M20	240	273	567	130	189	188	60	72	122	180	297
225	EA-42	M20	295	334	636	158	210	208	60	73	122	180	360

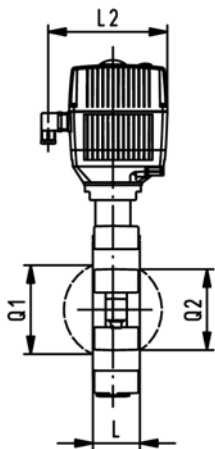
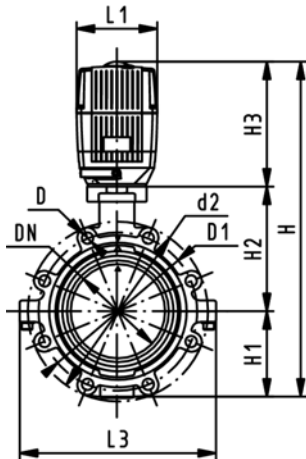
d [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]
63	200	40	
75	200	54	35
90	200	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

SYGEF Standard metric

SYGEF Standard

Lugstyle butterfly valve type 141 24V

Without manual override



Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code
63	50	2	10	1470	199 141 622	199 141 662
75	65	2 ½	10	2200	199 141 623	199 141 663
90	80	3	10	3000	199 141 624	199 141 664
110	100	4	10	6500	199 141 625	199 141 665
140	125	5	10	11500	199 141 626	199 141 666
160	150	6	10	16600	199 141 627	199 141 667
225	200	8	10	39600	199 141 628	199 141 668

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	EA-31	M16	125	150	399	77	134	188	45	122	180	150	40
75	EA-31	M16	145	170	411	83	140	188	46	122	180	160	54
90	EA-31	M16	160	184	423	89	146	188	49	122	180	205	67
110	EA-31	M16	180	216	459	104	167	188	56	122	180	244	88
140	EA-31	M16	210	246	486	117	181	188	64	122	180	272	113
160	EA-31	M20	240	273	507	130	189	188	72	122	180	297	139
225	EA-42	M20	295	334	576	158	210	208	73	122	180	360	178

d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

SYGEF Standard metric

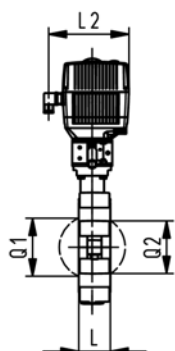
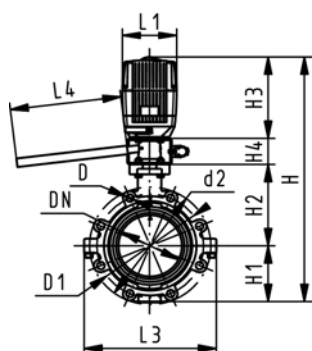
SYGEF Standard

Lugstyle butterfly valve type 141 24V

With manual override

Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



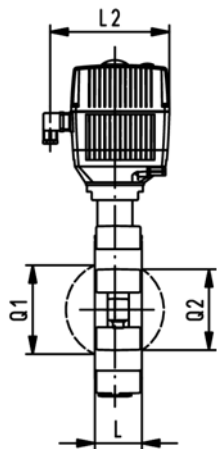
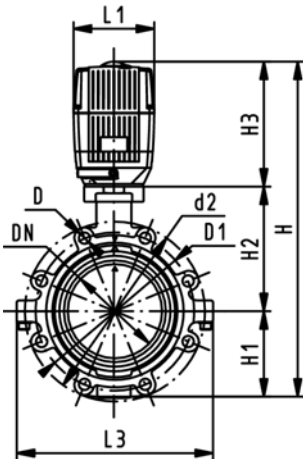
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
63	50	2	10	1470	199 141 602
75	65	2 ½	10	2200	199 141 603
90	80	3	10	3000	199 141 604
110	100	4	10	6500	199 141 605
140	125	5	10	11500	199 141 606
160	150	6	10	16600	199 141 607
225	200	8	10	39600	199 141 608

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
63	EA-31	M16	125	150	459	77	134	188	60	45	122	180	150
75	EA-31	M16	145	170	471	83	140	188	60	46	122	180	160
90	EA-31	M16	160	184	483	89	146	188	60	49	122	180	205
110	EA-31	M16	180	216	519	104	167	188	60	56	122	180	244
140	EA-31	M16	210	246	546	117	181	188	60	64	122	180	272
160	EA-31	M20	240	273	567	130	189	188	60	72	122	180	297
225	EA-42	M20	295	334	636	158	210	208	60	73	122	180	360

d [mm]	L4 [mm]	Q1 [mm]	Q2 [mm]
63	200	40	
75	200	54	35
90	200	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

SYGEF Standard metric

SYGEF Standard Lugstyle butterfly valve type 142 100-230V ANSI Without manual override



Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

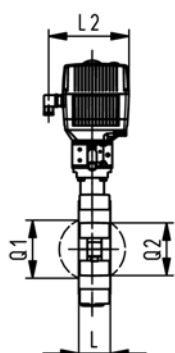
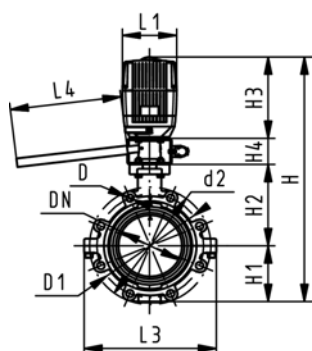
Inch	DN [mm]	d [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code	
2	50	63	10	1470	199 142 582	199 142 642	
2 ½	65	75	10	2200	199 142 583	199 142 643	
3	80	90	10	3000	199 142 584	199 142 644	
4	100	110	10	6500	199 142 585	199 142 645	
5	125	140	10	11500	199 142 586	199 142 646	
6	150	160	10	16600	199 142 587	199 142 647	
8	200	225	10	39600	199 142 588	199 142 648	

Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
2	EA-31	UNC 5/8	121	150	399	77	134	188	45	122	180	150
2 ½	EA-31	UNC 5/8	140	170	411	83	140	188	46	122	180	160
3	EA-31	UNC 5/8	153	177	423	89	146	188	49	122	180	175
4	EA-31	UNC 5/8	191	216	459	104	167	188	56	122	180	244
5	EA-31	UNC 3/4	216	246	486	117	181	188	64	122	180	272
6	EA-31	UNC 3/4	242	273	507	130	189	188	72	122	180	297
8	EA-42	UNC 3/4	299	334	576	158	210	208	73	122	180	360

Inch	Q1 [mm]	Q2 [mm]	
2	40		
2 ½	54	35	
3	67	50	
4	88	74	
5	113	97	
6	139	123	
8	178	169	

SYGEF Standard metric

SYGEF Standard Lugstyle butterfly valve type 142 100-230V ANSI With manual override



Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

Inch	DN [mm]	d [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
2	50	63	10	1470	199 142 562
2 ½	65	75	10	2200	199 142 563
3	80	90	10	3000	199 142 564
4	100	110	10	6500	199 142 565
5	125	140	10	11500	199 142 566
6	150	160	10	16600	199 142 567
8	200	225	10	39600	199 142 568

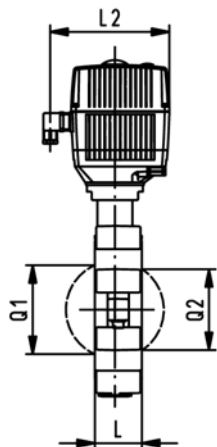
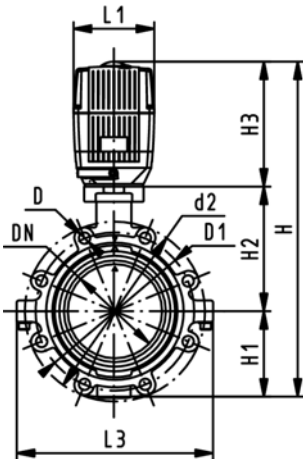
Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
2	EA-31	UNC 5/8	121	150	459	77	134	188	60	45	122	180	150
2 ½	EA-31	UNC 5/8	140	170	471	83	140	188	60	46	122	180	160
3	EA-31	UNC 5/8	153	177	483	89	146	188	60	49	122	180	175
4	EA-31	UNC 5/8	191	216	519	104	167	188	60	56	122	180	244
5	EA-31	UNC 3/4	216	246	546	117	181	188	60	64	122	180	272
6	EA-31	UNC 3/4	242	273	567	130	189	188	60	72	122	180	297
8	EA-42	UNC 3/4	299	334	636	158	210	208	60	73	122	180	360

Inch	L4 [mm]	Q1 [mm]	Q2 [mm]
2	200	40	
2 ½	200	54	35
3	200	67	50
4	250	88	74
5	250	113	97
6	250	139	123
8	250	178	169

SYGEF Standard metric

SYGEF Standard

Lugstyle butterfly valve type 142 24V ANSI Without manual override



Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

Inch	DN [mm]	d [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code	
2	50	63	10	1470	199 142 622	199 142 662	
2 ½	65	75	10	2200	199 142 623	199 142 663	
3	80	90	10	3000	199 142 624	199 142 664	
4	100	110	10	6500	199 142 625	199 142 665	
5	125	140	10	11500	199 142 626	199 142 666	
6	150	160	10	16600	199 142 627	199 142 667	
8	200	225	10	39600	199 142 628	199 142 668	

Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	
2	EA-31	UNC 5/8	121	150	399	77	134	188	45	122	180	150	
2 ½	EA-31	UNC 5/8	140	170	411	83	140	188	46	122	180	160	
3	EA-31	UNC 5/8	153	177	423	89	146	188	49	122	180	175	
4	EA-31	UNC 5/8	191	216	459	104	167	188	56	122	180	244	
5	EA-31	UNC 3/4	216	246	486	117	181	188	64	122	180	272	
6	EA-31	UNC 3/4	242	273	507	130	189	188	72	122	180	297	
8	EA-42	UNC 3/4	299	334	576	158	210	208	73	122	180	360	

Inch	Q1 [mm]	Q2 [mm]	
2	40		
2 ½	54	35	
3	67	50	
4	88	74	
5	113	97	
6	139	123	
8	178	169	

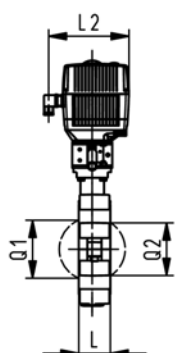
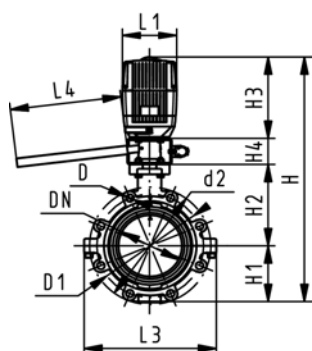
SYGEF Standard metric

SYGEF Standard

Lugstyle butterfly valve type 142 24V ANSI With manual override

Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard



Inch	DN [mm]	d [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
2	50	63	10	1470	199 142 602
2 ½	65	75	10	2200	199 142 603
3	80	90	10	3000	199 142 604
4	100	110	10	6500	199 142 605
5	125	140	10	11500	199 142 606
6	150	160	10	16600	199 142 607
8	200	225	10	39600	199 142 608

Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]
2	EA-31	UNC 5/8	121	150	459	77	134	188	60	45	122	180	150
2 ½	EA-31	UNC 5/8	140	170	471	83	140	188	60	46	122	180	160
3	EA-31	UNC 5/8	153	177	483	89	146	188	60	49	122	180	175
4	EA-31	UNC 5/8	191	216	519	104	167	188	60	56	122	180	244
5	EA-31	UNC 3/4	216	246	546	117	181	188	60	64	122	180	272
6	EA-31	UNC 3/4	242	273	567	130	189	188	60	72	122	180	297
8	EA-42	UNC 3/4	299	334	636	158	210	208	60	73	122	180	360

Inch	L4 [mm]	Q1 [mm]	Q2 [mm]
2	200	40	
2 ½	200	54	35
3	200	67	50
4	250	88	74
5	250	113	97
6	250	139	123
8	250	178	169

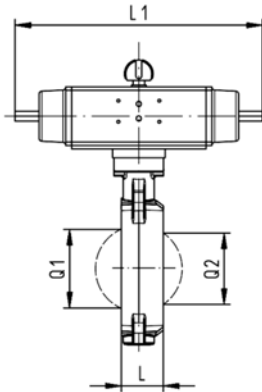
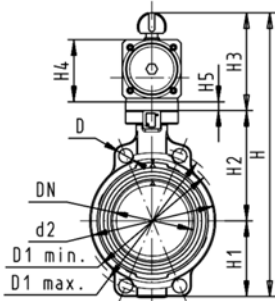
SYGEF Standard metric

Butterfly valves pneumatic

SYGEF Standard Butterfly valve type 240 FC (Fail safe to close) Without manual override

Model:

- Material: PVDF
- 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
- Overall length according to EN 558, ISO 5752
- Control range 90°<



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code	
63	50	2	10	1470	199 240 462	199 240 522	
75	65	2 ½	10	2200	199 240 463	199 240 523	
90	80	3	10	3000	199 240 464	199 240 524	
110	100	4	10	6500	199 240 465	199 240 525	
140	125	5	10	11500	199 240 466	199 240 526	
160	150	6	10	16600	199 240 467	199 240 527	
225	200	8	10	39600	199 240 468	199 240 528	
280	250	10	10	55200	199 240 469	199 240 529	
315	300	12	10	80000	199 240 470	199 240 530	

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FC	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FC	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FC	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FC	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FC	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FC	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FC	23	290.0	295.0	267	529	158	210	161	118		73	452
280	PA-65 FC	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FC	25	400.0	432.0	379	866	228	285	196	157		113	663

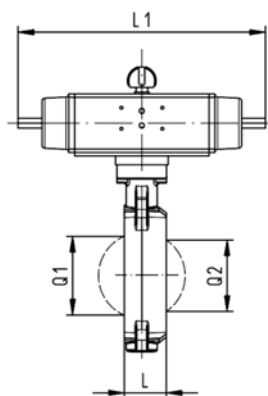
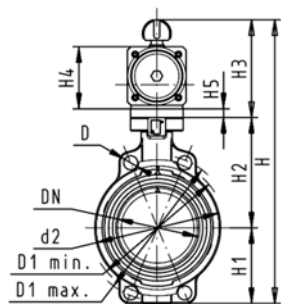
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]	
63	65	40		
75	65	54	35	
90	72	67	50	
110	80	88	74	
140	90	113	97	
160	100	139	123	
225	112	178	169	
280	137	210	207	
315	145	256	253	

SYGEF Standard metric

SYGEF Standard Butterfly valve type 240 FO (Fail safe to open) Without manual override

Model:

- Material: PVDF
- 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
- Overall length according to EN 558, ISO 5752
- Control range 90°<



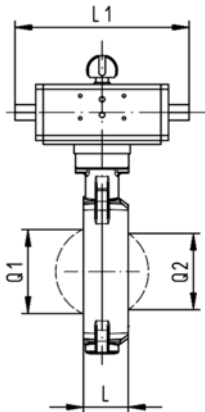
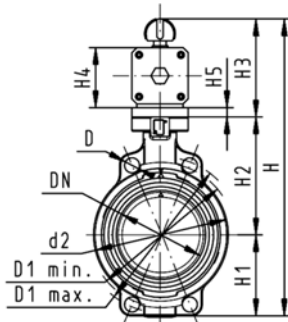
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code
63	50	2	10	1470	199 240 482	199 240 542
75	65	2 ½	10	2200	199 240 483	199 240 543
90	80	3	10	3000	199 240 484	199 240 544
110	100	4	10	6500	199 240 485	199 240 545
140	125	5	10	11500	199 240 486	199 240 546
160	150	6	10	16600	199 240 487	199 240 547
225	200	8	10	39600	199 240 488	199 240 548
280	250	10	10	55200	199 240 489	199 240 549
315	300	12	10	80000	199 240 490	199 240 550

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FO	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FO	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FO	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FO	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FO	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FO	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FO	23	290.0	295.0	267	529	158	210	161	118		73	452
280	PA-70 FO	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FO	25	400.0	432.0	379	866	228	285	196	157		113	663

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169
280	137	210	207
315	145	256	253

SYGEF Standard metric

SYGEF Standard Butterfly valve type 240 DA (Double acting) Without manual override



Model:

- Material: PVDF
- 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
- Overall length according to EN 558, ISO 5752
- Control range 90°<

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code	
63	50	2	10	1470	199 240 502	199 240 562	
75	65	2 ½	10	2200	199 240 503	199 240 563	
90	80	3	10	3000	199 240 504	199 240 564	
110	100	4	10	6500	199 240 505	199 240 565	
140	125	5	10	11500	199 240 506	199 240 566	
160	150	6	10	16600	199 240 507	199 240 567	
225	200	8	10	39600	199 240 508	199 240 568	
280	250	10	10	55200	199 240 509	199 240 569	
315	300	12	10	80000	199 240 510	199 240 570	

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	
63	PA-35 DA	19	120.0	125.0	104	317	77	134	107	60	15	45	177	
75	PA-35 DA	19	139.7	145.0	115	330	83	140	107	60	15	46	177	
90	PA-40 DA	19	150.0	160.0	131	348	89	146	113	66	15	49	190	
110	PA-45 DA	19	175.0	190.5	161	372	104	167	102	71		56	235	
140	PA-45 DA	23	210.0	215.9	187	408	117	181	111	78		64	235	
160	PA-55 DA	24	241.3	241.3	215	448	130	189	129	86		72	279	
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279	
280	PA-65 DA	25	353.0	362.0	329	748	205	264	161	118		113	350	
315	PA-70 DA	25	400.0	432.0	379	816	228	285	173	130		113	381	

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]	
63	55	40		
75	55	54	35	
90	60	67	50	
110	65	88	74	
140	72	113	97	
160	80	139	123	
225	90	178	169	
280	112	210	207	
315	125	256	253	

SYGEF Standard metric

SYGEF Standard

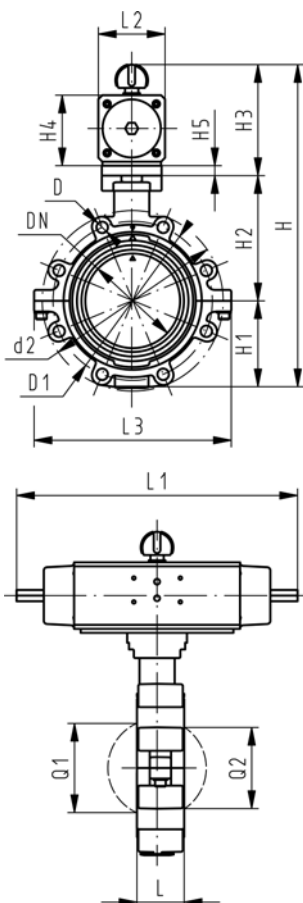
Lugstyle butterfly valve type 241

FC (Fail safe to close)

Without manual override

Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<



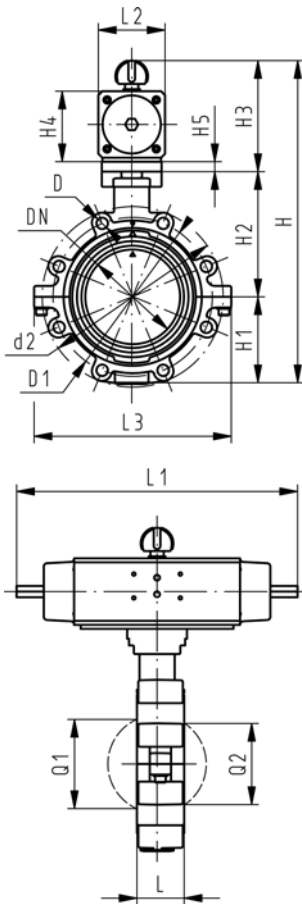
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code	
63	50	2	10	1470	199 241 462	199 241 522	
75	65	2 ½	10	2200	199 241 463	199 241 523	
90	80	3	10	3000	199 241 464	199 241 524	
110	100	4	10	6500	199 241 465	199 241 525	
140	125	5	10	11500	199 241 466	199 241 526	
160	150	6	10	16600	199 241 467	199 241 527	
225	200	8	10	39600	199 241 468	199 241 528	

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	
63	PA-30 FC	M16	125	150	328	77	134	117	70	15	45	276	65	
75	PA-30 FC	M16	145	170	340	83	140	117	70	15	46	276	65	
90	PA-35 FC	M16	160	184	361	89	146	126	78	15	49	326	72	
110	PA-40 FC	M16	180	216	400	104	167	129	86		56	370	80	
140	PA-45 FC	M16	210	246	437	117	181	139	96		64	411	90	
160	PA-50 FC	M20	240	273	468	130	189	149	106		72	423	100	
225	PA-55 FC	M20	295	334	529	158	210	161	118		73	452	112	

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]	
63	150	40		
75	160	54	35	
90	205	67	50	
110	244	88	74	
140	272	113	97	
160	297	139	123	
225	360	178	169	

SYGEF Standard metric

SYGEF Standard Lugstyle butterfly valve type 241 FO (Fail safe to open) Without manual override



Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code	
63	50	2	10	1470	199 241 482	199 241 542	
75	65	2 ½	10	2200	199 241 483	199 241 543	
90	80	3	10	3000	199 241 484	199 241 544	
110	100	4	10	6500	199 241 485	199 241 545	
140	125	5	10	11500	199 241 486	199 241 546	
160	150	6	10	16600	199 241 487	199 241 547	
225	200	8	10	39600	199 241 488	199 241 548	

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	
63	PA-30 FO	M16	125	150	328	77	134	117	70	15	45	276	65	
75	PA-30 FO	M16	145	170	340	83	140	117	70	15	46	276	65	
90	PA-35 FO	M16	160	184	361	89	146	126	78	15	49	326	72	
110	PA-40 FO	M16	180	216	400	104	167	129	86		56	370	80	
140	PA-45 FO	M16	210	246	437	117	181	139	96		64	411	90	
160	PA-50 FO	M20	240	273	468	130	189	149	106		72	423	100	
225	PA-55 FO	M20	295	334	529	158	210	161	118		73	452	112	

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]	
63	150	40		
75	160	54	35	
90	205	67	50	
110	244	88	74	
140	272	113	97	
160	297	139	123	
225	360	178	169	

SYGEF Standard metric

SYGEF Standard

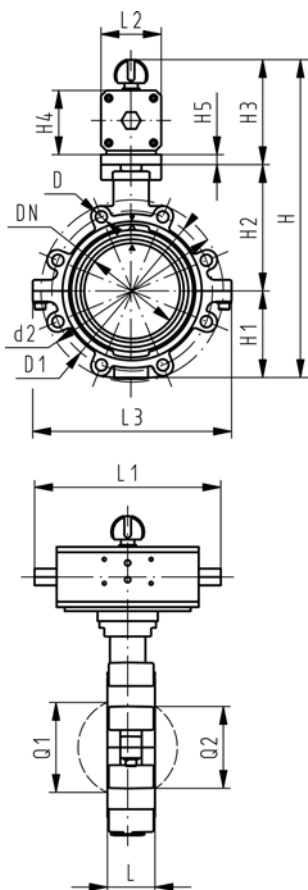
Lugstyle butterfly valve type 241

DA (Double acting)

Without manual override

Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Overall length according to EN 558, ISO 5752
- Control range 90°<



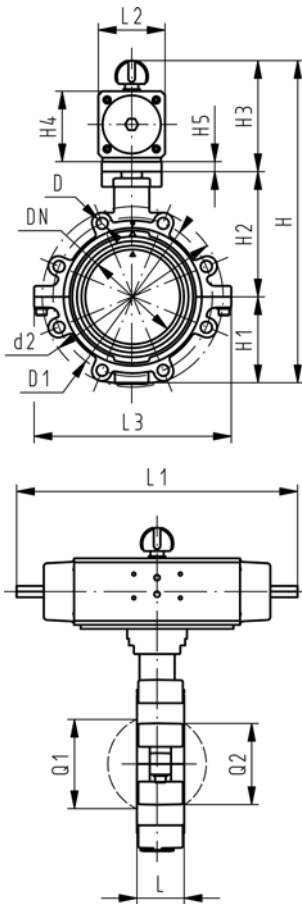
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code	
63	50	2	10	1470	199 241 502	199 241 562	
75	65	2 ½	10	2200	199 241 503	199 241 563	
90	80	3	10	3000	199 241 504	199 241 564	
110	100	4	10	6500	199 241 505	199 241 565	
140	125	5	10	11500	199 241 506	199 241 566	
160	150	6	10	16600	199 241 507	199 241 567	
225	200	8	10	39600	199 241 508	199 241 568	

d [mm]	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	
63	PA-35 DA	M16	125	150	318	77	134	107	60	15	45	177	55	
75	PA-35 DA	M16	145	170	330	83	140	107	60	15	46	177	55	
90	PA-40 DA	M16	160	184	348	89	146	113	66	15	49	190	60	
110	PA-45 DA	M16	180	216	373	104	167	102	71		56	235	65	
140	PA-45 DA	M16	210	246	409	117	181	111	78		64	235	72	
160	PA-55 DA	M20	240	273	448	130	189	129	86		72	279	80	
225	PA-55 DA	M20	295	334	507	158	210	139	96		73	279	90	

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]	
63	150	40		
75	160	54	35	
90	205	67	50	
110	244	88	74	
140	272	113	97	
160	297	139	123	
225	360	178	169	

SYGEF Standard metric

SYGEF Standard Lugstyle butterfly valve type 242 ANSI FC (Fail safe to close) Without manual override



Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Control range 90°<

Inch	DN [mm]	d [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code
2	50	63	10	1470	199 242 462	199 242 522
2 ½	65	75	10	2200	199 242 463	199 242 523
3	80	90	10	3000	199 242 464	199 242 524
4	100	110	10	6500	199 242 465	199 242 525
5	125	140	10	11500	199 242 466	199 242 526
6	150	160	10	16600	199 242 467	199 242 527
8	200	225	10	39600	199 242 468	199 242 528

Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
2	PA-30 FC	UNC 5/8	121	150	328	77	134	117	70	15	45	276	65
2 ½	PA-30 FC	UNC 5/8	140	170	340	83	140	117	70	15	46	276	65
3	PA-35 FC	UNC 5/8	153	177	361	89	146	126	78	15	49	326	72
4	PA-40 FC	UNC 5/8	191	216	400	104	167	129	86		56	370	80
5	PA-45 FC	UNC 3/4	216	246	437	117	181	139	96		64	411	90
6	PA-50 FC	UNC 3/4	242	273	468	130	189	149	106		72	423	100
8	PA-55 FC	UNC 3/4	299	334	529	158	210	161	118		73	452	112

Inch	L3 [mm]	Q1 [mm]	Q2 [mm]
2	150	40	
2 ½	160	54	35
3	175	67	50
4	244	88	74
5	272	113	97
6	297	139	123
8	360	178	169

SYGEF Standard metric

SYGEF Standard

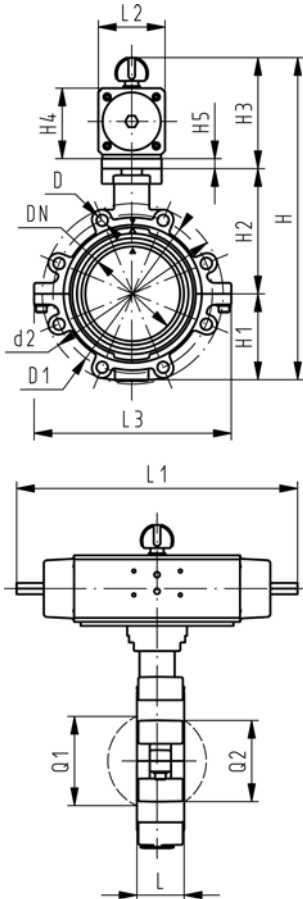
Lugstyle butterfly valve type 242 ANSI

FO (Fail safe to open)

Without manual override

Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Control range 90°<)



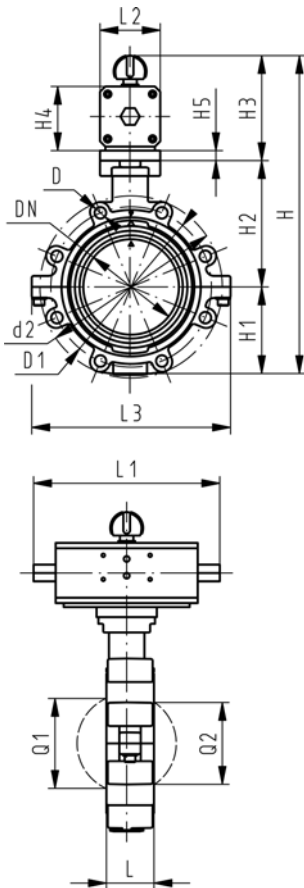
Inch	DN [mm]	d [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code	
2	50	63	10	1470	199 242 482	199 242 542	
2 ½	65	75	10	2200	199 242 483	199 242 543	
3	80	90	10	3000	199 242 484	199 242 544	
4	100	110	10	6500	199 242 485	199 242 545	
5	125	140	10	11500	199 242 486	199 242 546	
6	150	160	10	16600	199 242 487	199 242 547	
8	200	225	10	39600	199 242 488	199 242 548	

Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
2	PA-30 FO	UNC 5/8	121	150	328	77	134	117	70	15	45	276	65
2 ½	PA-30 FO	UNC 5/8	140	170	340	83	140	117	70	15	46	276	65
3	PA-35 FO	UNC 5/8	153	177	361	89	146	126	78	15	49	326	72
4	PA-40 FO	UNC 5/8	191	216	400	104	167	129	86		56	370	80
5	PA-45 FO	UNC 3/4	216	246	437	117	181	139	96		64	411	90
6	PA-50 FO	UNC 3/4	242	273	468	130	189	149	106		72	423	100
8	PA-55 FO	UNC 3/4	299	334	529	158	210	161	118		73	452	112

Inch	L3 [mm]	Q1 [mm]	Q2 [mm]	
2	150	40		
2 ½	160	54	35	
3	175	67	50	
4	244	88	74	
5	272	113	97	
6	297	139	123	
8	360	178	169	

SYGEF Standard metric

SYGEF Standard Lugstyle butterfly valve type 242 ANSI DA (Double acting) Without manual override



Model:

- Material: PVDF
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Overall length according to EN 558, ISO 5752
- Control range 90°<

Inch	DN [mm]	d [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	PTFE Code
2	50	63	10	1470	199 242 502	199 242 562
2 ½	65	75	10	2200	199 242 503	199 242 563
3	80	90	10	3000	199 242 504	199 242 564
4	100	110	10	6500	199 242 505	199 242 565
5	125	140	10	11500	199 242 506	199 242 566
6	150	160	10	16600	199 242 507	199 242 567
8	200	225	10	39600	199 242 508	199 242 568

Inch	Actuator unit type	D	D1 [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]
2	PA-35 DA	UNC 5/8	121	150	318	77	134	107	60	15	45	177	55
2 ½	PA-35 DA	UNC 5/8	140	170	330	83	140	107	60	15	46	177	55
3	PA-40 DA	UNC 5/8	153	177	348	89	146	113	66	15	49	190	60
4	PA-45 DA	UNC 5/8	191	216	373	104	167	102	71		56	235	65
5	PA-45 DA	UNC 3/4	216	246	409	117	181	111	78		64	235	72
6	PA-55 DA	UNC 3/4	242	273	448	130	189	129	86		72	279	80
8	PA-55 DA	UNC 3/4	299	334	507	158	210	139	96		73	279	90

Inch	L3 [mm]	Q1 [mm]	Q2 [mm]
2	150	40	
2 ½	160	54	35
3	175	67	50
4	244	88	74
5	272	113	97
6	297	139	123
8	360	178	169

SYGEF Standard metric

Diaphragm valves pneumatic

New generation



SYGEF Standard

Diaphragm valve DIASTAR Ten

FC (Fail safe to close)

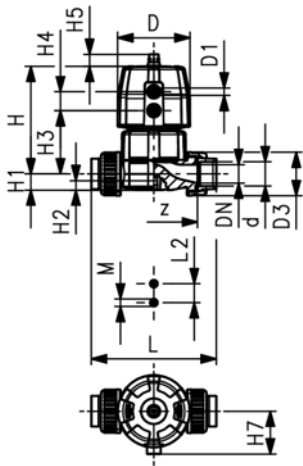
Unions with fusion sockets metric

Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



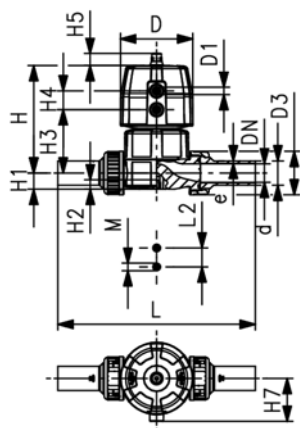
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code											
20	15	10	125	175 624 032											
25	20	10	271	175 624 033											
32	25	10	481	175 624 034											
40	32	10	759	175 624 035											
50	40	10	1263	175 624 036											
63	50	6	1728	175 624 037											

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]	
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	100	7	
25	96	1/8	150	25	132	18	12	73	25	16	57	M6	118	10	
32	96	1/8	162	25	143	22	12	84	25	16	57	M6	126	13	
40	120	1/8	184	45	173	26	15	99	26	26	69	M8	144	15	
50	150	1/4	210	45	214	32	15	119	36	26	88	M8	164	19	
63	150	1/4	248	45	226	39	15	132	36	26	88	M8	194	23	

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close)

Unions with butt fusion spigots metric



Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

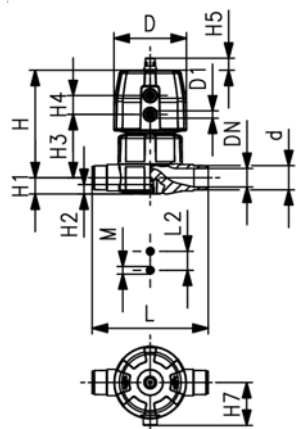
Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code	PTFE/FPM Code	FPM Code
20	15	10	125	175 624 132	800 047 359	800 047 269
25	20	10	271	175 624 133	800 047 360	800 047 343
32	25	10	481	175 624 134	800 047 361	800 047 344
40	32	10	759	175 624 135	800 047 362	800 047 270
50	40	10	1263	175 624 136	800 047 363	800 047 345
63	50	6	1728	175 624 137	800 047 364	800 047 346

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	196	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	1.9
32	96	1/8	234	25	143	22	12	84	25	16	57	M6	13	2.4
40	120	1/8	260	45	173	26	15	99	26	26	69	M8	15	2.4
50	150	1/4	284	45	214	32	15	119	36	26	88	M8	19	3.0
63	150	1/4	321	45	226	39	15	132	36	26	88	M8	23	3.0

SYGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) With socket fusion spigots metric



Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

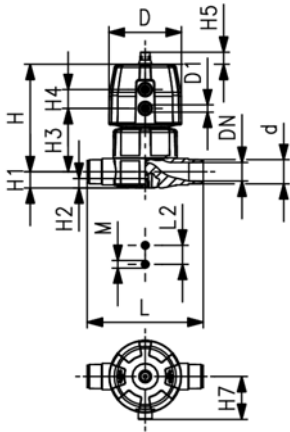
Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	10	125	175 625 032
25	20	10	271	175 625 033
32	25	10	481	175 625 034
40	32	10	759	175 625 035
50	40	10	1263	175 625 036
63	50	6	1728	175 625 037

table continued next page

SYGEF Standard metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	



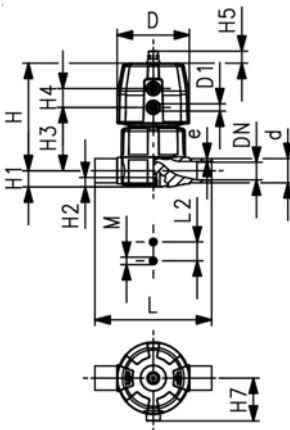
SYGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) With butt fusion spigots metric

Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

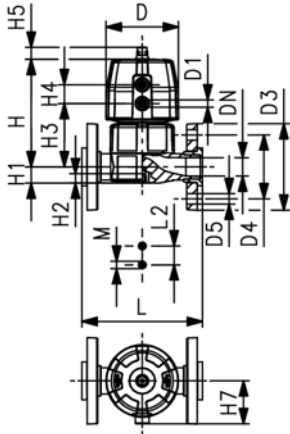
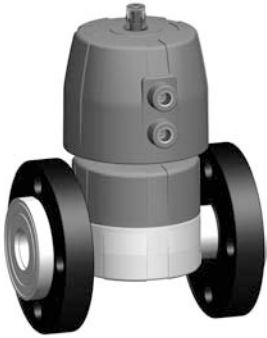


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	PTFE/EPDM Code	
20	15	10	125	175 625 132	
25	20	10	271	175 625 133	
32	25	10	481	175 625 134	
40	32	10	759	175 625 135	
50	40	10	1263	175 625 136	
63	50	6	1728	175 625 137	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	1.9	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.4	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	2.4	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	3.0	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	3.0	

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) With backing flanges PP-V metric/BS



Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

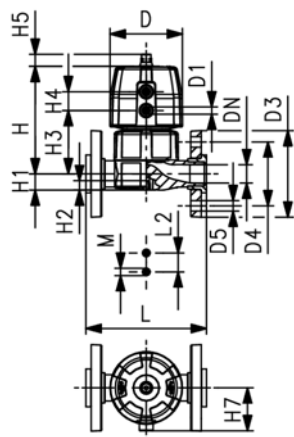
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	10	125	175 627 132
25	20	10	271	175 627 133
32	25	10	481	175 627 134
40	32	10	759	175 627 135
50	40	10	1263	175 627 136
63	50	6	1728	175 627 137

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	43	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	69	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	69	M8
50	150	1/4	150	110	18	200	45	193	32	15	119	36	26	88	M8
63	150	1/4	165	125	18	230	45	205	39	15	132	36	26	88	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Ten FC (Fail safe to close) With backing flanges PP-V Inch ANSI



Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
1/2	15	10	125	175 627 732
3/4	20	10	271	175 627 733
1	25	10	481	175 627 734
1 1/4	32	10	759	175 627 735
1 1/2	40	10	1263	175 627 736
2	50	6	1728	175 627 737

Inch	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
1/2	68	1/8	95	60	16	130	25	101	14	12	60	24	16	43	M6
3/4	96	1/8	105	70	16	150	25	132	18	12	73	25	16	57	M6
1	96	1/8	115	79	16	160	25	143	22	12	84	25	16	69	M6
1 1/4	120	1/8	140	89	16	180	45	173	26	15	99	26	26	69	M8
1 1/2	150	1/4	150	98	16	200	45	193	32	15	119	36	26	88	M8
2	150	1/4	165	121	19	230	45	205	39	15	132	36	26	88	M8

Inch	Lift = Hx [mm]
1/2	7
3/4	10
1	13
1 1/4	15
1 1/2	19
2	23

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) Unions with fusion sockets metric

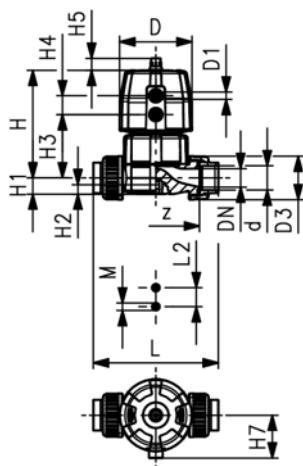


Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	10	125	175 644 032
25	20	10	271	175 644 033
32	25	10	481	175 644 034
40	32	10	759	175 644 035
50	40	10	1263	175 644 036
63	50	10	1728	175 644 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	100	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	118	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	126	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	144	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	164	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	194	23

SYGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) Unions with butt fusion spigots metric

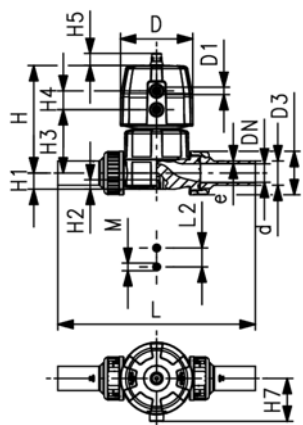


Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

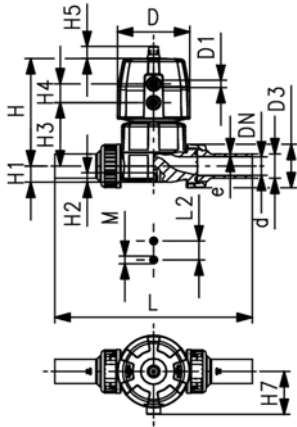
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	10	125	175 644 132
25	20	10	271	175 644 133
32	25	10	481	175 644 134
40	32	10	759	175 644 135
50	40	10	1263	175 644 136
63	50	10	1728	175 644 137

table continued next page

SYGEF Standard metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	196	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	1.9	
32	96	1/8	234	25	143	22	12	84	25	16	57	M6	13	2.4	
40	120	1/8	260	45	173	26	15	99	26	26	69	M8	15	2.4	
50	150	1/4	284	45	214	32	15	119	36	26	69	M8	19	3.0	
63	150	1/4	321	45	226	39	15	132	36	26	69	M8	23	3.0	



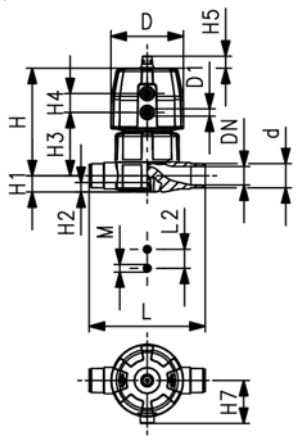
SYGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) With socket fusion spigots metric

Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

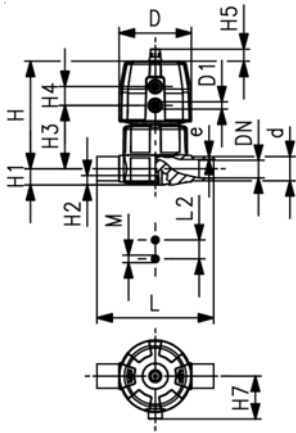


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	PTFE/EPDM Code	
20	15	10	125	175 645 032	
25	20	10	271	175 645 033	
32	25	10	481	175 645 034	
40	32	10	759	175 645 035	
50	40	10	1263	175 645 036	
63	50	10	1728	175 645 037	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) With butt fusion spigots metric



Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

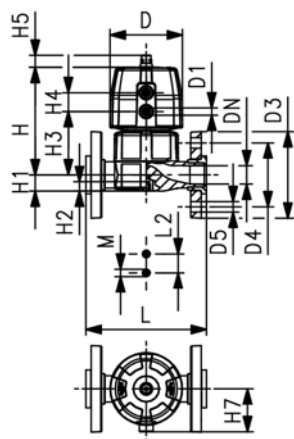
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code											
20	15	10	125	175 645 132											
25	20	10	271	175 645 133											
32	25	10	481	175 645 134											
40	32	10	759	175 645 135											
50	40	10	1263	175 645 136											
63	50	10	1728	175 645 137											

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	1.9	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.4	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	2.4	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	3.0	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	3.0	

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) With backing flanges PP-V metric/BS



Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

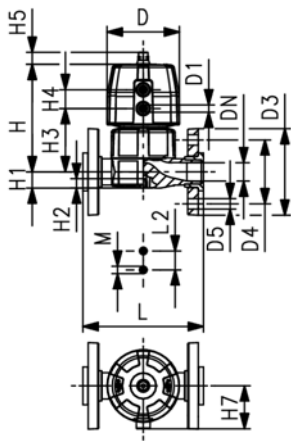
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	10	125	175 647 132
25	20	10	271	175 647 133
32	25	10	481	175 647 134
40	32	10	759	175 647 135
50	40	10	1263	175 647 136
63	50	10	1728	175 647 137

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	57	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	69	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	88	M8
50	150	1/4	150	110	18	200	45	214	32	15	119	36	26	103	M8
63	150	1/4	165	125	18	230	45	226	39	15	132	36	26	103	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Ten FO (Fail safe to open) With backing flanges PP-V Inch ANSI



Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
1/2	15	10	125	175 647 732
3/4	20	10	271	175 647 733
1	25	10	481	175 647 734
1 1/4	32	10	759	175 647 735
1 1/2	40	10	1263	175 647 736
2	50	10	1728	175 647 737

Inch	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
1/2	68	1/8	95	60	16	130	25	101	14	12	60	24	16	57	M6
3/4	96	1/8	105	70	16	150	25	132	18	12	73	25	16	57	M6
1	96	1/8	115	79	16	160	25	143	22	12	84	25	16	69	M6
1 1/4	120	1/8	140	89	16	180	45	173	26	15	99	26	26	88	M8
1 1/2	150	1/4	150	98	16	200	45	214	32	15	119	36	26	103	M8
2	150	1/4	165	121	19	230	45	226	39	15	132	36	26	103	M8

Inch	Lift = Hx [mm]
1/2	7
3/4	10
1	13
1 1/4	15
1 1/2	19
2	23

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) Unions with fusion sockets metric

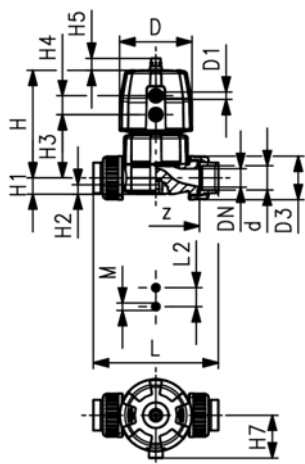


Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	10	125	175 654 032
25	20	10	271	175 654 033
32	25	10	481	175 654 034
40	32	10	759	175 654 035
50	40	10	1263	175 654 036
63	50	10	1728	175 654 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	1/8	128	25	101	14	12	60	24	16	43	M6	100	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	118	10
32	96	1/8	166	25	143	22	12	84	25	16	57	M6	126	13
40	120	1/8	192	45	173	26	15	99	26	26	69	M8	144	15
50	150	1/4	222	45	214	32	15	119	36	26	88	M8	164	19
63	150	1/4	266	45	226	39	15	132	36	26	88	M8	194	23

SYGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) Unions with butt fusion spigots metric

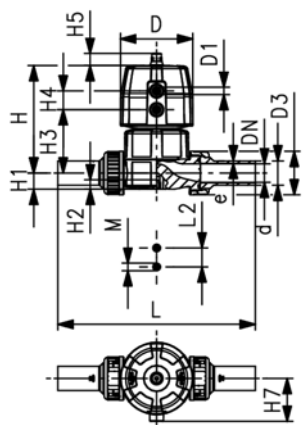


Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

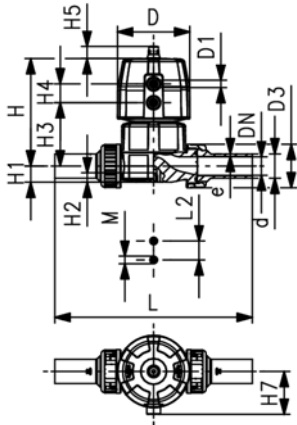
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	10	125	175 654 132
25	20	10	271	175 654 133
32	25	10	481	175 654 134
40	32	10	759	175 654 135
50	40	10	1263	175 654 136
63	50	10	1728	175 654 137

table continued next page

SYGEF Standard metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	196	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	1.9
32	96	1/8	234	25	143	22	12	84	25	16	57	M6	13	2.4
40	120	1/8	260	45	173	26	15	99	26	26	69	M8	15	2.4
50	150	1/4	284	45	214	32	15	119	36	26	69	M8	19	3.0
63	150	1/4	321	45	226	39	15	132	36	26	69	M8	23	3.0



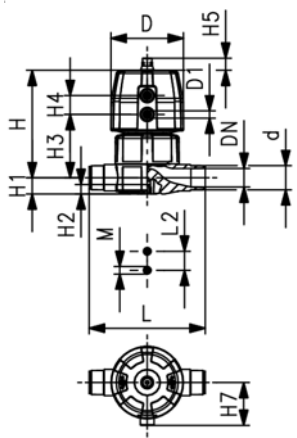
SYGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With socket fusion spigots metric

Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

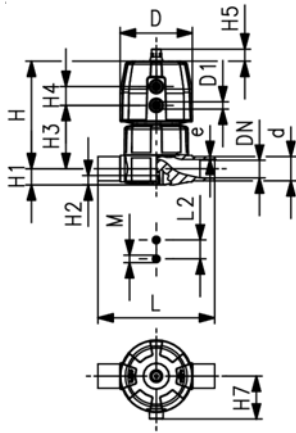


d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	PTFE/EPDM Code
20	15	10	125	175 655 032
25	20	10	271	175 655 033
32	25	10	481	175 655 034
40	32	10	759	175 655 035
50	40	10	1263	175 655 036
63	50	10	1728	175 655 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With butt fusion spigots metric



Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

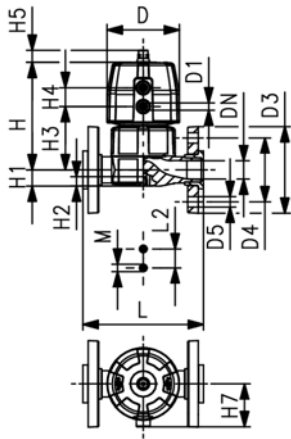
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code										
20	15	10	125	175 655 132										
25	20	10	271	175 655 133										
32	25	10	481	175 655 134										
40	32	10	759	175 655 135										
50	40	10	1263	175 655 136										
63	50	10	1728	175 655 137										

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	1.9	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.4	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	2.4	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	3.0	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	3.0	

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With backing flanges PP-V metric/BS



Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

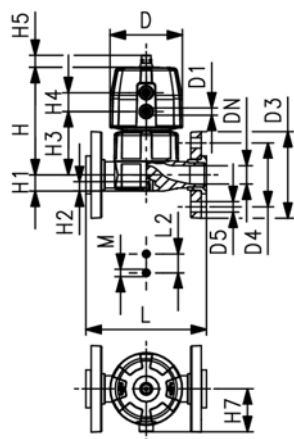
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	10	125	175 657 132
25	20	10	271	175 657 133
32	25	10	481	175 657 134
40	32	10	759	175 657 135
50	40	10	1263	175 657 136
63	50	10	1728	175 657 137

d [mm]	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
20	68	1/8	95	65	14	130	25	101	14	12	60	24	16	57	M6
25	96	1/8	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	96	1/8	115	85	14	160	25	143	22	12	84	25	16	69	M6
40	120	1/8	140	100	18	180	45	173	26	15	99	26	26	88	M8
50	150	1/4	150	110	18	200	45	214	32	15	119	36	26	103	M8
63	150	1/4	165	125	18	230	45	226	39	15	132	36	26	103	M8

d [mm]	Lift = Hx [mm]
20	7
25	10
32	13
40	15
50	19
63	23

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Ten DA (Double acting) With backing flanges PP-V Inch ANSI



Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
1/2	15	10	125	175 657 732
3/4	20	10	271	175 657 733
1	25	10	481	175 657 734
1 1/4	32	10	759	175 657 735
1 1/2	40	10	1263	175 657 736
2	50	10	1728	175 657 737

Inch	D [mm]	D1_G [inch]	D3 [mm]	D4 [mm]	D5 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M
1/2	68	1/8	95	60	16	130	25	101	14	12	60	24	16	57	M6
3/4	96	1/8	105	70	16	150	25	132	18	12	73	25	16	57	M6
1	96	1/8	115	79	16	160	25	143	22	12	84	25	16	69	M6
1 1/4	120	1/8	140	89	16	180	45	173	26	15	99	26	26	88	M8
1 1/2	150	1/4	150	98	16	200	45	214	32	15	119	36	26	103	M8
2	150	1/4	165	121	19	230	45	226	39	15	132	36	26	103	M8

Inch	Lift = Hx [mm]
1/2	7
3/4	10
1	13
1 1/4	15
1 1/2	19
2	23

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) Unions with fusion sockets metric



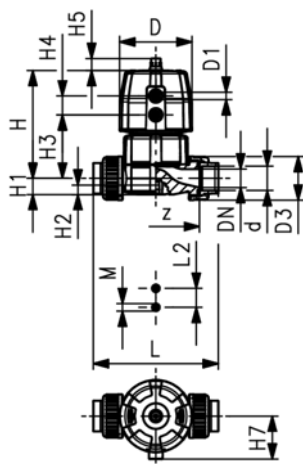
Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM



d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	16/16*	125	175 634 032
25	20	16/16*	271	175 634 033
32	25	16/16*	481	175 634 034
40	32	16/16*	759	175 634 035
50	40	16/16*	1263	175 634 036
63	50	16/10*	1728	175 634 037

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	z [mm]	Lift = Hx [mm]
20	96	1/8	128	25	127	14	12	68	25	16	57	M6	100	7
25	96	1/8	152	25	132	18	12	73	25	16	57	M6	118	10
32	120	1/8	166	25	167	22	12	93	26	26	69	M6	126	13
40	150	1/4	192	45	196	26	15	101	36	26	88	M8	144	15
50	180	1/4	222	45	239	32	15	124	37	26	103	M8	164	19
63	180	1/4	266	45	251	39	15	137	37	26	103	M8	194	23

SYGEF Standard Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) Unions with butt fusion spigots metric



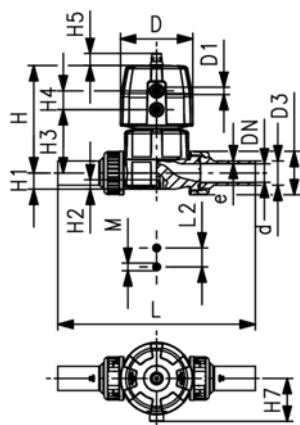
Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

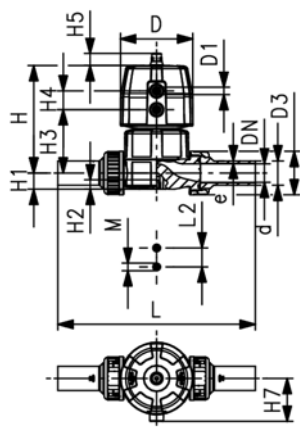
* PN: PTFE/EPDM



d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	16/16*	125	175 634 132
25	20	16/16*	271	175 634 133
32	25	16/16*	481	175 634 134

table continued next page

SYGEF Standard metric



d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code	
40	32	16/16*	759	175 634 135	
50	40	16/16*	1263	175 634 136	
63	50	16/10*	1728	175 634 137	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	96	1/8	196	25	127	14	12	68	25	16	57	M6	7	1.9	
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	1.9	
32	120	1/8	234	25	167	22	12	93	26	26	69	M6	13	2.4	
40	150	1/4	260	45	196	26	15	101	36	26	88	M8	15	2.4	
50	180	1/4	284	45	239	32	15	124	37	26	103	M8	19	3.0	
63	180	1/4	321	45	251	39	15	137	37	26	103	M8	23	3.0	

SYGEF Standard Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) With socket fusion spigots metric

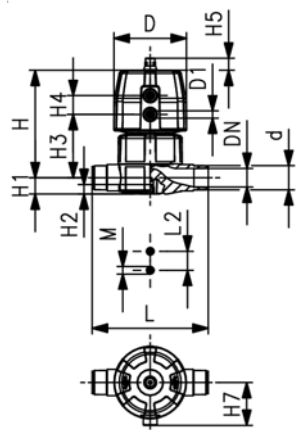
Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM

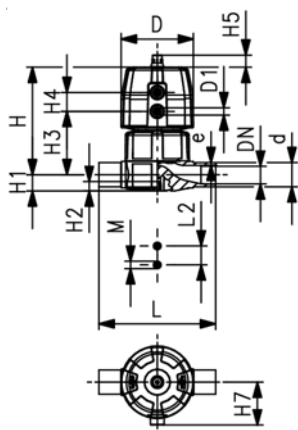


d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code	
20	15	16/16*	125	175 635 032	
25	20	16/16*	271	175 635 033	
32	25	16/16*	481	175 635 034	
40	32	16/16*	759	175 635 035	
50	40	16/16*	1263	175 635 036	
63	50	16/10*	1728	175 635 037	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	
20	96	1/8	124	25	127	14	12	68	25	16	57	M6	7	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	
32	120	1/8	154	25	167	22	12	93	26	26	69	M6	13	
40	150	1/4	174	45	196	26	15	101	36	26	88	M8	15	
50	180	1/4	194	45	239	32	15	124	37	26	103	M8	19	
63	180	1/4	224	45	251	39	15	137	37	26	103	M8	23	

SYGEF Standard metric

SYGEF Standard Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) With butt fusion spigots metric



Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

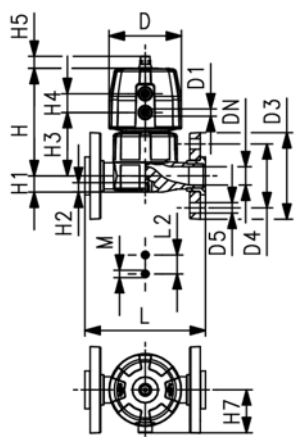
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM

d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code											
20	15	16/16*	125	175 635 132											
25	20	16/16*	271	175 635 133											
32	25	16/16*	481	175 635 134											
40	32	16/16*	759	175 635 135											
50	40	16/16*	1263	175 635 136											
63	50	16/10*	1728	175 635 137											

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	96	1/8	124	25	127	14	12	68	25	16	57	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	1.9	
32	120	1/8	154	25	167	22	12	93	26	26	69	M6	13	2.4	
40	150	1/4	174	45	196	26	15	101	36	26	88	M8	15	2.4	
50	180	1/4	194	45	239	32	15	124	37	26	103	M8	19	3.0	
63	180	1/4	224	45	251	39	15	137	37	26	103	M8	23	3.0	

SYGEF Standard Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) With backing flanges PP-V metric/BS



Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

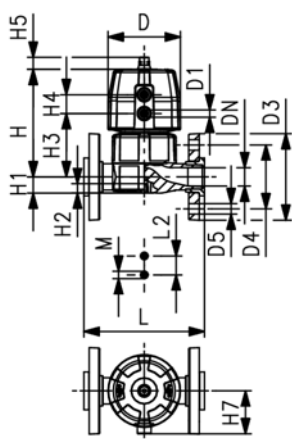
Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code											
20	15	16	125	175 637 132											
25	20	16	271	175 637 133											
32	25	16	481	175 637 134											
40	32	16	759	175 637 135											
50	40	16	1263	175 637 136											
63	50	10	1728	175 637 137											

table continued next page

SYGEF Standard metric



d	D	D1_G	D3	D4	D5	L	L2	H	H1	H2	H3	H4	H5	H7	M
[mm]	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
20	96	⅜	95	65	14	130	25	127	14	12	68	25	16	57	M6
25	96	⅜	105	75	14	150	25	132	18	12	73	25	16	57	M6
32	120	⅜	115	85	14	160	25	167	22	12	93	26	26	69	M6
40	150	¼	140	100	18	180	45	196	26	15	101	36	26	88	M8
50	180	¼	150	110	18	200	45	239	32	15	124	37	26	103	M8
63	180	¼	165	125	18	230	45	251	39	15	137	37	26	103	M8

d	Lift = Hx
[mm]	[mm]
20	7
25	10
32	13
40	15
50	19
63	23



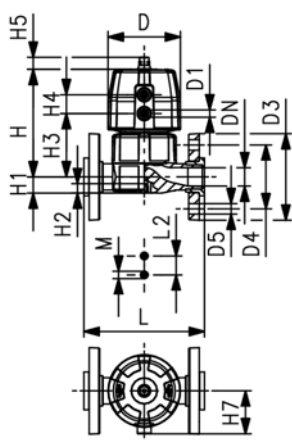
SYGEF Standard Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) With backing flanges PP-V Inch ANSI

Model:

- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces/serrated
- Overall length EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



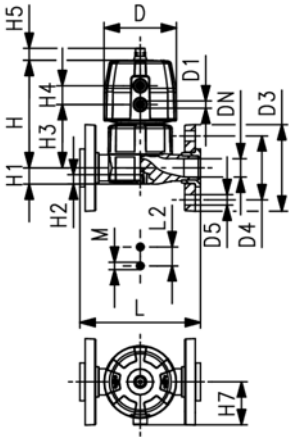
Inch	DN	PN	kv-value (Δp=1 bar)	PTFE/EPDM Code
	[mm]		[l/min]	
½	15	16	125	175 637 732
¾	20	16	271	175 637 733
1	25	16	481	175 637 734
1 ¼	32	16	759	175 637 735
1 ½	40	16	1263	175 637 736
2	50	16	1728	175 637 737

Inch	D	D1_G	D3	D4	D5	L	L2	H	H1	H2	H3	H4	H5	H7	M
	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
½	96	⅜	95	60	16	130	25	127	14	12	68	25	16	57	M6
¾	96	⅜	105	70	16	150	25	132	18	12	73	25	16	57	M6
1	120	⅜	115	79	16	160	25	167	22	12	93	26	26	69	M6
1 ¼	150	¼	140	89	16	180	45	196	26	15	101	36	26	88	M8
1 ½	180	¼	150	98	16	200	45	239	32	15	124	37	26	103	M8
2	180	¼	165	121	19	230	45	251	39	15	137	37	26	103	M8

Inch	Lift = Hx
	[mm]
½	7
¾	10
1	13

table continued next page

SYGEF Standard metric



Inch	Lift = Hx [mm]	
1 ¼	15	
1 ½	19	
2	23	

SYGEF Standard metric

Diaphragm valves pneumatic



SYGEF Standard

Diaphragm valve type DIASTAR 025

Function DA (Double acting)

With fixed flanges PVDF metric

Model:

- Material: PVDF
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: on one side

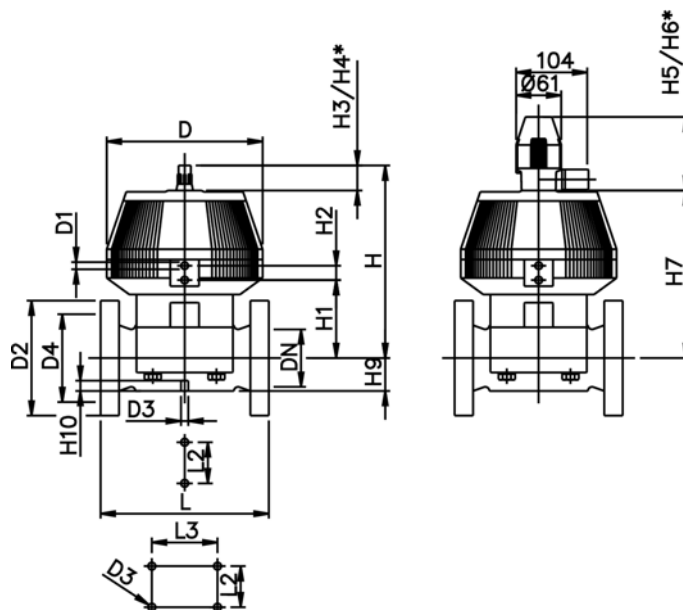
* With backing flanges PP-V

** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
* 75	65	2 ½	10	992	199 025 377
** 90	80	3	10	1700	199 025 378
110	100	4	6	2700	199 025 379
** 160	150	6	6	6033	199 025 380

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	¼	185	8	145	290	70		344	148	24	46	100	129
** 90	280	¼	200	12	160	310	120		348	150	24	46	100	129
110	335	¼	225	12	180	350	120		395	176	24	46	100	129
** 160	335	¼	285	12	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	195	298	46	15
** 90	195	302	57	15
110	195	349	69	20
** 160	195	409	108	20



SYGEF Standard metric

SYGEF Standard

Diaphragm valve type DIASTAR 025

Function DA (Double acting)

With fixed flanges PVDF Inch ANSI

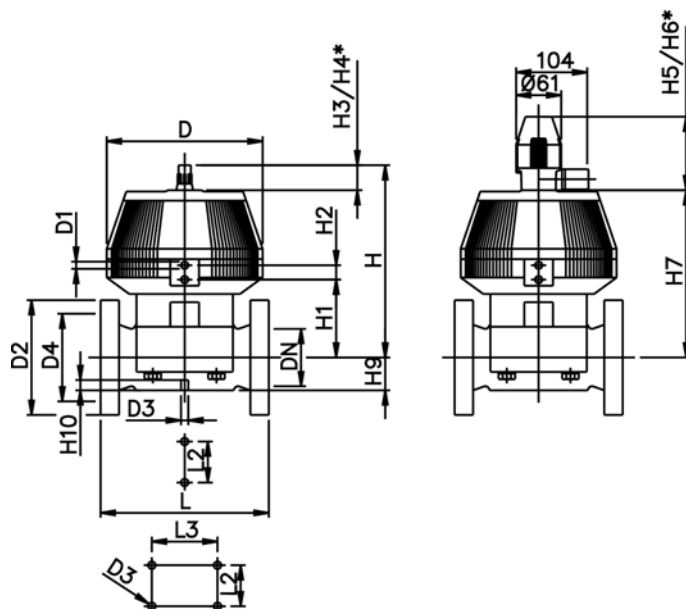
Model:

- Material: PVDF
- Overall length according to EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- With position indicator / Working pressure: on one side
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
* 2 1/2	65	10	992	199 025 347
** 3	80	10	1700	199 025 378
4	100	6	2700	199 025 349
** 6	150	6	6033	199 025 380

Inch	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 2 1/2	280	1/4	185	8	145	290	70		344	148	24	46	100	129
** 3	280	1/4	200	12	160	310	120		348	150	24	46	100	129
4	335	1/4	225	12	180	350	120		395	176	24	46	100	129
** 6	335	1/4	285	12	240	480	100	200	455	237	24	46	100	129

Inch	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 2 1/2	195	298	46	15
** 3	195	302	57	15
4	195	349	69	20
** 6	195	409	108	20



SYGEF Standard metric

Diaphragm valves pneumatic



SYGEF Standard

Diaphragm valve type DIASTAR 025

Function FC (Fail safe to close)

With fixed flanges PVDF metric

Model:

- Material: PVDF
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: on one side

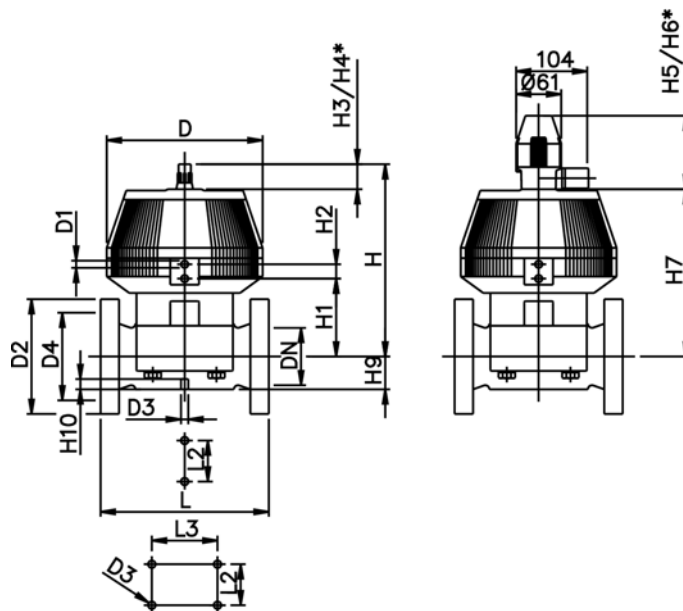
* With backing flanges PP-V

** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
* 75	65	2 ½	10	992	199 025 357
** 90	80	3	10	1700	199 025 358
110	100	4	6	2700	199 025 359

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]
* 75	280	¼	185	8	145	290	70	344	148	24	46	100	129	195
** 90	280	¼	200	12	160	310	120	348	150	24	46	100	129	195
110	335	¼	225	12	180	350	120	395	176	24	46	100	129	195

d [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	298	46	15
** 90	302	57	15
110	349	69	20



SYGEF Standard metric

SYGEF Standard

Diaphragm valve type DIASTAR 025

Function FC (Fail safe to close)

With fixed flanges PVDF Inch ANSI



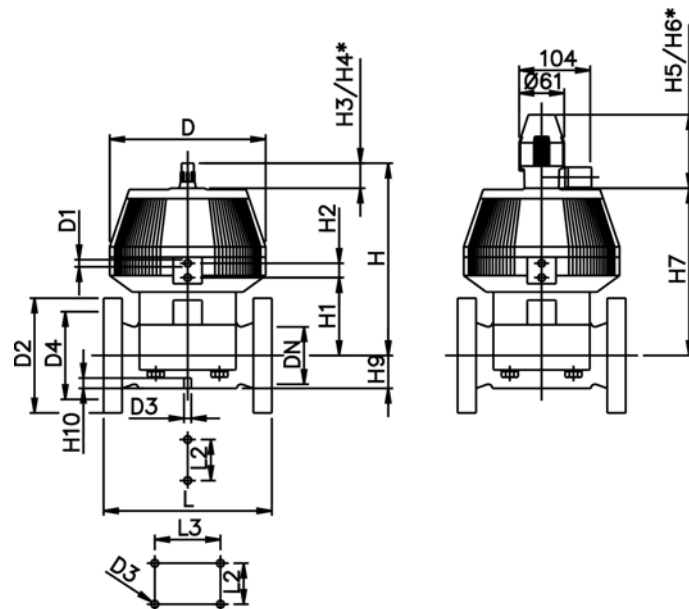
Model:

- Material: PVDF
- Overall length according to EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- With position indicator / Working pressure: on one side
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
* 2 1/2	65	10	992	199 025 327
** 3	80	10	1700	199 025 358
4	100	6	2700	199 025 329

Inch	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]
* 2 1/2	280	1/4	185	8	145	290	70	344	148	24	46	100	129	195
** 3	280	1/4	200	12	160	310	120	348	150	24	46	100	129	195
4	335	1/4	225	12	180	350	120	395	176	24	46	100	129	195

Inch	H7 [mm]	H9 [mm]	H10 [mm]
* 2 1/2	298	46	15
** 3	302	57	15
4	349	69	20



SYGEF Standard metric

SYGEF Standard

Diaphragm valve type DIASTAR 025

Function FO (Fail safe to open)

With fixed flanges PVDF metric

Model:

- Material: PVDF
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: on one side

* With backing flanges PP-V

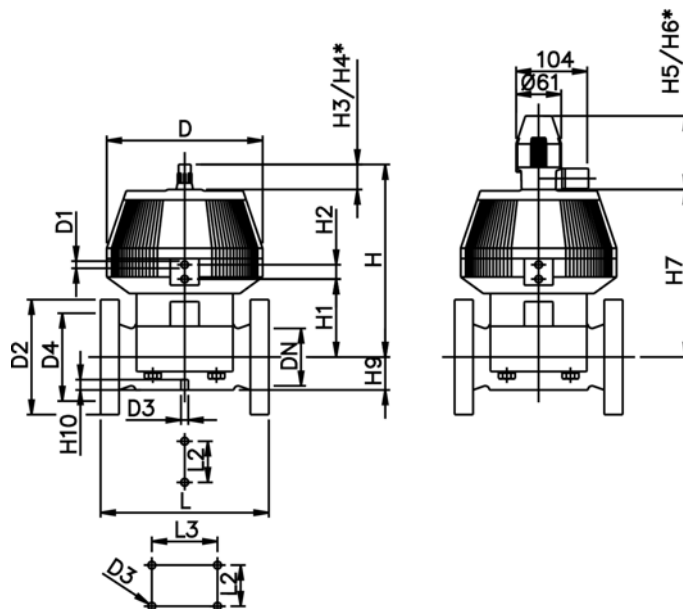
** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
* 75	65	2 1/2	10	992	199 025 367
** 90	80	3	10	1700	199 025 368
110	100	4	6	2700	199 025 369
** 160	150	6	6	6033	199 025 370

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	1/4	185	8	145	290	70		344	148	24	46	100	129
** 90	280	1/4	200	12	160	310	120		348	150	24	46	100	129
110	335	1/4	225	12	180	350	120		395	176	24	46	100	129
** 160	335	1/4	285	12	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	195	298	46	15
** 90	195	302	57	15
110	195	349	69	20
** 160	195	409	108	20



SYGEF Standard metric

SYGEF Standard

Diaphragm valve type DIASTAR 025

Function FO (Fail safe to open)

With fixed flanges PVDF Inch ANSI



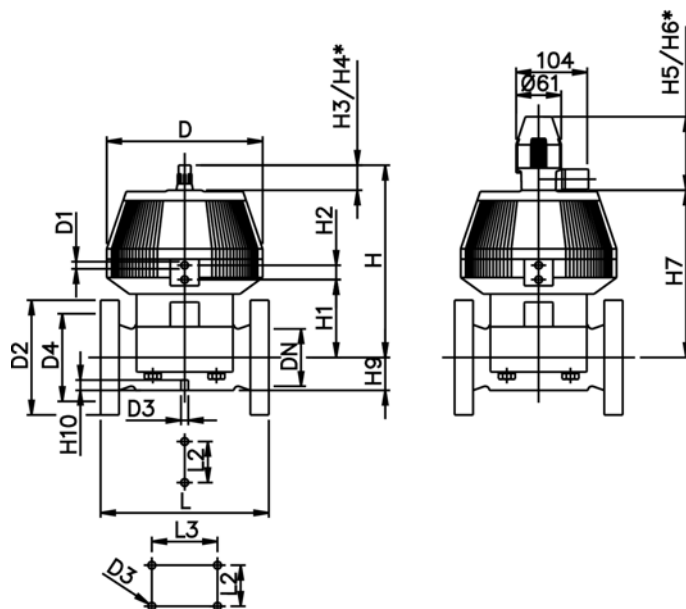
Model:

- Material: PVDF
- Overall length according to EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- With position indicator / Working pressure: on one side
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
* 2 1/2	65	10	992	199 025 337
** 3	80	10	1700	199 025 368
4	100	6	2700	199 025 339
** 6	150	6	6033	199 025 370

Inch	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 2 1/2	280	1/4	185	8	145	290	70		344	148	24	46	100	129
** 3	280	1/4	200	12	160	310	120		348	150	24	46	100	129
4	335	1/4	225	12	180	350	120		395	176	24	46	100	129
** 6	335	1/4	285	12	240	480	100	200	455	237	24	46	100	129

Inch	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 2 1/2	195	298	46	15
** 3	195	302	57	15
4	195	349	69	20
** 6	195	409	108	20



SYGEF Standard metric

Solenoid valves

SYGEF Standard

Solenoid valve type 165

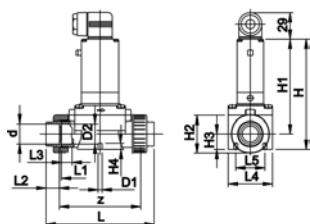
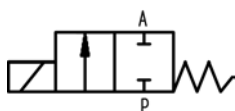
Nominal voltage 230V 50 Hz

Function A straight-through valve 2/2 ways

With fusion sockets metric

Model:

- Material: PVDF
- With manual override
- Electrical connection: cable plug
- Protection class IP 65



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
20	15	0.5 - 6.0	83	199 165 412	199 165 402	
25	20	0.5 - 6.0	100	199 165 413	199 165 403	
32	25	0.5 - 6.0	233	199 165 414	199 165 404	
40	32	0.5 - 6.0	500	199 165 415	199 165 405	
50	40	0.5 - 6.0	500	199 165 416	199 165 406	
63	50	0.5 - 6.0	600	199 165 417	199 165 407	

d [mm]	D2 [mm]	z [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	
20		120	147	109	16		63	40	148	122	53	22	8	
25	25	120	151	109	18	18	62	40	148	122	53	22	8	
32		150	185	139	20		85	45	175	137	76	31	15	
40	40	150	189	139	22	23	85	45	175	137	76	31	15	
50		200	245	189	25		115	45	212	160	105	42	15	
63	63	200	253	189	29	33	115	45	212	160	105	42	15	

SYGEF Standard

Solenoid valve type 165

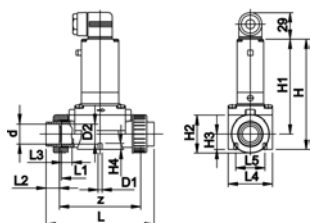
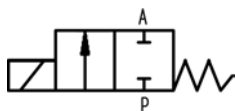
Nominal voltage 115V 50 Hz

Function A straight-through valve 2/2 ways

With fusion sockets metric

Model:

- Material: PVDF
- With manual override
- Electrical connection: cable plug
- Protection class IP 65



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
20	15	0.5 - 6.0	83	199 165 442	199 165 432	
25	20	0.5 - 6.0	100	199 165 443	199 165 433	
32	25	0.5 - 6.0	233	199 165 444	199 165 434	
40	32	0.5 - 6.0	267	199 165 445	199 165 435	
50	40	0.5 - 6.0	500	199 165 446	199 165 436	
63	50	0.5 - 6.0	600	199 165 447	199 165 437	

d [mm]	D2 [mm]	z [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	
20		120	147	109	16		63	40	148	122	53	22	8	
25	25	120	151	109	18	18	62	40	148	122	53	22	8	
32		150	185	139	20		85	45	175	137	76	31	15	
40	40	150	189	139	22	23	85	45	175	137	76	31	15	
50		200	245	189	25		115	45	212	160	105	42	15	
63	63	200	253	189	29	33	115	45	212	160	105	42	15	

SYGEF Standard metric

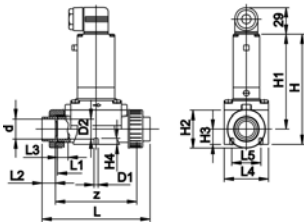
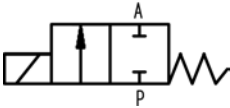
SYGEF Standard

Solenoid valve type 165

Nominal voltage 24V DC

Function A straight-through valve 2/2 ways

With fusion sockets metric

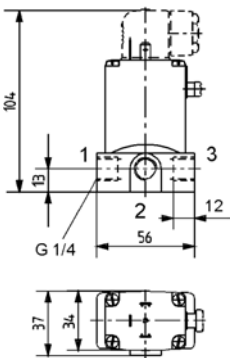
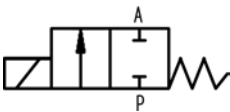


Model:

- Material: PVDF
- With manual override
- Electrical connection: cable plug
- Protection class IP 65

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
20	15	0.5 - 6.0	83	199 165 422	199 165 452	
25	20	0.5 - 6.0	100	199 165 423	199 165 453	
32	25	0.5 - 6.0	233	199 165 424	199 165 454	
40	32	0.5 - 6.0	267	199 165 425	199 165 455	
50	40	0.5 - 6.0	500	199 165 426	199 165 456	
63	50	0.5 - 6.0	600	199 165 427	199 165 457	

d [mm]	D2 [mm]	z [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	
20		120	147	109	16		63	40	148	122	53	22	8	
25	25	120	151	109	18	18	62	40	148	122	53	22	8	
32		150	185	139	20		85	45	175	137	76	31	15	
40	40	150	189	139	22	23	85	45	175	137	76	31	15	
50		200	245	189	25		115	45	212	160	105	42	15	
63	63	200	253	189	29	33	115	45	212	160	105	42	15	



SYGEF Standard

Solenoid valve type 166

Function A straight-through valve 2/2 ways

Nominal voltage 24V DC

With G 1/4 line connection

Model:

- Material: PVDF
- With manual override
- Electrical connection: cable plug
- Protection class IP 65

DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
3	1/4	A	0.0 - 8.0	4	199 166 505	
4	1/4	A	0.0 - 4.0	5	199 166 506	
5	1/4	A	0.0 - 3.0	6	199 166 507	

SYGEF Standard metric

SYGEF Standard

Solenoid valve type 166

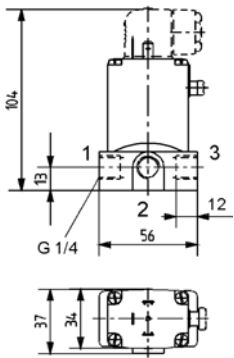
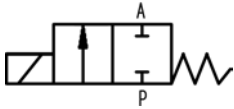
Function A straight-through valve 2/2 ways

Nominal voltage 230V 50Hz $\pm 10\%$

With G 1/4 line connection

Model:

- Material: PVDF
- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
3	1/4	A	0.0 - 10.0	4	199 166 515	
4	1/4	A	0.0 - 5.0	5	199 166 516	
5	1/4	A	0.0 - 4.5	6	199 166 517	

SYGEF Standard

Solenoid valve type 166

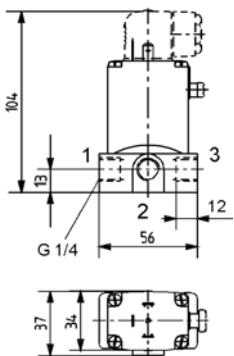
Function E mixing valve 3/2 ways

Nominal voltage 24V DC

With G 1/4 line connection

Model:

- Material: PVDF
- With manual override
- Electrical connection: cable plug
- Protection class IP 65



DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
4	1/4	E	0.0 - 2.0	5	199 166 656	

SYGEF Standard metric

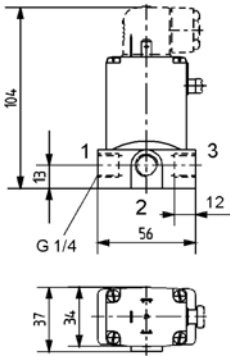
SYGEF Standard

Solenoid valve type 166

Function E mixing valve 3/2 ways

Nominal voltage 230V 50Hz $\pm 10\%$

With G 1/4 line connection



Model:

- Material: PVDF
- With manual override
- Electrical connection: cable plug
- Protection class IP 65

DN [mm]	D1_G [inch]	Function	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	
4	1/4	E	0.0 - 3.0	5	199 166 666	

SYGEF Standard metric

Process control valves

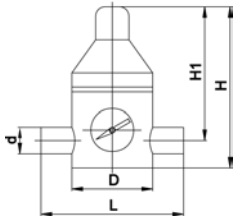
SYGEF Standard

Pressure reducing valve type V82

With fusion spigots metric

Model:

- Material: PVDF



d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 052	70	134	130	100	
20	15	0.5 - 10	199 041 053	70	134	130	100	
25	20	0.5 - 10	199 041 054	100	174	170	130	
32	25	0.5 - 10	199 041 055	100	174	170	130	
40	32	0.5 - 10	199 041 056	130	224	230	175	
50	40	0.5 - 10	199 041 057	130	224	230	175	
63	50	0.5 - 10	199 041 058	155	244	285	210	
75	65	0.5 - 6	199 041 059	190	284	350	250	

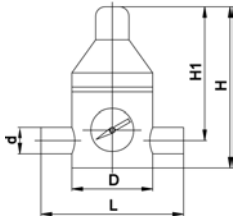
SYGEF Standard

Pressure reducing valve type V182

With fusion spigots metric

Model:

- Material: PVDF



d [mm]	DN [mm]	Pressure range [bar]	FPM Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 661	70	134	130	100	
20	15	0.5 - 10	199 041 662	70	134	130	100	
25	20	0.5 - 10	199 041 663	100	174	170	130	
32	25	0.5 - 10	199 041 664	100	174	170	130	
40	32	0.5 - 10	199 041 665	130	224	230	175	
50	40	0.5 - 10	199 041 666	130	224	230	175	

SYGEF Standard metric

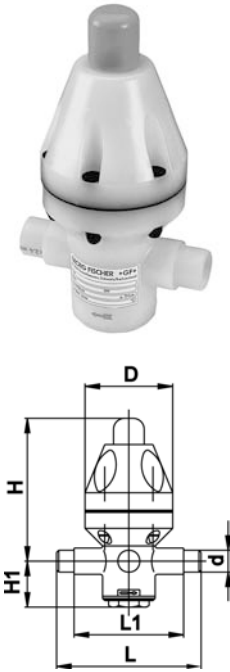
SYGEF Standard

Pressure reducing valve type V782

With fusion spigots BCF cleaned and double packed

Model:

- Material: PVDF



d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 690	83	172	102	195	45	
20	15	0.5 - 10	199 041 691	83	182	102	195	45	
25	20	0.5 - 10	199 041 692	113	192	110	210	62	
32	25	0.5 - 10	199 041 693	113	192	110	210	62	
40	32	0.5 - 10	199 041 694	165	262	162	260	96	
50	40	0.5 - 10	199 041 695	165	262	162	260	96	

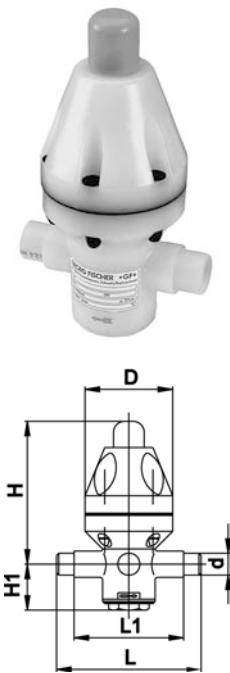
SYGEF Standard

Pressure reducing valve type V782

With fusion spigots metric

Model:

- Material: PVDF



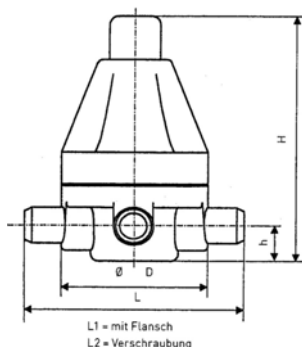
d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 084	83	134	102	138	48	
20	15	0.5 - 10	199 041 085	83	134	102	138	48	
25	20	0.5 - 10	199 041 086	113	154	110	205	65	
32	25	0.5 - 10	199 041 087	113	154	110	205	65	
40	32	0.5 - 10	199 041 088	165	224	162	248	95	
50	40	0.5 - 10	199 041 089	165	224	162	248	95	

SYGEF Standard metric

SYGEF Standard Pressure relief valve type V185 With fusion spigots metric

Model:

- Material: PVDF

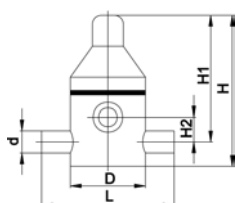


d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 344	83	134	137	20	
20	15	0.5 - 10	199 041 345	83	134	137	20	
25	20	0.5 - 10	199 041 346	83	134	137	20	
32	25	0.5 - 10	199 041 347	112	174	199	27	
40	32	0.5 - 10	199 041 348	112	174	199	27	
50	40	0.5 - 10	199 041 349	165	224	290	43	
63	50	0.5 - 10	199 041 350	165	244	290	43	

SYGEF Standard Pressure relief valve type V85 With fusion spigots metric

Model:

- Material: PVDF

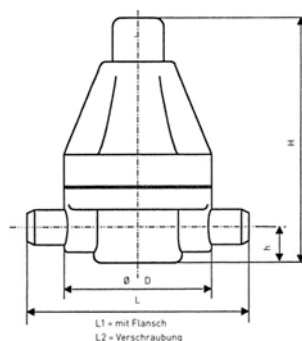


d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	H2 [mm]	
75	65	1.0 - 6	199 041 898	180	284	295	250	70	

SYGEF Standard Pressure retaining valve type V186 With fusion spigots metric

Model:

- Material: PVDF



d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 323	83	134	137	20	
20	15	0.5 - 10	199 041 324	83	134	137	20	
25	20	0.5 - 10	199 041 325	83	134	137	20	
32	25	0.5 - 10	199 041 326	112	174	199	27	
40	32	0.5 - 10	199 041 327	112	174	199	27	
50	40	0.5 - 10	199 041 328	165	224	290	43	
63	50	0.5 - 10	199 041 329	165	244	290	43	

SYGEF Standard metric

SYGEF Standard Pressure retaining valve type V86 With fusion spigots metric

Model:

- Material: PVDF

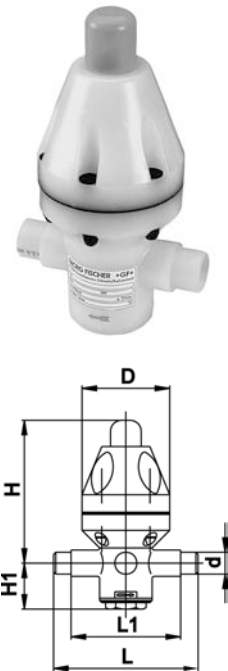


d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
75	65	1.0 - 6	199 041 892	180	284	275	230	

SYGEF Standard Pressure retaining valve type V786 With fusion spigots metric

Model:

- Material: PVDF



d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 114	83	134	102	138	38	
20	15	0.5 - 10	199 041 115	83	134	102	158	38	
25	20	0.5 - 10	199 041 116	113	154	110	205	55	
32	25	0.5 - 10	199 041 117	113	154	110	205	55	
40	32	0.5 - 4	199 041 118	165	224	162	248	85	
50	40	0.5 - 4	199 041 119	165	224	162	248	85	

SYGEF Standard metric

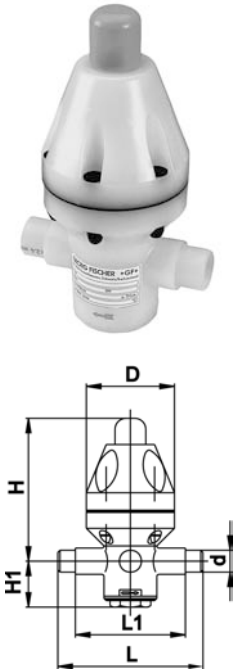
SYGEF Standard

Pressure retaining valve type V786

With fusion spigots BCF cleaned and double packed

Model:

- Material: PVDF



d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
16	10	0.5 - 10	199 041 696	83	172	102	145	38	
20	15	0.5 - 10	199 041 697	83	172	102	145	38	
25	20	0.5 - 10	199 041 698	113	192	110	210	55	
32	25	0.5 - 10	199 041 699	113	192	110	210	55	
40	32	0.5 - 4	199 041 700	165	262	162	260	85	
50	40	0.5 - 4	199 041 701	165	262	162	260	85	

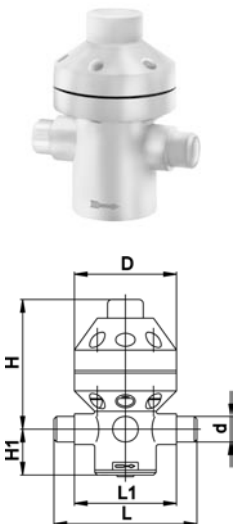
SYGEF Standard

Pressure retaining valve type V886

With fusion spigots metric

Model:

- Material: PVDF



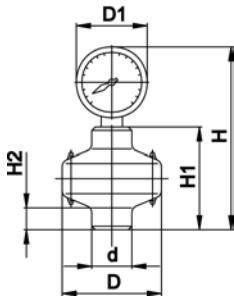
d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
40	32	0.5 - 10	199 041 998	160	224	162	260	85	
50	40	0.5 - 10	199 041 999	160	224	162	260	85	

SYGEF Standard metric

SYGEF Standard Gauge guard type Z700 With manometer 0-10 bar

Model:

- Material: PVDF

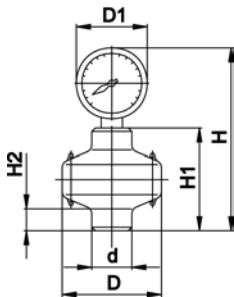


d [mm]	G [inch]	PTFE Code	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	
25	¼	199 041 004	72	63	129	71	15	
32	½	199 041 005	100	100	210	90	22	

SYGEF Standard Gauge guard type Z700 With manometer 0-6 bar

Model:

- Material: PVDF

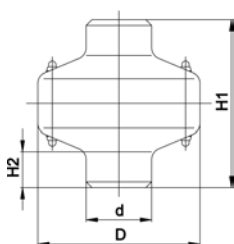


d [mm]	G [inch]	PTFE Code	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	
25	¼	199 041 296	72	63	129	71	15	
32	½	199 041 297	100	100	210	90	22	

SYGEF Standard Gauge guard type Z701 Without manometer

Model:

- Material: PVDF



d [mm]	G [inch]	PTFE Code	D [mm]	H1 [mm]	H2 [mm]	
25	¼	199 041 010	72	71	15	
32	½	199 041 011	100	90	22	

SYGEF Standard metric

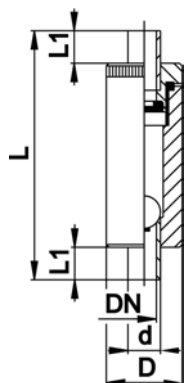
SYGEF Standard

Ventilating and bleed valve type V91

With fusion spigots metric

Model:

- Material: PVDF



d [mm]	DN [mm]	FPM Code	D [mm]	L [mm]	L1 [mm]	
16	10	199 041 256	35	114	14	
20	15	199 041 257	40	124	16	
25	20	199 041 258	45	144	19	
32	25	199 041 259	55	154	22	
40	32	199 041 260	70	174	26	
50	40	199 041 261	80	194	31	
63	50	199 041 262	95	224	38	
75	65	199 041 263	115	284	44	
90	80	199 041 264	150	300	51	

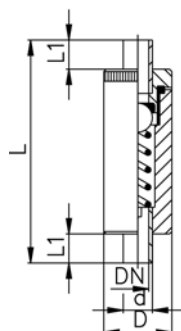
SYGEF Standard

Ventilating valve type V95

With fusion spigots metric

Model:

- Material: PVDF



d [mm]	DN [mm]	FPM Code	D [mm]	L [mm]	L1 [mm]	
16	10	199 041 283	35	114	14	
20	15	199 041 284	40	124	16	
25	20	199 041 285	45	144	19	
32	25	199 041 286	55	154	22	
40	32	199 041 287	70	174	26	
50	40	199 041 288	80	194	31	
63	50	199 041 289	95	224	38	
75	65	199 041 290	115	284	44	
90	80	199 041 291	150	300	51	

SYGEF Standard

Water jet suction pump type P20

Model:

- Material: PVDF
- DN 10-20: BSP parallel female thread
- DN 25-50: Fusion socket metric
- DN 65-80: Fusion spigot metric

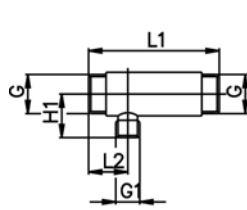


d [mm]	DN [mm]	PN	FPM Code	G [inch]	G1 [inch]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	
16	10	10	199 041 138	R 3/4	R 3/4		110	40		35	
20	15	10	199 041 139	R 1	R 3/4		110	40		35	
25	20	10	199 041 140	R 1 1/4	R 3/4		145	45		45	
32	25	10	199 041 141	R 1 1/2	R 1 1/2	245	195		96	71	
40	32	10	199 041 142	R 2	R 2	297	239		116	87	
50	40	10	199 041 143	R 2 1/4	R 2 1/4	369	301		139	105	

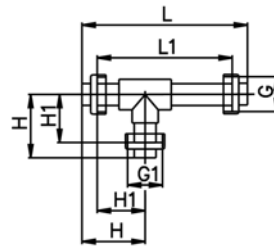
table continued next page

SYGEF Standard metric

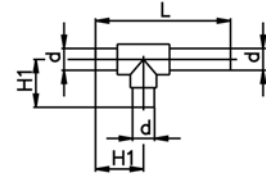
d [mm]	DN [mm]	PN	FPM Code	G [inch]	G1 [inch]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	
63	50	10	199 041 144	R 2 3/4	R 2 3/4	433	351		169	128	
75	65	10	199 041 145	-	-	388				115	
90	80	10	199 041 146	-	-	465				149	



DN 10 - 20



DN 25 - 50



DN 65 - 80

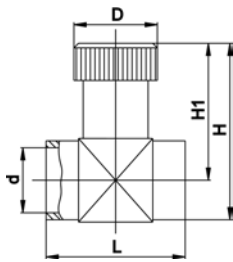


SYGEF Standard Throttle valve type V251 With fusion sockets metric

Model:

- Material: PVDF

d [mm]	DN [mm]	PN	FPM Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
16	10	10	199 041 231	29	47	57	45	
20	15	10	199 041 232	35	55	66	51	
25	20	10	199 041 233	40	66	80	63	
32	25	10	199 041 234	47	80	96	75	
40	32	10	199 041 235	56	100	111	86	
50	40	10	199 041 236	70	120	133	101	
63	50	10	199 041 237	88	146	158	118	



SYGEF Plus metric

	Page
 Diaphragm valves pneumatic New generation	542
 Diaphragm valves pneumatic	550
 Process control valves	556

SYGEF Plus metric

Diaphragm valves pneumatic

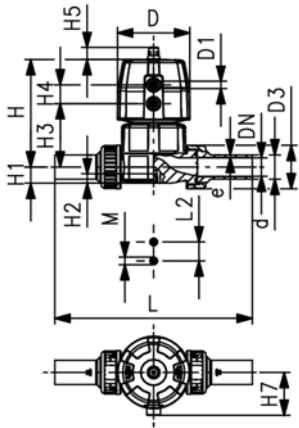
New generation

SYGEF Plus

Diaphragm valve DIASTAR Ten

FC (Fail safe to close)

Unions with butt fusion spigots metric



Model:

- Material: PVDF-HP
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM

d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code												
20	15	10/10*	125	180 624 132												
25	20	10/10*	271	180 624 133												
32	25	10/10*	481	180 624 134												
40	32	10/10*	759	180 624 135												
50	40	10/10*	1263	180 624 136												
63	50	10/6*	1728	180 624 137												

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]		
20	68	1/8	196	25	101	14	12	60	24	16	43	M6	7	1.9		
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	1.9		
32	96	1/8	234	25	143	22	12	84	25	16	57	M6	13	2.4		
40	120	1/8	260	45	173	26	15	99	26	26	69	M8	15	2.4		
50	150	1/4	284	45	214	32	15	119	36	26	88	M8	19	3.0		
63	150	1/4	321	45	226	39	15	132	36	26	88	M8	23	3.0		

SYGEF Plus metric

SYGEF Plus

Diaphragm valve DIASTAR Ten FC (Fail safe to close)

With butt fusion spigots metric

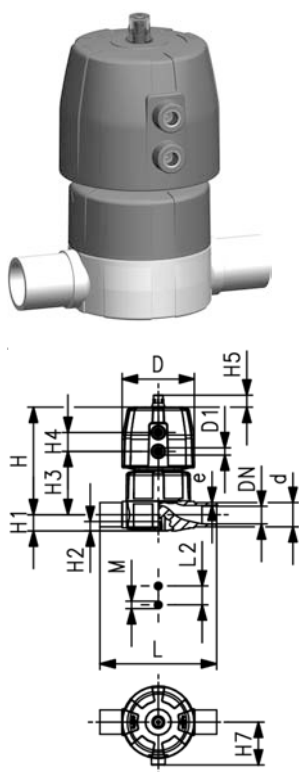
Model:

- Material: PVDF-HP
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM



d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	10/10*	125	180 625 132
25	20	10/10*	271	180 625 133
32	25	10/10*	481	180 625 134
40	32	10/10*	759	180 625 135
50	40	10/10*	1263	180 625 136
63	50	10/6*	1728	180 625 137

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	1.9
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.4
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	2.4
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	3.0
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	3.0

SYGEF Plus

Diaphragm valve DIASTAR Ten FO (Fail safe to open)

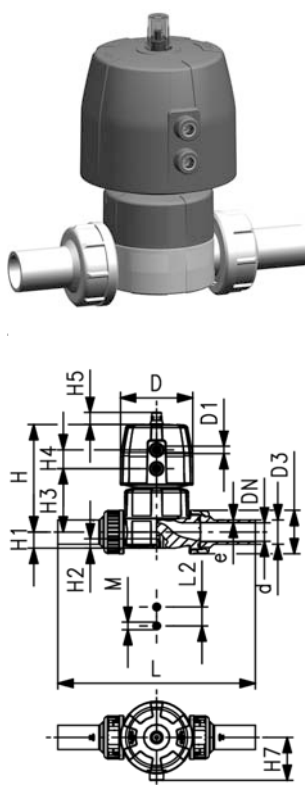
Unions with butt fusion spigots metric

Model:

- Material: PVDF-HP
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

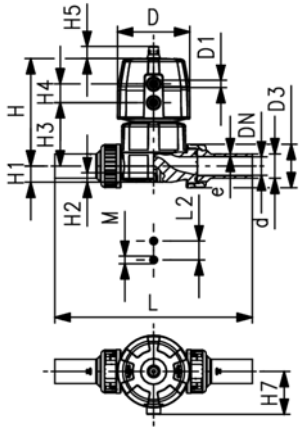
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	10	125	180 644 132
25	20	10	271	180 644 133
32	25	10	481	180 644 134
40	32	10	759	180 644 135
50	40	10	1263	180 644 136
63	50	10	1728	180 644 137

table continued next page

SYGEF Plus metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	196	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	1.9	
32	96	1/8	234	25	143	22	12	84	25	16	57	M6	13	2.4	
40	120	1/8	260	45	173	26	15	99	26	26	69	M8	15	2.4	
50	150	1/4	284	45	214	32	15	119	36	26	69	M8	19	3.0	
63	150	1/4	321	45	226	39	15	132	36	26	69	M8	23	3.0	



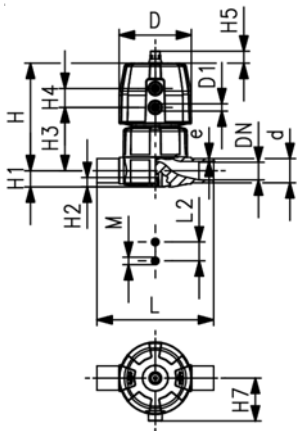
SYGEF Plus Diaphragm valve DIASTAR Ten FO (Fail safe to open) With butt fusion spigots metric

Model:

- Material: PVDF-HP
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	PTFE/EPDM Code	
20	15	10	125	180 645 132	
25	20	10	271	180 645 133	
32	25	10	481	180 645 134	
40	32	10	759	180 645 135	
50	40	10	1263	180 645 136	
63	50	10	1728	180 645 137	

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]	
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9	
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	1.9	
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.4	
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	2.4	
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	3.0	
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	3.0	

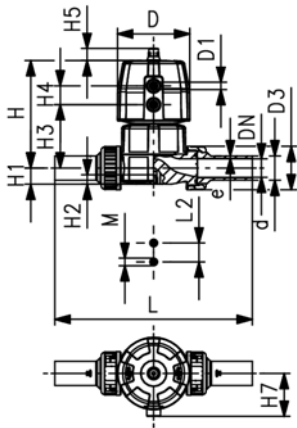
SYGEF Plus metric

SYGEF Plus

Diaphragm valve DIASTAR Ten

DA (Double acting)

Unions with butt fusion spigots metric



Model:

- Material: PVDF-HP
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	10	125	180 654 132
25	20	10	271	180 654 133
32	25	10	481	180 654 134
40	32	10	759	180 654 135
50	40	10	1263	180 654 136
63	50	10	1728	180 654 137

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	196	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	221	25	132	18	12	73	25	16	57	M6	10	1.9
32	96	1/8	234	25	143	22	12	84	25	16	57	M6	13	2.4
40	120	1/8	260	45	173	26	15	99	26	26	69	M8	15	2.4
50	150	1/4	284	45	214	32	15	119	36	26	69	M8	19	3.0
63	150	1/4	321	45	226	39	15	132	36	26	69	M8	23	3.0

SYGEF Plus metric

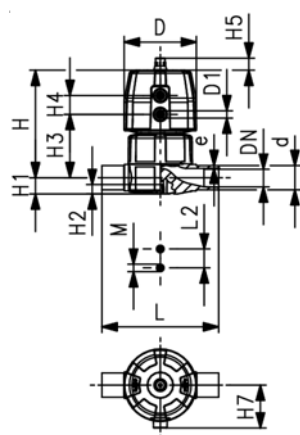
SYGEF Plus Diaphragm valve DIASTAR Ten DA (Double acting) With butt fusion spigots metric

Model:

- Material: PVDF-HP
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available



d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	10	125	180 655 132
25	20	10	271	180 655 133
32	25	10	481	180 655 134
40	32	10	759	180 655 135
50	40	10	1263	180 655 136
63	50	10	1728	180 655 137

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	68	1/8	124	25	101	14	12	60	24	16	43	M6	7	1.9
25	96	1/8	144	25	132	18	12	73	25	16	57	M6	10	1.9
32	96	1/8	154	25	143	22	12	84	25	16	57	M6	13	2.4
40	120	1/8	174	45	173	26	15	99	26	26	69	M8	15	2.4
50	150	1/4	194	45	214	32	15	119	36	26	88	M8	19	3.0
63	150	1/4	224	45	226	39	15	132	36	26	88	M8	23	3.0

SYGEF Plus Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) Unions with butt fusion spigots metric

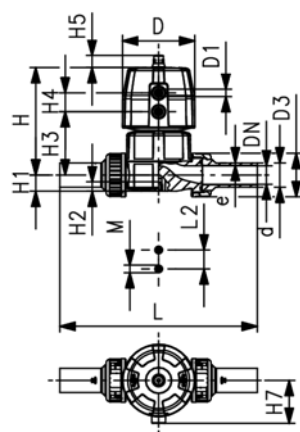
Model:

- Material: PVDF-HP
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

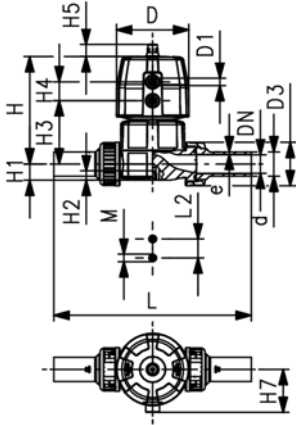
* PN: PTFE/EPDM



d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	15	16/16*	125	180 634 132
25	20	16/16*	271	180 634 133
32	25	16/16*	481	180 634 134
40	32	16/16*	759	180 634 135
50	40	16/16*	1263	180 634 136
63	50	16/10*	1728	180 634 137

table continued next page

SYGEF Plus metric



d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	96	⅜	196	25	127	14	12	68	25	16	57	M6	7	1.9
25	96	⅜	221	25	132	18	12	73	25	16	57	M6	10	1.9
32	120	⅜	234	25	167	22	12	93	26	26	69	M6	13	2.4
40	150	¼	260	45	196	26	15	101	36	26	88	M8	15	2.4
50	180	¼	284	45	239	32	15	124	37	26	103	M8	19	3.0
63	180	¼	321	45	251	39	15	137	37	26	103	M8	23	3.0



SYGEF Plus Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) With butt fusion spigots metric

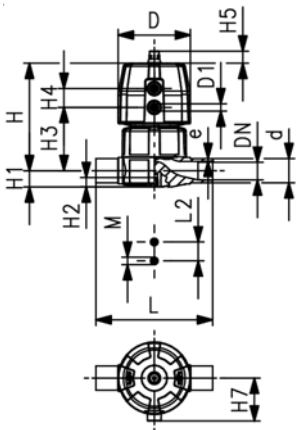
Model:

- Material: PVDF-HP
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

* PN: PTFE/EPDM

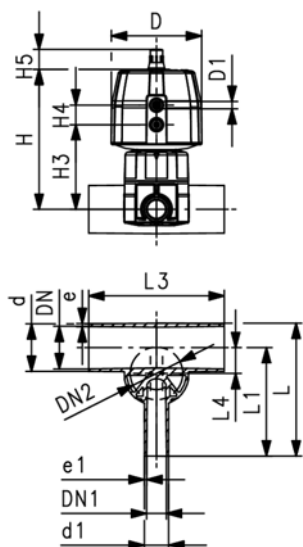


d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	PTFE/EPDM Code
20	15	16/16*	125	180 635 132
25	20	16/16*	271	180 635 133
32	25	16/16*	481	180 635 134
40	32	16/16*	759	180 635 135
50	40	16/16*	1263	180 635 136
63	50	16/10*	1728	180 635 137

d [mm]	D [mm]	D1_G [inch]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	M	Lift = Hx [mm]	e [mm]
20	96	⅜	124	25	127	14	12	68	25	16	57	M6	7	1.9
25	96	⅜	144	25	132	18	12	73	25	16	57	M6	10	1.9
32	120	⅜	154	25	167	22	12	93	26	26	69	M6	13	2.4
40	150	¼	174	45	196	26	15	101	36	26	88	M8	15	2.4
50	180	¼	194	45	239	32	15	124	37	26	103	M8	19	3.0
63	180	¼	224	45	251	39	15	137	37	26	103	M8	23	3.0

SYGEF Plus metric

SYGEF Plus Diaphragm valve DIASTAR Sixteen FC (Fail safe to close) With butt fusion spigots metric



Model:

- Material: PVDF-HP
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Smallest possible dead space

Option:

- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available

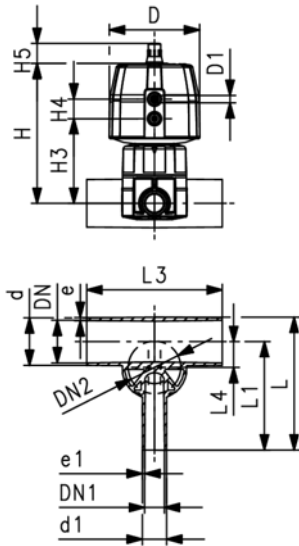
* Available on request

d [mm]	d1 [mm]	DN [mm]	DN1 [mm]	DN2 [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
20	20	15	15	15	16	57	180 639 301
25	20	20	15	20	16	89	180 639 303
25	25	20	20	20	16	118	180 639 304
32	20	25	15	20	16	80	180 639 307
32	25	25	20	20	16	105	180 639 308
32	32	25	25	25	16	231	180 639 309
40	20	32	15	25	16	85	180 639 312
40	25	32	20	25	16	119	180 639 313
40	32	32	25	25	16	153	180 639 314
40	40	32	32	25	16	187	180 639 315
50	20	40	15	20	16	86	180 639 318
50	25	40	20	25	16	160	180 639 319
50	32	40	25	25	16	206	180 639 320
50	40	40	32	50	10	524	180 639 321
50	50	40	40	50	10	667	180 639 322
63	20	50	15	20	16	84	180 639 325
63	25	50	20	25	16	150	180 639 326
63	32	50	25	25	16	184	180 639 327
63	40	50	32	50	10	471	180 639 328
63	50	50	40	50	10	610	180 639 329
63	63	50	50	50	10	747	180 639 330
90	20	80	15	25	16	82	180 639 341
90	25	80	20	25	16	103	180 639 342
90	32	80	25	25	16	129	180 639 343
90	50	80	40	50	10	623	180 639 345
90	63	80	50	50	10	696	180 639 346
110	20	100	15	25	16	78	180 639 351
110	25	100	20	25	16	103	180 639 352
110	32	100	25	25	16	131	180 639 353
110	50	100	40	50	10	604	180 639 355
110	63	100	50	50	10	661	180 639 356

d [mm]	D [mm]	D1 [inch]	L [mm]	L1 [mm]	L3 [mm]	L4 [mm]	H [mm]	H3 [mm]	H4 [mm]	H5 [mm]	Lift = Hx [mm]	e [mm]	e1 [mm]
20	96	1/8	117	96	162	12	130	71	25	16	7	1.9	1.9
25	96	1/8	133	108	162	16	131	72	25	16	10	1.9	1.9
25	96	1/8	133	108	162	16	131	72	25	16	10	1.9	1.9
32	96	1/8	142	120	162	19	135	76	25	16	10	2.4	1.9
32	96	1/8	142	120	162	19	135	76	25	16	10	2.4	1.9
32	120	1/8	145	120	160	19	167	93	26	26	13	2.4	2.4
40	120	1/8	149	128	180	23	175	101	26	26	13	2.4	1.9
40	120	1/8	149	128	180	23	175	101	26	26	13	2.4	1.9
40	120	1/8	149	128	180	23	175	101	26	26	13	2.4	2.4
40	120	1/8	174	153	180	23	175	101	26	26	13	2.4	2.4

table continued next page

SYGEF Plus metric



d [mm]	D [mm]	D1 [inch]	L [mm]	L1 [mm]	L3 [mm]	L4 [mm]	H [mm]	H3 [mm]	H4 [mm]	H5 [mm]	Lift = Hx [mm]	e [mm]	e1 [mm]	
50	96	1/8	160	134	180	27	148	90	25	16	10	3.0	1.9	
50	120	1/8	160	134	180	28	180	106	26	26	13	3.0	1.9	
50	120	1/8	160	134	180	28	180	106	26	26	13	3.0	2.4	
50	180	1/4	209	169	209	33	249	135	37	26	23	3.0	2.4	
50	180	1/4	209	169	209	33	249	135	37	26	23	3.0	3.0	
63	96	1/8	177	144	180	33	155	96	25	16	10	3.0	1.9	
63	120	1/8	177	144	180	35	187	113	26	26	13	3.0	1.9	
63	120	1/8	177	144	180	35	187	113	26	26	13	3.0	2.4	
63	180	1/4	225	192	220	39	255	141	37	26	23	3.0	2.4	
63	180	1/4	225	192	220	39	255	141	37	26	23	3.0	3.0	
63	180	1/4	225	192	220	39	255	141	37	26	23	3.0	3.0	
90	120	1/8	205	159	190	47	200	126	26	26	13	4.3	1.9	
90	120	1/8	205	159	190	47	200	126	26	26	13	4.3	1.9	
90	120	1/8	205	159	190	47	200	126	26	26	13	4.3	2.4	
90	180	1/4	254	207	250	51	269	155	37	26	23	4.3	3.0	
90	180	1/4	254	207	250	51	269	155	37	26	23	4.3	3.0	
110	120	1/8	227	171	190	56	209	135	26	26	13	5.3	1.9	
110	120	1/8	227	171	190	56	209	135	26	26	13	5.3	1.9	
110	120	1/8	227	171	190	56	209	135	26	26	13	5.3	2.4	
110	180	1/4	276	219	250	60	279	165	37	26	23	5.3	3.0	
110	180	1/4	276	219	250	60	279	165	37	26	23	5.3	3.0	

SYGEF Plus metric

Diaphragm valves pneumatic

SYGEF Plus

Diaphragm valve type DIASTAR 025

Function FC (Fail safe to close)

With fixed flanges PVDF metric



Model:

- Material: PVDF-HP
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: **both sides**

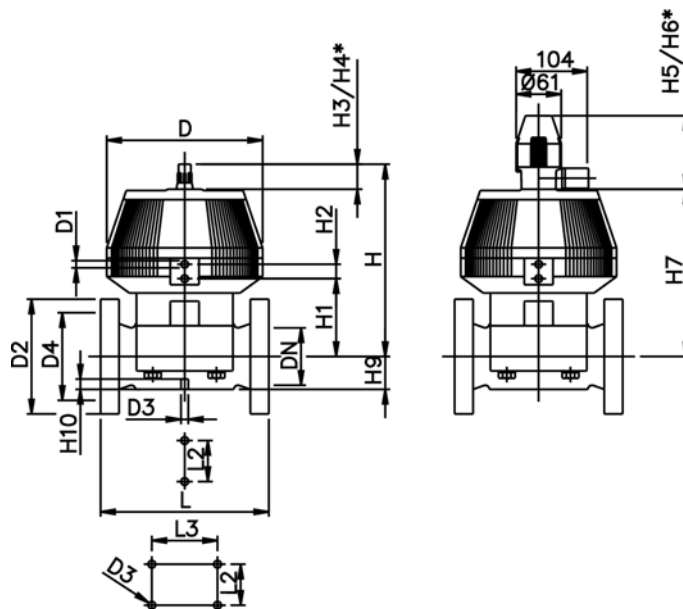
* With backing flanges PP-V

** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
* 75	65	2 ½	10	992	199 025 447
** 90	80	3	10	1700	199 025 448
110	100	4	6	2700	199 025 449

d [mm]	D [mm]	D1_G [inch]	D3[M] [mm]	D2 [mm]	D4 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]
* 75	280	¼	8	185	145	290	70	344	148	24	46	100	129	195
** 90	280	¼	12	200	160	310	120	348	150	24	46	100	129	195
110	335	¼	12	225	180	350	120	395	176	24	46	100	129	195

d [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	298	46	15
** 90	302	57	15
110	349	69	20



SYGEF Plus metric

SYGEF Plus

Diaphragm valve type DIASTAR 025

Function FC (Fail safe to close)

With fixed flanges PVDF Inch ANSI

Model:

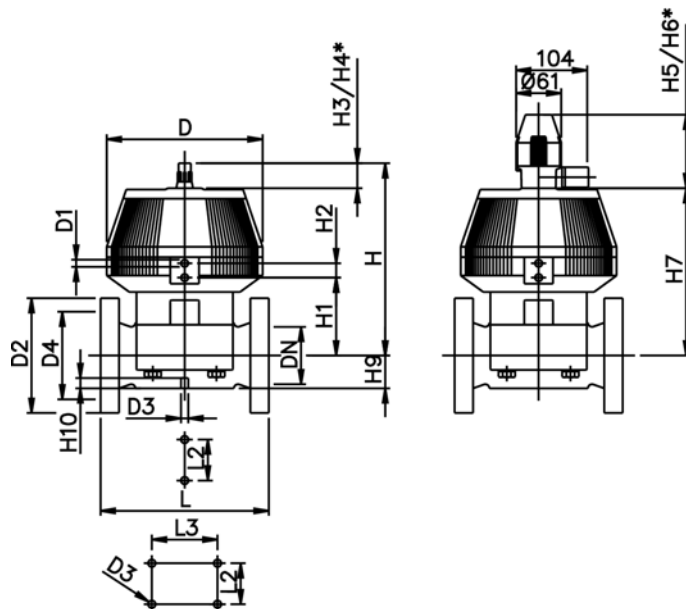
- Material: PVDF-HP
- Overall length according to EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- With position indicator / Working pressure: **both sides**
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5



Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
* 2 1/2	65	10	992	199 025 387
** 3	80	10	1700	199 025 448
4	100	6	2700	199 025 389

Inch	D [mm]	D1_G [inch]	D3[M] [mm]	D2 [mm]	D4 [mm]	L [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]
* 2 1/2	280	1/4	8	185	145	290	70	344	148	24	46	100	129	195
** 3	280	1/4	12	200	160	310	120	348	150	24	46	100	129	195
4	335	1/4	12	225	180	350	120	395	176	24	46	100	129	195

Inch	H7 [mm]	H9 [mm]	H10 [mm]
* 2 1/2	298	46	15
** 3	302	57	15
4	349	69	20



SYGEF Plus metric

SYGEF Plus

Diaphragm valve type DIASTAR 025

Function FO (Fail safe to open)

With fixed flanges PVDF metric

Model:

- Material: PVDF-HP
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- With position indicator / Working pressure: on one side

* With backing flanges PP-V

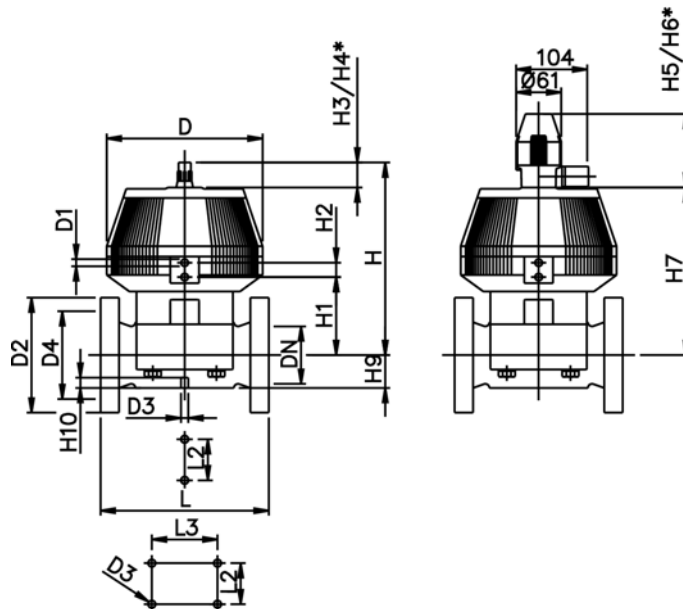
** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
* 75	65	2 1/2	10	992	199 025 457
** 90	80	3	10	1700	199 025 458
110	100	4	6	2700	199 025 459
** 160	150	6	6	6033	199 025 460

d [mm]	D [mm]	D1_G [inch]	D3[M] [mm]	D2 [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	1/4	8	185	145	290	70		344	148	24	46	100	129
** 90	280	1/4	12	200	160	310	120		348	150	24	46	100	129
110	335	1/4	12	225	180	350	120		395	176	24	46	100	129
** 160	335	1/4	12	285	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	195	298	46	15
** 90	195	302	57	15
110	195	349	69	20
** 160	195	409	108	20



SYGEF Plus metric

SYGEF Plus

Diaphragm valve type DIASTAR 025

Function FO (Fail safe to open)

With fixed flanges PVDF Inch ANSI

Model:

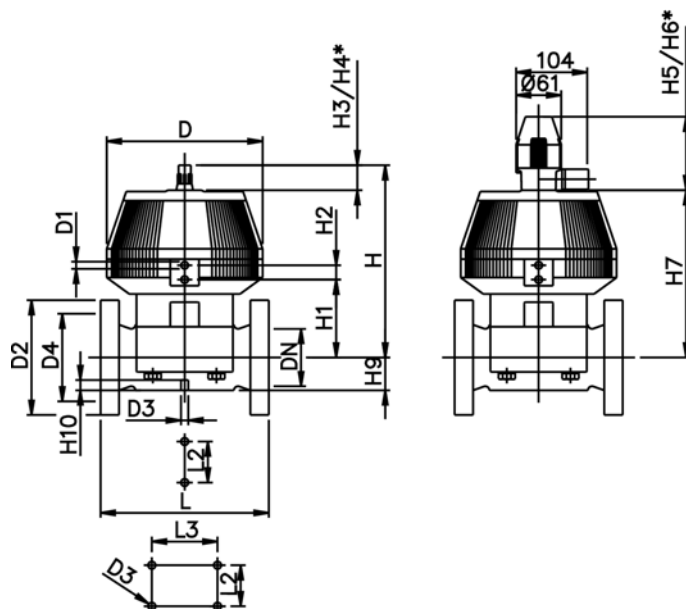
- Material: PVDF-HP
- Overall length according to EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- With position indicator / Working pressure: on one side
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5



Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
* 2 1/2	65	10	992	199 025 397
** 3	80	10	1700	199 025 458
4	100	6	2700	199 025 399
** 6	150	6	6033	199 025 460

Inch	D [mm]	D1_G [inch]	D3[M] [mm]	D2 [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 2 1/2	280	1/4	8	185	145	290	70		344	148	24	46	100	129
** 3	280	1/4	12	200	160	310	120		348	150	24	46	100	129
4	335	1/4	12	225	180	350	120		395	176	24	46	100	129
** 6	335	1/4	12	285	240	480	100	200	455	237	24	46	100	129

Inch	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 2 1/2	195	298	46	15
** 3	195	302	57	15
4	195	349	69	20
** 6	195	409	108	20



SYGEF Plus metric

SYGEF Plus

Diaphragm valve type DIASTAR 025

Function DA (Double acting)

With fixed flanges PVDF metric

Model:

• Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

• With position indicator / Working pressure: on one side

* With backing flanges PP-V

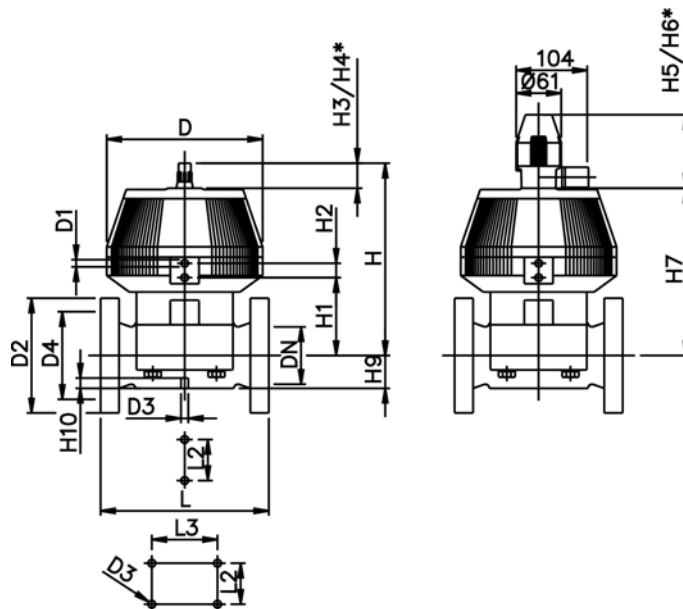
** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
* 75	65	2 ½	10	992	199 025 467
** 90	80	3	10	1700	199 025 468
110	100	4	6	2700	199 025 469
** 160	150	6	6	6033	199 025 470

d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 75	280	¼	185	8	145	290	70		344	148	24	46	100	125
** 90	280	¼	200	12	160	310	120		348	150	24	46	100	129
110	335	¼	225	12	180	350	120		395	176	24	46	100	129
** 160	335	¼	285	12	240	480	100	200	455	237	24	46	100	129

d [mm]	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 75	195	298	46	15
** 90	195	302	57	15
110	195	349	69	20
** 160	195	409	108	20



SYGEF Plus metric

SYGEF Plus

Diaphragm valve type DIASTAR 025

Function DA (Double acting)

With fixed flanges PVDF Inch ANSI

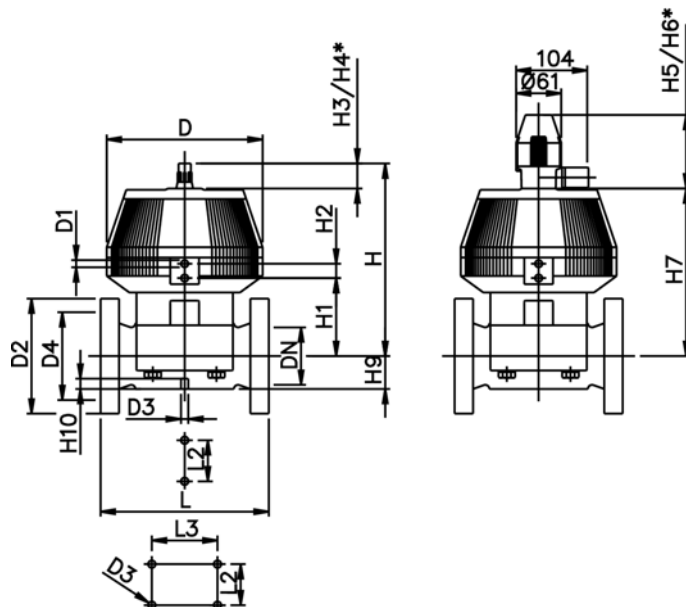
Model:

- Overall length according to EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- With position indicator / Working pressure: on one side
- * With backing flanges PP-V
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

Inch	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE/EPDM Code
* 2 1/2	65	10	992	199 025 407
** 3	80	10	1700	199 025 468
4	100	6	2700	199 025 409
** 6	150	6	6033	199 025 470

Inch	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	L [mm]	L2 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]
* 2 1/2	280	1/4	185	8	145	290	70		344	148	24	46	100	125
** 3	280	1/4	200	12	160	310	120		348	150	24	46	100	129
4	335	1/4	225	12	180	350	120		395	176	24	46	100	129
** 6	335	1/4	285	12	240	480	100	200	455	237	24	46	100	129

Inch	H6 [mm]	H7 [mm]	H9 [mm]	H10 [mm]
* 2 1/2	195	298	46	15
** 3	195	302	57	15
4	195	349	69	20
** 6	195	409	108	20



SYGEF Plus metric

Process control valves

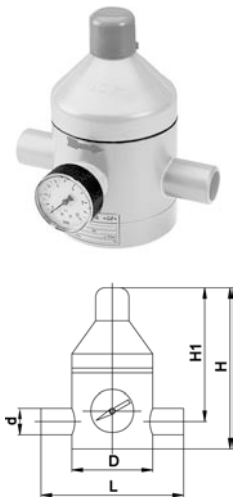
SYGEF Plus

Pressure reducing valve type V82

With fusion spigots BCF

Model:

- Material: PVDF-HP



d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
20	15	0.5 - 10	199 041 184	70	150	130	100	
25	20	0.5 - 10	199 041 185	100	190	180	134	
32	25	0.5 - 10	199 041 186	100	190	180	134	
40	32	0.5 - 10	199 041 187	130	240	230	175	
50	40	0.5 - 10	199 041 188	130	240	230	175	
63	50	0.5 - 10	199 041 189	150	260	285	210	

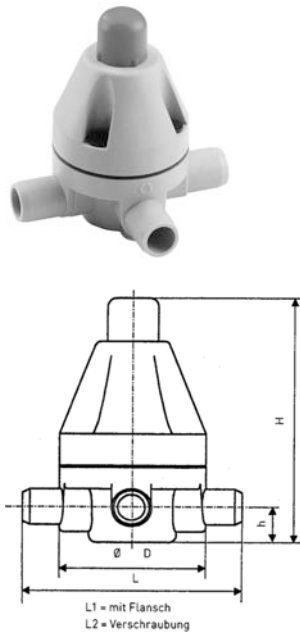
SYGEF Plus

Pressure relief valve type V185

With butt fusion spigots metric IR

Model:

- Material: PVDF-HP



d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
20	15	0.5 - 10	199 041 520	83	158	137	20	
25	20	0.5 - 10	199 041 521	83	158	137	20	
32	25	0.5 - 10	199 041 522	112	198	199	27	
40	32	0.5 - 10	199 041 523	165	202	199	43	
50	40	0.5 - 10	199 041 524	165	256	290	43	
63	50	0.5 - 10	199 041 525	165	256	290	43	

SYGEF Plus metric

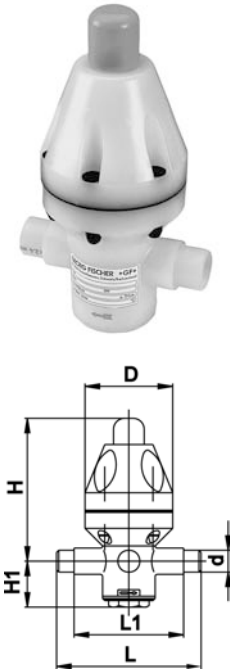
SYGEF Plus

Pressure reducing valve type V782

With fusion spigots BCF

Model:

- Material: PVDF-HP



d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
20	15	0.5 - 10	199 041 192	83	182	102	195	48	
25	20	0.5 - 10	199 041 193	112	190	110	210	65	
32	25	0.5 - 10	199 041 194	112	190	110	210	65	
40	32	0.5 - 10	199 041 195	165	262	162	260	95	
50	40	0.5 - 10	199 041 196	165	262	162	260	95	

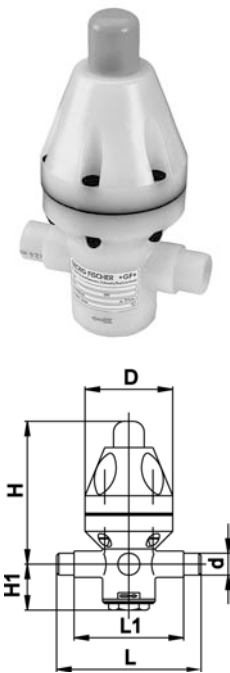
SYGEF Plus

Pressure retaining valve type V786

With fusion spigots BCF

Model:

- Material: PVDF-HP

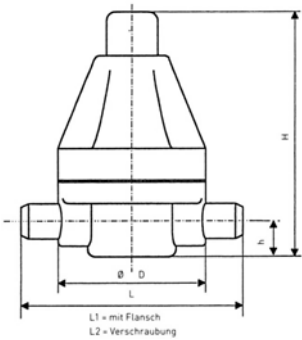


d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	L1 [mm]	H [mm]	H1 [mm]	
20	15	0.5 - 10	199 041 198	83	172	102	145	38	
25	20	0.5 - 10	199 041 199	112	190	110	210	55	
32	25	0.5 - 10	199 041 200	112	190	110	210	55	
40	32	0.5 - 4	199 041 201	165	262	162	260	85	
50	40	0.5 - 4	199 041 202	165	262	162	260	85	

SYGEF Plus metric

SYGEF Plus Pressure retaining valve type V186 With butt fusion spigots BCF IR

Model:
• Material: PVDF-HP



d [mm]	DN [mm]	Pressure range [bar]	PTFE Code	D [mm]	L [mm]	H [mm]	H1 [mm]	
20	15	0.5 - 10	199 041 395	83	158	137	20	
25	20	0.5 - 10	199 041 396	83	158	137	20	
32	25	0.5 - 10	199 041 397	112	198	199	27	
40	32	0.5 - 10	199 041 398	112	202	199	43	
50	40	0.5 - 10	199 041 399	165	256	290	43	
63	50	0.5 - 10	199 041 400	165	256	290	43	

Metal - butterfly valves

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	Metal - butterfly valves pneumatic lug metric	568
	Metal - butterfly valves electric wafer Metric/Inch/ASTM	570
	Metal - butterfly valves electric lug metric	575
	Spare parts	576

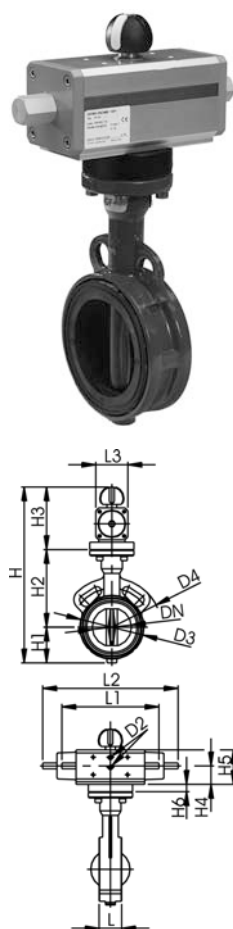
Metal - butterfly valves

Metal - butterfly valves pneumatic wafer Metric/Inch/ASTM

Metal - butterfly valve type 037P FC (Fail safe to close) Without manual override

Model:

- Housing: Aluminium ASTM S 12A, Rilsan® coated
- Seatliner available in EPDM and FPM



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: ductile iron/ Rilsan® coated EPDM Code	Disc: ductile iron/ Rilsan® coated FPM Code
63	50	2	10	3140	220	199 037 052	199 037 065
75	65	2 ½	10	4570	320	199 037 053	199 037 066
90	80	3	10	7140	500	199 037 054	199 037 067
110	100	4	10	11710	820	199 037 055	199 037 068
140	125	5	10	18570	1300	199 037 056	199 037 069
160	150	6	10	27130	1900	199 037 057	199 037 070
225	200	8	10	47130	3330	199 037 058	199 037 071
280	250	10	10	77110	5400	199 037 059	199 037 072
315	300	12	10	114240	8000	199 037 060	199 037 073

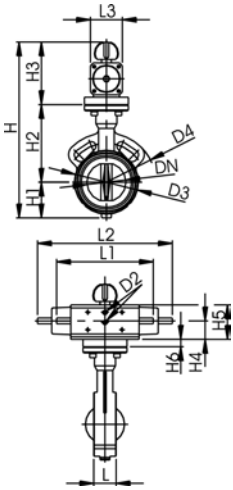
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: stainless steel EPDM Code	Disc: stainless steel FPM Code
63	50	2	10	3140	220	199 037 252	199 037 265
75	65	2 ½	10	4570	320	199 037 253	199 037 266
90	80	3	10	7140	500	199 037 254	199 037 267
110	100	4	10	11710	820	199 037 255	199 037 268
140	125	5	10	18570	1300	199 037 256	199 037 269
160	150	6	10	27130	1900	199 037 257	199 037 270
225	200	8	10	47130	3330	199 037 258	199 037 271
280	250	10	10	77110	5400	199 037 259	199 037 272
315	300	12	10	114240	8000	199 037 260	199 037 273

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: Alu-bronze EPDM Code	Disc: Alu-bronze FPM Code
63	50	2	10	3140	220	199 037 452	199 037 465
75	65	2 ½	10	4570	320	199 037 453	199 037 466
90	80	3	10	7140	500	199 037 454	199 037 467
110	100	4	10	11710	820	199 037 455	199 037 468
140	125	5	10	18570	1300	199 037 456	199 037 469
160	150	6	10	27130	1900	199 037 457	199 037 470
225	200	8	10	47130	3330	199 037 458	199 037 471
280	250	10	10	77110	5400	199 037 459	199 037 472
315	300	12	10	114240	8000	199 037 460	199 037 473

d [mm]	Actuator unit type	d3 [mm]	d4 [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]
63	PA-30	95	165	65	240	338	55	140	40	103
75	PA-30	114	185	65	240	360	65	152	40	103
90	PA-35	131	190	72	294	391	73	159	46	113
110	PA-40	152	229	80	320	441	87	178	46	130
140	PA-45	182	254	90	357	489	102	191	56	140
160	PA-50	209	285	100	395	527	118	203	56	150

table continued next page

Metal - butterfly valves



d [mm]	Actuator unit type	d3 [mm]	d4 [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	
225	PA-60	262	343	124	487	632	149	241	68	174	
280	PA-60	331	333	124	487	717	200	275	68	174	
315	PA-70	380	353	145	551	823	227	315	83	198	



Metal - butterfly valve type 037P FC (Fail safe to close) Without manual override DN350-1200 metric

Model:

- Housing: Ductile Iron ASTM A 395, Epoxy coated
- Seatliner available in EPDM, FPM on request
- Disc available in Aluminium Bronze on request
- Connecting dimension: EN 1092 PN10, ANSI B 16.5 Class 150
- Up to DN 500: Overall length according to EN558, line 20, ISO 5752

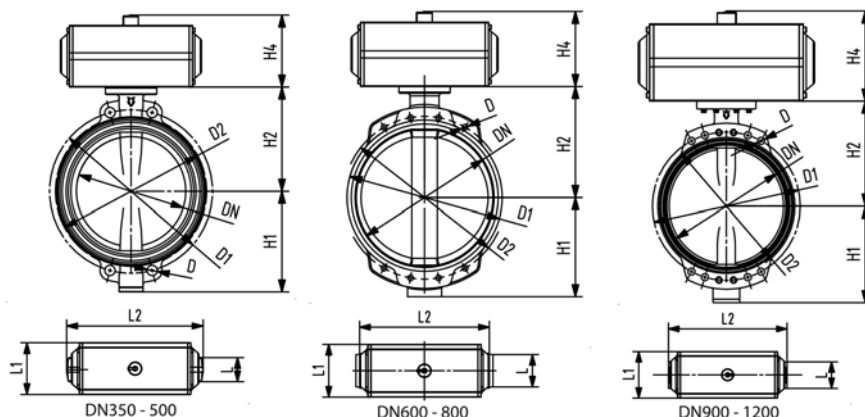
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	Disc: ductile iron: EPOXY coated EPDM Code	Disc: stainless steel EPDM Code	
355	350	10	143360	198 037 100	198 037 110	
400	400	10	186700	198 037 101	198 037 111	
450	450	10	258390	198 037 102	198 037 112	
500	500	10	316730	198 037 103	198 037 113	
630	600	10	431750	198 037 104	198 037 114	
700	700	10	618333	198 037 105	198 037 115	
800	800	10	675000	198 037 106	198 037 116	
900	900	10	1005200	198 037 107	198 037 117	
1000	1000	10	1306930	198 037 108	198 037 118	
1200	1200	10	1907050	198 037 109	198 037 119	

d [mm]	Actuator unit type	M [mm]	D [mm]	N [mm]	D1 [mm]	D2 [mm]	H1 [mm]	H2 [mm]	H4 [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	
355	CH-240	20	21	16	460	442	291	307	382	200	590	332	
400	CH-270	24	25	16	515	193	325	342	380	350	684	382	
450	CH-B270	24	25	20	565	544	357	387	350	281	722	432	
500	CH-B350	24	25	20	620	601	381	425	432	349	860	478	
630	CH-B400	27	28	20	725	695	488	532	510	450	918	585	
700	CH-B500	27	28	24	840	798	506	573	700	640	1550	683	
800	CH-B500	30	31	24	950	908	578	650	700	640	1550	755	

table continued next page

Metal - butterfly valves

d [mm]	Actuator unit type	M [mm]	D [mm]	N [mm]	D1 [mm]	D2 [mm]	H1 [mm]	H2 [mm]	H4 [mm]	L1 [mm]	L2 [mm]	Q1 [mm]
900	CH-B500	30	31	28	1050	1004	643	707	700	640	1550	852
1000	CH-B500	33	34	28	1160	1114	729	755	700	640	1550	958
1200	CH-B600	36	37	32	1380	1330	855	900	875	850	2070	1098



Metal - butterfly valve type 037P FC (Fail safe to close) Without manual override DN350-1200 ANSI

Model:

- Housing: Ductile Iron ASTM A 395, Epoxy coated
- Seatliner available in EPDM, FPM on request
- Disc available in Aluminium Bronze on request
- Connecting dimension: EN 1092 PN10, ANSI B 16.5 Class 150
- Up to DN 500: Overall length according to EN558, line 20, ISO 5752

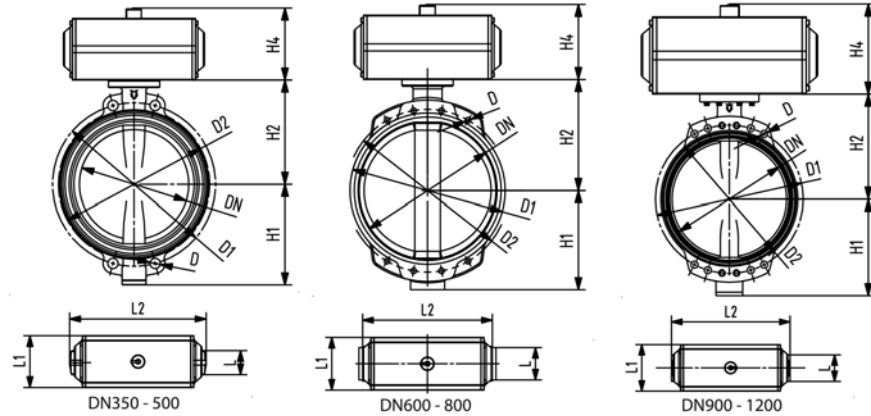
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	Disc: ductile iron: EPOXY coated EPDM Code	Disc: stainless steel EPDM Code
355	350	10	143360	198 037 120	198 037 130
400	400	10	186700	198 037 121	198 037 131
450	450	10	258390	198 037 122	198 037 132
500	500	10	316730	198 037 123	198 037 133
630	600	10	431750	198 037 124	198 037 134
700	700	10	618333	198 037 125	198 037 135
800	800	10	675000	198 037 126	198 037 136
900	900	10	1005200	198 037 127	198 037 137
1000	1000	10	1306930	198 037 128	198 037 138
1200	1200	10	1907050	198 037 129	198 037 139

d [mm]	M [inch]	Actuator unit type	D [mm]	N [mm]	D1 [mm]	D2 [mm]	H1 [mm]	H2 [mm]	H4 [mm]	L1 [mm]	L2 [mm]	Q1 [mm]
355	1	CH-240	26	12	476	442	291	307	382	200	590	332
400	1	CH-270	26	16	540	493	325	342	380	350	684	382
450	1 1/8	CH-B270	29	20	578	544	357	387	350	281	722	432
500	1 1/8	CH-B350	29	20	635	601	381	425	432	349	860	478
630	1 1/4	CH-B400	32	20	749	695	488	532	510	450	918	585
700	1 1/4	CH-B500	32	28	864	798	506	573	700	640	1550	683
800	1 1/2	CH-B500	39	28	978	908	578	650	700	640	1550	755

table continued next page

Metal - butterfly valves

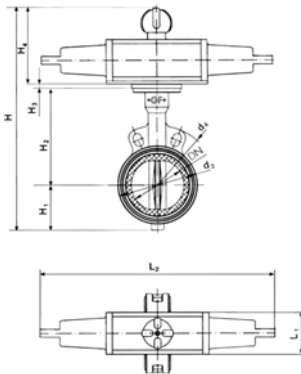
d [mm]	M [inch]	Actuator unit type	D [mm]	N [mm]	D1 [mm]	D2 [mm]	H1 [mm]	H2 [mm]	H4 [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	
900	1 ½	CH-B500	39	28	1086	1004	643	707	700	640	1550	852	
1000	1 ½	CH-B500	39	32	1200	1114	729	755	700	640	1550	958	
1200	1 ½	CH-B600	39	44	1422	1330	855	900	875	850	2070	1098	



Metal - butterfly valve type 037P FO (Fail safe to open) Without manual override

Model:

- Housing: Aluminium ASTM S 12A, Rilsan® coated
- Seatliner available in EPDM and FPM



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: ductile iron/ Rilsan® coated EPDM Code	Disc: ductile iron/ Rilsan® coated FPM Code	
63	50	2	10	3140	220	199 037 078	199 037 091	
75	65	2 ½	10	4570	320	199 037 079	199 037 092	
90	80	3	10	7140	500	199 037 080	199 037 093	
110	100	4	10	11710	820	199 037 081	199 037 094	
140	125	5	10	18570	1300	199 037 082	199 037 095	
160	150	6	10	27130	1900	199 037 083	199 037 096	
225	200	8	10	47130	3330	199 037 084	199 037 097	
280	250	10	10	77110	5400	199 037 085	199 037 098	
315	300	12	10	114240	8000	199 037 086	199 037 099	

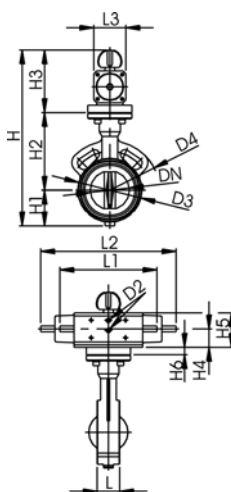
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: stainless steel EPDM Code	Disc: stainless steel FPM Code	
63	50	2	10	3140	220	199 037 278	199 037 291	
75	65	2 ½	10	4570	320	199 037 279	199 037 292	
90	80	3	10	7140	500	199 037 280	199 037 293	
110	100	4	10	11710	820	199 037 281	199 037 294	
140	125	5	10	18570	1300	199 037 282	199 037 295	
160	150	6	10	27130	1900	199 037 283	199 037 296	
225	200	8	10	47130	3330	199 037 284	199 037 297	
280	250	10	10	77110	5400	199 037 285	199 037 298	
315	300	12	10	114240	8000	199 037 286	199 037 299	

table continued next page

Technical drawing of a ball valve in closed position. The drawing includes a front view (top) and a side view (bottom). The front view shows the valve body with a handle on top. Dimensions labeled include H_K (total height), H_1 (height to the top of the handle), H_2 (height to the top of the valve body), and H_3 (height to the center of the ball). The side view shows the valve body with dimensions L_1 (total length) and L_2 (length to the center of the ball). The ball is labeled with ϕ (diameter) and ϕ_{max} (maximum diameter). The handle is labeled with ϕ_{max} (maximum diameter).

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	Cv val-ue (Δp=1 psi) [gal (US) / min]	Disc: Alu-bronze EPDM Code	Disc: Alu-bronze FPM Code	
63	50	2	10	3140	220	199 037 478	199 037 491	
75	65	2 ½	10	4570	320	199 037 479	199 037 492	
90	80	3	10	7140	500	199 037 480	199 037 493	
110	100	4	10	11710	820	199 037 481	199 037 494	
140	125	5	10	18570	1300	199 037 482	199 037 495	
160	150	6	10	27130	1900	199 037 483	199 037 496	
225	200	8	10	47130	3330	199 037 484	199 037 497	
280	250	10	10	77110	5400	199 037 485	199 037 498	
315	300	12	10	114240	8000	199 037 486	199 037 499	

d [mm]	Actuator unit type	d3 [mm]	d4 [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	
63	PA-30	95	165	65	240	338	55	140	40	103	
75	PA-30	114	185	65	240	360	65	152	40	103	
90	PA-35	131	190	72	294	391	73	159	46	113	
110	PA-40	152	229	80	320	441	87	178	46	130	
140	PA-45	182	254	90	357	489	102	191	56	140	
160	PA-50	209	285	100	395	527	118	203	56	150	
225	PA-60	262	343	124	487	632	149	241	68	174	
280	PA-60	331	333	124	487	717	200	275	68	174	
315	PA-60	380	353	145	551	823	227	315	83	198	



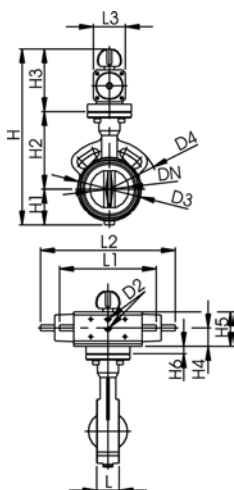
Model:

- Housing: Aluminium ASTM S 12A, Rilsan® coated
- Seatliner available in EPDM and FPM

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	Cv val- ue (Δp=1 psi) [gal (US) / min]	Disc: ductile iron/ Rilsan® coated EPDM Code	Disc: ductile iron/ Rilsan® coated FPM Code	
63	50	2	10	3140	220	199 037 104	199 037 117	
75	65	2 ½	10	4570	320	199 037 105	199 037 118	
90	80	3	10	7140	500	199 037 106	199 037 119	
110	100	4	10	11710	820	199 037 107	199 037 120	
140	125	5	10	18570	1300	199 037 108	199 037 121	
160	150	6	10	27130	1900	199 037 109	199 037 122	
225	200	8	10	47130	3330	199 037 110	199 037 123	
280	250	10	10	77110	5400	199 037 111	199 037 124	
315	300	12	10	114240	8000	199 037 112	199 037 125	

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	Cv val-ue (Δp=1 psi) [gal (US) / min]	Disc: stainless steel EPDM Code	Disc: stainless steel FPM Code	
63	50	2	10	3140	220	199 037 304	199 037 317	
75	65	2 ½	10	4570	320	199 037 305	199 037 318	
90	80	3	10	7140	500	199 037 306	199 037 319	
110	100	4	10	11710	820	199 037 307	199 037 320	
140	125	5	10	18570	1300	199 037 308	199 037 321	
160	150	6	10	27130	1900	199 037 309	199 037 322	
225	200	8	10	47130	3330	199 037 310	199 037 323	
280	250	10	10	77110	5400	199 037 311	199 037 324	
315	300	12	10	114240	8000	199 037 312	199 037 325	

Metal - butterfly valves



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv value ($\Delta p=1$ psi) [gal (US) / min]	Disc: Alu-bronze EPDM Code	Disc: Alu-bronze FPM Code
63	50	2	10	3140	220	199 037 504	199 037 517
75	65	2 ½	10	4570	320	199 037 505	199 037 518
90	80	3	10	7140	500	199 037 506	199 037 519
110	100	4	10	11710	820	199 037 507	199 037 520
140	125	5	10	18570	1300	199 037 508	199 037 521
160	150	6	10	27130	1900	199 037 509	199 037 522
225	200	8	10	47130	3330	199 037 510	199 037 523
280	250	10	10	77110	5400	199 037 511	199 037 524
315	300	12	10	114240	8000	199 037 512	199 037 525

d [mm]	Actuator unit type	D3 [mm]	D4 [mm]	L [mm]	L1 [mm]	L3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]
63	PA-35	95	165	43	190	60	308	55	140	113	35	60	15
75	PA-35	114	185	46	190	60	330	65	152	113	35	60	15
90	PA-35	131	190	46	190	60	345	73	159	113	38	71	15
110	PA-45	152	229	52	235	72	392	87	178	127	38	71	15
140	PA-45	182	254	56	235	72	420	102	191	127	46	86	15
160	PA-55	209	285	56	279	90	476	118	203	155	46	86	15
225	PA-60	262	343	60	341	100	559	149	245	165	56	106	15
280	PA-65	331	333	68	350	112	662	200	275	187	56	106	25
315	PA-70	380	353	78	381	124	741	227	315	199	68	130	25

Metal - butterfly valve type 037P DA (Double acting) Without manual override DN350-1200 metric

Model:

- Housing: Ductile Iron ASTM A 395, Epoxy coated
- Seatliner available in EPDM, FPM on request
- Disc available in Aluminium Bronze on request
- Connecting dimension: EN 1092 PN10, ANSI B 16.5 Class 150
- Up to DN 500: Overall length according to EN558, line 20, ISO 5752

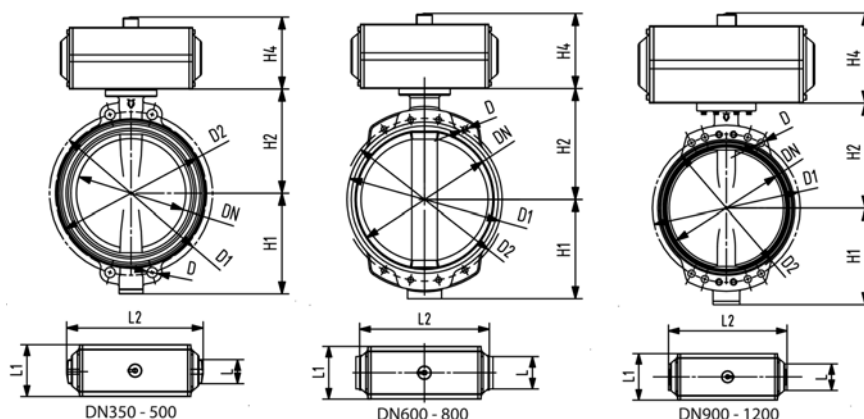
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	Disc: ductile iron: EPOXY coated EPDM Code	Disc: stainless steel EPDM Code
355	350	10	143360	198 037 200	198 037 210
400	400	10	186700	198 037 201	198 037 211
450	450	10	258390	198 037 202	198 037 212
500	500	10	316730	198 037 203	198 037 213
630	600	10	431750	198 037 204	198 037 214
700	700	10	618333	198 037 205	198 037 215
800	800	10	675000	198 037 206	198 037 216
900	900	10	1005200	198 037 207	198 037 217
1000	1000	10	1306930	198 037 208	198 037 218
1200	1200	10	1907050	198 037 209	198 037 219

d [mm]	Actuator unit type	M [mm]	D [mm]	N [mm]	D1 [mm]	D2 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L1 [mm]	L2 [mm]	Q1 [mm]
355	CH-B200	20	21	16	460	442	291	307	290	220	575	332
400	CH-B240	24	25	16	515	193	325	342	290	220	575	382
450	CH-B240	24	25	20	565	544	357	387	380	350	684	432
500	CH-B270	24	25	20	620	601	381	425	380	350	684	478
630	CH-B350	27	28	20	725	695	488	532	432	349	860	585
700	CH-B350	27	28	24	840	798	506	573	432	349	860	683
800	CH-B400	30	31	24	950	908	578	650	510	450	918	755

table continued next page

Metal - butterfly valves

d [mm]	Actuator unit type	M [mm]	D [mm]	N [mm]	D1 [mm]	D2 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L1 [mm]	L2 [mm]	Q1 [mm]
900	CH-B500	30	31	28	1050	1004	643	707	700	640	1550	852
1000	CH-B500	33	34	28	1160	1114	729	755	700	640	1550	958
1200	CH-B500	36	37	32	1380	1330	855	900	700	640	1550	1098



Metal - butterfly valve type 037P DA (Double acting) Without manual override DN350-1200 ANSI

Model:

- Housing: Ductile Iron ASTM A 395, Epoxy coated
- Seatliner available in EPDM, FPM on request
- Disc available in Aluminium Bronze on request
- Connecting dimension: EN 1092 PN10, ANSI B 16.5 Class 150
- Up to DN 500: Overall length according to EN558, line 20, ISO 5752

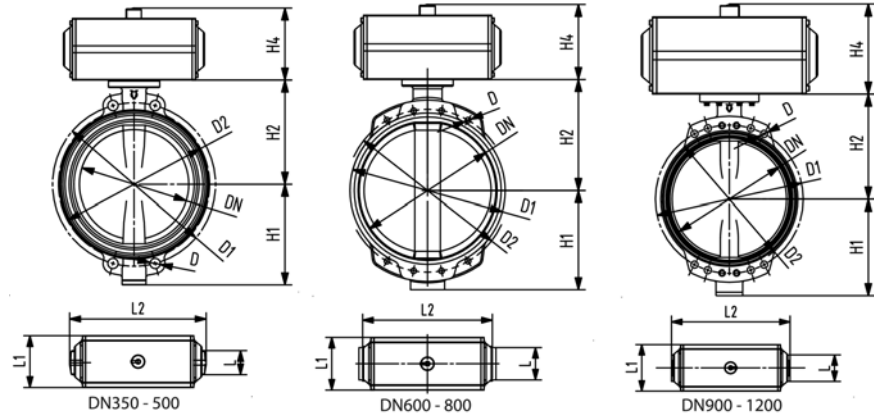
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	Disc: ductile iron: EPOXY coated EPDM Code	Disc: stainless steel EPDM Code
355	350	10	143360	198 037 220	198 037 230
400	400	10	186700	198 037 221	198 037 231
450	450	10	258390	198 037 222	198 037 232
500	500	10	316730	198 037 223	198 037 233
630	600	10	431750	198 037 224	198 037 234
700	700	10	618333	198 037 225	198 037 235
800	800	10	675000	198 037 226	198 037 236
900	900	10	1005200	198 037 227	198 037 237
1000	1000	10	1306930	198 037 228	198 037 238
1200	1200	10	1907050	198 037 229	198 037 239

d [mm]	Actuator unit type	M [inch]	D [mm]	N [mm]	D1 [mm]	D2 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L1 [mm]	L2 [mm]	Q1 [mm]
355	CH-B200	1	26	12	476	442	291	307	290	220	575	332
400	CH-B240	1	26	16	540	493	325	342	290	220	575	382
450	CH-B240	1 1/8	29	20	578	544	357	387	380	350	684	432
500	CH-B270	1 1/8	29	20	635	601	381	425	380	350	684	478
630	CH-B350	1 1/4	32	20	749	695	488	532	432	349	860	585
700	CH-B350	1 1/4	32	28	864	798	506	573	432	349	860	683
800	CH-B400	1 1/2	39	28	978	908	578	650	510	450	918	755

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Metal - butterfly valves

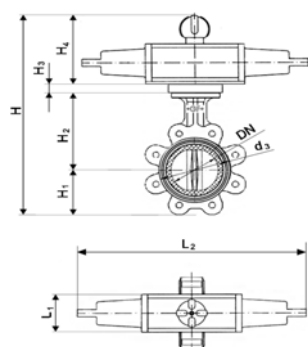
d [mm]	Actuator unit type	M [inch]	D [mm]	N [mm]	D1 [mm]	D2 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	
900	CH-B500	1 ½	39	28	1086	1004	643	707	700	640	1550	852	
1000	CH-B500	1 ½	39	32	1200	1114	729	755	700	640	1550	958	
1200	CH-B500	1 ½	39	44	1422	1330	855	900	700	640	1550	1098	



Metal - butterfly valves

Metal - butterfly valves pneumatic lug metric

Metal - butterfly valve type 038P FC (Fail safe to close) Without manual override



Model:

- Seatliner available in EPDM and FPM
- Housing: ductile iron GGG-40/ASTM A536, Rilsan® coated
- Available in ANSI standard upon request
- In case this valve is used at the end of the line, the following pressures must not be exceeded: DN50 to DN150 5,6bar and >DN200 3,5bar

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: ductile iron/ Rilsan® coated EPDM Code	Disc: stainless steel EPDM Code
63	50	2	10	3140	220	199 038 052	199 038 252
75	65	2 ½	10	4570	320	199 038 053	199 038 253
90	80	3	10	7140	500	199 038 054	199 038 254
110	100	4	10	11710	820	199 038 055	199 038 255
140	125	5	10	18570	1300	199 038 056	199 038 256
160	150	6	10	27130	1900	199 038 057	199 038 257
225	200	8	10	47130	3330	199 038 058	199 038 258
280	250	10	10	77110	5400	199 038 059	199 038 259
315	300	12	10	114240	8000	199 038 060	199 038 260

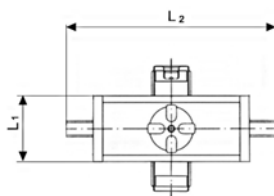
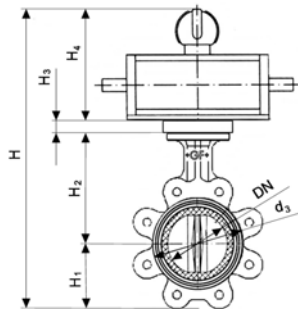
d [mm]	Actuator unit type	d3 [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]
63	PA-30	95	65	240	321	63	140	15	103
75	PA-30	114	65	240	343	73	152	15	103
90	PA-35	131	72	294	365	81	159	12	113
110	PA-40	152	80	320	420	97	178	15	130
140	PA-45	182	90	357	455	112	191	12	140
160	PA-50	209	100	395	487	122	203	12	150
225	PA-60	262	124	487	580	149	245	12	174
280	PA-60	331	124	487	672	203	275	20	174
315	PA-70	380	145	551	774	241	315	20	198

Metal - butterfly valves

Metal - butterfly valve type 038P DA (Double acting) Without manual override

Model:

- Seatliner available in EPDM and FPM
- Housing: ductile iron GGG-40/ASTM A536, Rilsan® coated
- Available in ANSI standard upon request
- In case this valve is used at the end of the line, the following pressures must not be exceeded: DN50 to DN150 5,6bar and >DN200 3,5bar



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv value ($\Delta p=1$ psi) [gal (US) / min]	Disc: ductile iron/ Rilsan® coated EPDM Code	Disc: stainless steel EPDM Code
63	50	2	10	3140	220	199 038 104	199 038 304
75	65	2 ½	10	4570	320	199 038 105	199 038 305
90	80	3	10	7140	500	199 038 106	199 038 306
110	100	4	10	11710	820	199 038 107	199 038 307
140	125	5	10	18570	1300	199 038 108	199 038 308
160	150	6	10	27130	1900	199 038 109	199 038 309
225	200	8	10	47130	3330	199 038 110	199 038 310
280	250	10	10	77110	5400	199 038 111	199 038 311
315	300	12	10	114240	8000	199 038 112	199 038 312

d [mm]	Actuator unit type	d3 [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]
63	PA-35	95	60	144	317	63	140	15	99
75	PA-35	114	60	144	339	73	152	15	99
90	PA-35	131	60	144	354	81	159	15	99
110	PA-45	152	72	169	402	97	178	15	112
140	PA-45	182	72	169	430	112	191	15	112
160	PA-55	209	90	212	480	122	203	15	140
225	PA-60	262	100	255	559	149	245	15	150
280	PA-65	331	112	264	665	203	275	25	162
315	PA-70	380	124	295	755	241	315	25	174

Metal - butterfly valves

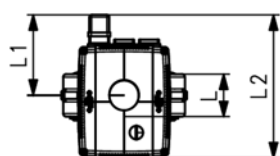
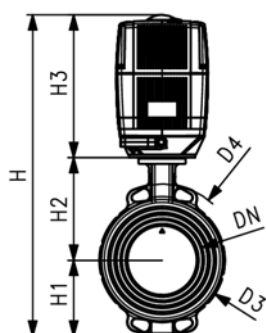
Metal - butterfly valves electric wafer Metric/Inch/ASTM

Metal - butterfly valve type 037E 100-230V 50-60Hz Without manual override

Model:

- Voltage 100-230 V, 50-60 Hz for EA31
- Housing: Aluminium ASTM S 12A, Rilsan® coated
- Seatliner available in EPDM and FPM

* Electric actuator for higher nominal pressure on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: ductile iron/ Rilsan® coated EPDM Code	Disc: ductile iron/ Rilsan® coated FPM Code
63	50	2	10	3140	220	199 037 130	199 037 143
75	65	2 ½	10	4570	320	199 037 131	199 037 144
90	80	3	10	7140	500	199 037 132	199 037 145
110	100	4	10	11710	820	199 037 133	199 037 146
140	125	5	10	18570	1300	199 037 134	199 037 147
160	150	6	10	27130	1900	199 037 135	199 037 148
225	200	8	10	47130	3330	199 037 136	199 037 149
* 280	250	10	6	77110	5400	199 037 137	199 037 150
* 315	300	12	4	114240	8000	199 037 138	199 037 151

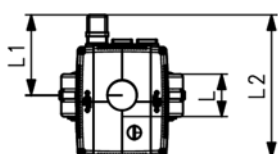
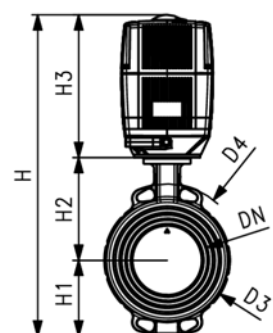
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: stainless steel EPDM Code	Disc: stainless steel FPM Code
63	50	2	10	3140	220	199 037 330	199 037 343
75	65	2 ½	10	4570	320	199 037 331	199 037 344
90	80	3	10	7140	500	199 037 332	199 037 345
110	100	4	10	11710	820	199 037 333	199 037 346
140	125	5	10	18570	1300	199 037 334	199 037 347
160	150	6	10	27130	1900	199 037 335	199 037 348
225	200	8	10	47130	3330	199 037 336	199 037 349
* 280	250	10	6	77110	5400	199 037 337	199 037 350
* 315	300	12	4	114240	8000	199 037 338	199 037 351

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: Alu-bronze EPDM Code	Disc: Alu-bronze FPM Code
63	50	2	10	3140	220	199 037 530	199 037 543
75	65	2 ½	10	4570	320	199 037 531	199 037 544
90	80	3	10	7140	500	199 037 532	199 037 545
110	100	4	10	11710	820	199 037 533	199 037 546
140	125	5	10	18570	1300	199 037 534	199 037 547
160	150	6	10	27130	1900	199 037 535	199 037 548
225	200	8	10	47130	3330	199 037 536	199 037 549
* 280	250	10	6	77110	5400	199 037 537	199 037 550
* 315	300	12	4	114240	8000	199 037 538	199 037 551

d [mm]	Actuator unit type	D3 [mm]	D4 [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]
63	EA-31	96	165	43	28	122	383	53	140	190
75	EA-31	114	185	46	28	122	405	63	152	190
90	EA-31	131	190	46	28	122	420	71	159	190
110	EA-31	152	229	52	64	181	415	87	178	149
140	EA-31	182	254	56	60	220	443	102	191	149

table continued next page

Metal - butterfly valves



d [mm]	Actuator unit type	D3 [mm]	D4 [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	
160	EA-42	209	285	56	60	220	475	122	203	149	
225	EA-42	262	343	60	60	220	540	149	241	149	
* 280	EA-42	323	333	68	70	220	671	201	273	197	
* 315	EA-42	373	353	78	70	220	739	231	311	197	

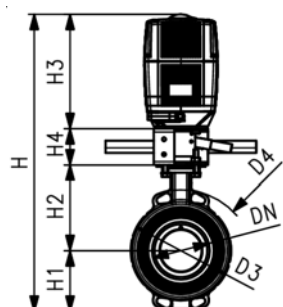


Metal - butterfly valve type 037E 100-230V 50-60Hz With manual override

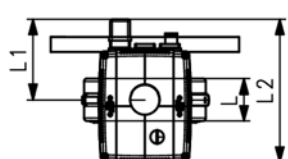
Model:

- Voltage 100-230 V, 50-60 Hz for EA31
- Housing: Aluminium ASTM S 12A, Rilsan® coated
- Seatliner available in EPDM and FPM

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: ductile iron/ Rilsan® coated EPDM Code	Disc: ductile iron/ Rilsan® coated FPM Code	
63	50	2	10	3140	220	199 037 156	199 037 169	
75	65	2 ½	10	4570	320	199 037 157	199 037 170	
90	80	3	10	7140	500	199 037 158	199 037 171	
110	100	4	10	11710	820	199 037 159	199 037 172	
140	125	5	10	18750	1300	199 037 160	199 037 173	
160	150	6	10	27130	1900	199 037 161	199 037 174	
225	200	8	10	47130	3330	199 037 162	199 037 175	



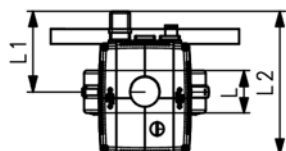
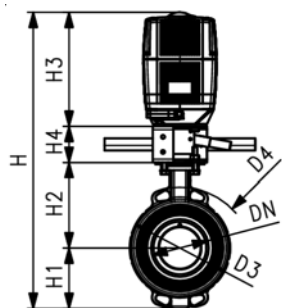
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: stainless steel EPDM Code	Disc: stainless steel FPM Code	
63	50	2	10	3140	220	199 037 356	199 037 369	
75	65	2 ½	10	4570	320	199 037 357	199 037 370	
90	80	3	10	7140	500	199 037 358	199 037 371	
110	100	4	10	11710	820	199 037 359	199 037 372	
140	125	5	10	18750	1300	199 037 360	199 037 373	
160	150	6	10	27130	1900	199 037 361	199 037 374	
225	200	8	10	47130	3330	199 037 362	199 037 375	



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: Alu-bronze EPDM Code	Disc: Alu-bronze FPM Code	
63	50	2	10	3140	220	199 037 556	199 037 569	
75	65	2 ½	10	4570	320	199 037 557	199 037 570	
90	80	3	10	7140	500	199 037 558	199 037 571	
110	100	4	10	11710	820	199 037 559	199 037 572	

table continued next page

Metal - butterfly valves



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv value ($\Delta p=1$ psi) [gal (US) / min]	Disc: Alu-bronze EPDM Code	Disc: Alu-bronze FPM Code
140	125	5	10	18750	1300	199 037 560	199 037 573
160	150	6	10	27130	1900	199 037 561	199 037 574
225	200	8	10	47130	3330	199 037 562	199 037 575

d [mm]	Actuator unit type	D3 [mm]	D4 [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]
63	EA-31	96	165	43	28	122	443	53	140	190	60
75	EA-31	114	185	46	28	122	465	63	152	190	60
90	EA-31	131	190	46	28	122	480	71	159	190	60
110	EA-31	152	229	52	60	220	475	87	178	150	60
140	EA-31	182	254	56	60	220	503	102	191	150	60
160	EA-42	209	285	56	60	220	535	122	203	150	60
225	EA-42	262	343	60	60	220	600	149	241	150	60



Metal - butterfly valve type 037E 100-230V 50-60Hz Without manual override DN350-1200 metric

Model:

- Housing: Ductile Iron ASTM A 395, Epoxy coated
- Seatliner available in EPDM, FPM on request
- Disc available in Aluminium Bronze on request
- Connecting dimension: EN 1092 PN10, ANSI B 16.5 Class 150
- Up to DN 500: Overall length according to EN558, line 20, ISO 5752

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	Disc: ductile iron: EPOXY coated EPDM Code	Disc: stainless steel EPDM Code
355	350	10	143360	198 037 300	198 037 310
400	400	10	186700	198 037 301	198 037 311
450	450	10	258390	198 037 302	198 037 312
500	500	10	316730	198 037 303	198 037 313
630	600	10	431750	198 037 304	198 037 314
700	700	10	618333	198 037 305	198 037 315
800	800	10	675000	198 037 306	198 037 316
900	900	10	1005200	198 037 307	198 037 317
1000	1000	10	1306930	198 037 308	198 037 318
1200	1200	10	1907050	198 037 309	198 037 319

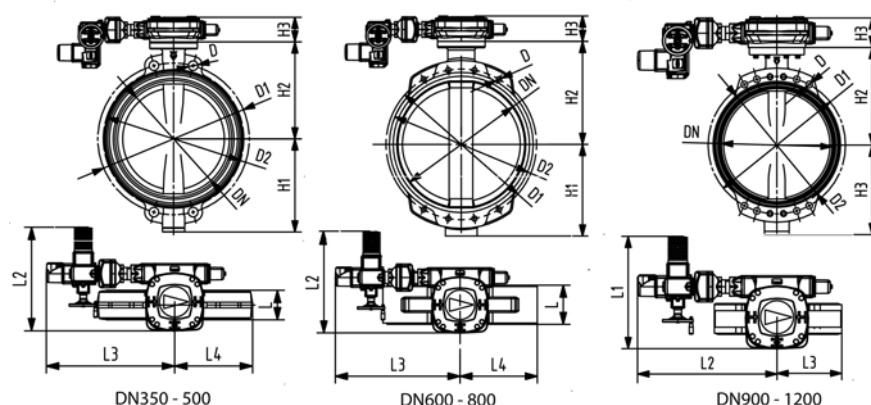
d [mm]	Actuator unit type	M [mm]	D [mm]	N [mm]	D1 [mm]	D2 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]
355	GS 80	20	21	16	460	442	291	307	307	78	130	527	514
400	GS 80	24	25	16	515	493	325	342	307	102	154	527	514
450	GS 100	24	25	20	565	544	357	387	321	113	182	690	514
500	GS 125	24	25	20	620	601	381	425	321	126	182	690	514
630	GS 125	27	28	20	725	695	488	532	330	146	286	710	744
700	GS 125	27	28	24	840	798	506	573	330	175	286	710	744
800	GS 160	30	31	24	950	908	578	650	313	215	286	990	514
900	GS 160	30	31	28	1050	1004	643	707	323	246	370	990	538
1000	GS 160	33	34	28	1160	1114	729	755	323	280	370	990	538
1200	GS 200	36	37	32	1380	1330	855	900	348	360	510	1133	538

d [mm]	Q1 [mm]
355	332
400	382
450	432

table continued next page

Metal - butterfly valves

d [mm]	Q1 [mm]	
500	478	
630	585	
700	683	
800	755	
900	852	
1000	958	
1200	1098	



Metal - butterfly valve type 037E 100-230V 50-60Hz Without manual override DN350-1200 ANSI

Model:

- Housing: Ductile Iron ASTM A 395, Epoxy coated
- Seatliner available in EPDM, FPM on request
- Disc available in Aluminium Bronze on request
- Connecting dimension: EN 1092 PN10, ANSI B 16.5 Class 150
- Up to DN 500: Overall length according to EN558, line 20, ISO 5752

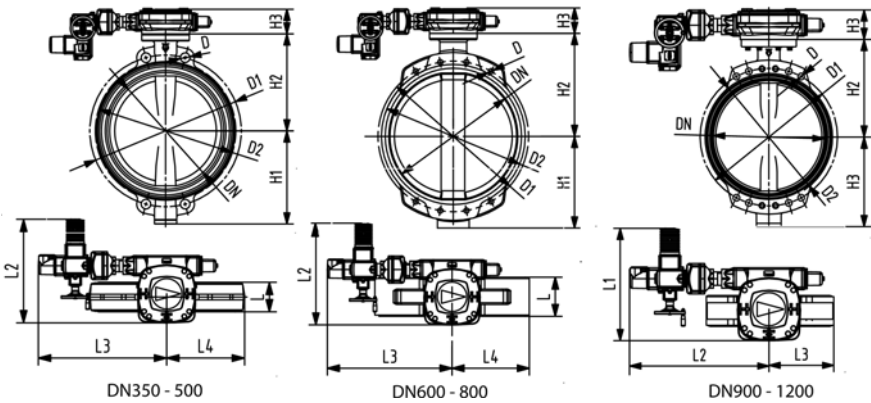
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	Disc: ductile iron: EPOXY coated EPDM Code	Disc: stainless steel EPDM Code
355	350	10	143360	198 037 320	198 037 330
400	400	10	186700	198 037 321	198 037 331
450	450	10	258390	198 037 322	198 037 332
500	500	10	316730	198 037 323	198 037 333
630	600	10	431750	198 037 324	198 037 334
700	700	10	618333	198 037 325	198 037 335
800	800	10	675000	198 037 326	198 037 336
900	900	10	1005200	198 037 327	198 037 337
1000	1000	10	1306930	198 037 328	198 037 338
1200	1200	10	1907050	198 037 329	198 037 339

d [mm]	Actuator unit type	M [inch]	D [mm]	N [mm]	D1 [mm]	D2 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L2 [mm]	L3 [mm]
355	GS 80	1	26	12	476	442	291	307	307	78	130	527
400	GS 80	1	26	16	540	493	325	342	307	102	154	527
450	GS 100	1 1/8	29	20	578	544	357	387	321	113	182	690
500	GS 125	1 1/8	29	20	635	601	381	425	321	126	182	690
630	GS 125	1 1/4	32	20	749	695	488	532	330	146	286	710
700	GS 125	1 1/4	32	28	864	798	506	573	330	175	286	710
800	GS 160	1 1/2	39	28	978	908	578	650	313	215	286	990
900	GS 160	1 1/2	39	28	1086	1004	643	707	323	246	370	990
1000	GS 160	1 1/2	39	32	1200	1114	729	755	323	280	370	990
1200	GS 200	1 1/2	39	44	1422	1330	855	900	348	360	510	1133

table continued next page

Metal - butterfly valves

d [mm]	L4 [mm]	Q1 [mm]	
355	514	332	
400	514	382	
450	514	432	
500	514	478	
630	744	585	
700	744	683	
800	514	755	
900	538	852	
1000	538	958	
1200	538	1098	



Metal - butterfly valves

Metal - butterfly valves electric lug metric

Metal - butterfly valve type 038E 100-230V 50-60Hz Without manual override

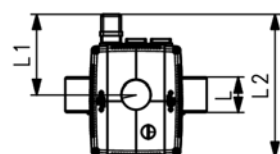
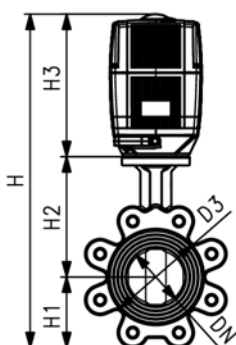
Model:

- Voltage 100-230 V, 50-60 Hz for EA31
- Voltage 115/230 V, 50-60 Hz for EA41/EA50
- Seatliner available in EPDM and FPM
- Housing: ductile iron GGG-40/ASTM A536, Rilsan® coated
- Available in 24 V AC/DC and/or other in ANSI standard upon request
- In case this valve is used at the end of the line, the following pressures must not be exceeded: DN50 to DN150 5,6bar and >DN200 3,5bar

* Electric actuator for higher nominal pressure on request

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: ductile iron/ Rilsan® coated EPDM Code	Disc: stainless steel EPDM Code
63	50	2	10	3140	220	199 038 130	199 038 330
75	65	2 ½	10	4570	320	199 038 131	199 038 331
90	80	3	10	7140	500	199 038 132	199 038 332
110	100	4	10	11710	820	199 038 133	199 038 333
140	125	5	10	18570	1300	199 038 134	199 038 334
160	150	6	10	27130	1900	199 038 135	199 038 335
225	200	8	10	47130	3330	199 038 136	199 038 336
* 280	250	10	6	77110	5400	199 038 137	199 038 337
* 315	300	12	4	114240	8000	199 038 138	199 038 338

d [mm]	Actuator unit type	d3 [mm]	L [mm]	L1 [mm]	L2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]
63	EA-31	65	43	28	122	393	63	140	190
75	EA-31	114	46	28	122	415	73	152	190
90	EA-31	131	46	28	122	430	81	159	190
110	EA-31	152	52	60	220	333	97	178	58
140	EA-31	182	56	60	220	361	112	191	58
160	EA-42	209	56	60	220	383	122	203	58
225	EA-42	262	60	60	220	452	149	245	58
* 280	EA-42	331	68	70	220	545	203	275	67
* 315	EA-42	380	78	70	220	623	241	315	67



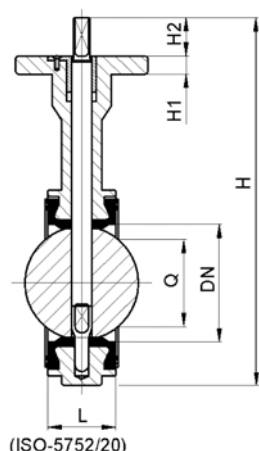
Metal - butterfly valves

Spare parts

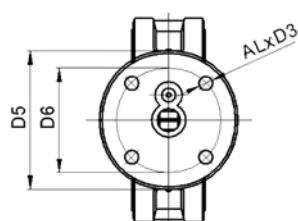
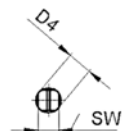
Bare shaft metal - butterfly valve type 037 Metric/Inch/ASTM

Model:

- Housing: Aluminium ASTM S 12A, Rilsan® coated
- Seatliner available in EPDM and FPM



DN 50-300



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv value ($\Delta p=1$ psi) [gal (US) / min]	Disc: ductile iron/ Rilsan® coated EPDM Code	Disc: ductile iron/ Rilsan® coated FPM Code
63	50	2	10	3140	220	198 150 800	198 150 832
75	65	2 ½	10	4570	320	198 150 801	198 150 833
90	80	3	10	7140	500	198 150 802	198 150 834
110	100	4	10	11710	820	198 150 803	198 150 835
140	125	5	10	18570	1300	198 150 804	198 150 836
160	150	6	10	27130	1900	198 150 805	198 150 837
225	200	8	10	47130	3330	198 150 806	198 150 838
280	250	10	10	77110	5400	198 150 807	198 150 839
315	300	12	10	114240	8000	198 150 808	198 150 840

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv value ($\Delta p=1$ psi) [gal (US) / min]	Disc: stainless steel EPDM Code	Disc: stainless steel FPM Code
63	50	2	10	3140	220	198 150 843	198 150 854
75	65	2 ½	10	4570	320	198 150 844	198 150 855
90	80	3	10	7140	500	198 150 845	198 150 856
110	100	4	10	11710	820	198 150 846	198 150 857
140	125	5	10	18570	1300	198 150 847	198 150 858
160	150	6	10	27130	1900	198 150 848	198 150 859
225	200	8	10	47130	3330	198 150 849	198 150 860
280	250	10	10	77110	5400	198 150 850	198 150 861
315	300	12	10	114240	8000	198 150 851	198 150 862

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv value ($\Delta p=1$ psi) [gal (US) / min]	Disc: Alu-bronze EPDM Code	Disc: Alu-bronze FPM Code
63	50	2	10	3140	220	198 151 000	198 151 011
75	65	2 ½	10	4570	320	198 151 001	198 151 012
90	80	3	10	7140	500	198 151 002	198 151 013
110	100	4	10	11710	820	198 151 003	198 151 014
140	125	5	10	18570	1300	198 151 004	198 151 015
160	150	6	10	27130	1900	198 151 005	198 151 016
225	200	8	10	47130	3330	198 151 006	198 151 017
280	250	10	10	77110	5400	198 151 007	198 151 018
315	300	12	10	114240	8000	198 151 008	198 151 019

d [mm]	Q [mm]	L [mm]		AL	D3 [mm]	D4 [mm]	D5 [mm]	D6 [mm]	H [mm]	H1 [mm]	H2 [mm]	SW [mm]
63	32	43	F-07	4	9	14	90	70	221	13	26	11
75	51	46	F-07	4	9	14	90	70	243	13	26	11
90	69	46	F-07	4	9	14	90	70	258	13	26	11
110	89	52	F-07	4	9	18	90	70	295	16	30	14
140	115	56	F-07	4	9	18	90	70	323	16	30	14
160	143	56	F-07	4	9	22	90	70	354	17	33	17
225	194	60	F-07	4	9	22	90	70	427	17	33	17
280	243	68	F-10	4	11	28	125	102	522	17	47	22
315	293	78	F-10	4	11	28	125	102	589	17	47	22

Metal - butterfly valves

Bare shaft metal - butterfly valve type 038 metric

Model:

- Seatliner available in EPDM and FPM
- Housing: ductile iron GGG-40/ASTM A536, Rilsan® coated
- Available in ANSI standard upon request
- In case this valve is used at the end of the line, the following pressures must not be exceeded: DN50 to DN150 5,6bar and >DN200 3,5bar



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: ductile iron/ Rilsan® coated EPDM Code	Disc: ductile iron/ Rilsan® coated FPM Code
63	50	2	10	3140	220	198 150 811	198 151 022
75	65	2 ½	10	4570	320	198 150 812	198 151 023
90	80	3	10	7140	500	198 150 813	198 151 024
110	100	4	10	11710	820	198 150 814	198 151 025
140	125	5	10	18570	1300	198 150 815	198 151 026
160	150	6	10	27130	1900	198 150 816	198 151 027
225	200	8	10	47130	3330	198 150 817	198 151 028
280	250	10	10	77110	5400	198 150 818	198 151 029
315	300	12	10	114240	8000	198 150 819	198 151 030

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: stainless steel EPDM Code	Disc: stainless steel FPM Code
63	50	2	10	3140	220	198 151 031	198 151 040
75	65	2 ½	10	4570	320	198 151 032	198 151 041
90	80	3	10	7140	500	198 151 033	198 151 042
110	100	4	10	11710	820	198 151 034	198 151 043
140	125	5	10	18570	1300	198 151 035	198 151 044
160	150	6	10	27130	1900	198 151 036	198 151 045
225	200	8	10	47130	3330	198 151 037	198 151 046
280	250	10	10	77110	5400	198 151 038	198 151 047
315	300	12	10	114240	8000	198 151 039	198 151 048

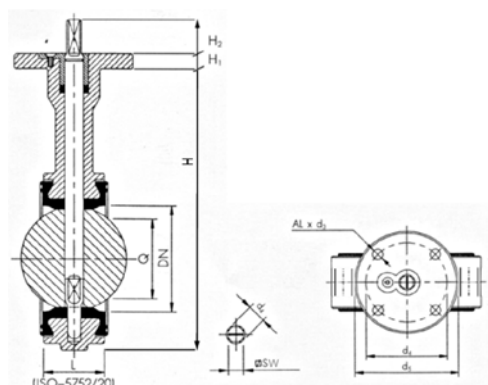
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	Cv val- ue ($\Delta p=1$ psi) [gal (US) / min]	Disc: Alu-bronze EPDM Code	Disc: Alu-bronze FPM Code
63	50	2	10	3140	220	198 151 049	198 151 058
75	65	2 ½	10	4570	320	198 151 050	198 151 059
90	80	3	10	7140	500	198 151 051	198 151 060
110	100	4	10	11710	820	198 151 052	198 151 061
140	125	5	10	18570	1300	198 151 053	198 151 062
160	150	6	10	27130	1900	198 151 054	198 151 063
225	200	8	10	47130	3330	198 151 055	198 151 064
280	250	10	10	77110	5400	198 151 056	198 151 065
315	300	12	10	114240	8000	198 151 057	198 151 066

d [mm]	Q [mm]	L [mm]		AL	D3 [mm]	D4 [mm]	D5 [mm]	D6 [mm]	H [mm]	H1 [mm]	H2 [mm]	SW [mm]
63	32	43	F-07	4	9	14	90	70	229	13	26	11
75	51	46	F-07	4	9	14	90	70	251	13	26	11
90	69	46	F-07	4	9	14	90	70	266	13	26	11
110	89	52	F-07	4	9	18	90	70	305	16	30	14
140	115	56	F-07	4	9	18	90	70	333	16	30	14
160	143	56	F-07	4	9	22	90	70	358	17	33	17

table continued next page

Metal - butterfly valves

d [mm]	Q [mm]	L [mm]		AL	D3 [mm]	D4 [mm]	D5 [mm]	D6 [mm]	H [mm]	H1 [mm]	H2 [mm]	SW [mm]	
225	194	60	F-07	4	9	22	90	70	427	17	33	17	
280	243	68	F-10	4	11	28	125	102	525	17	47	22	
315	293	78	F-10	4	11	28	125	102	603	17	47	22	



Seat liner for type 037/038



d [mm]	DN [mm]	Inch	EPDM Code	FPM Code	CSM Code	NBR Code	
63	50	2	198 806 726	198 806 713	198 806 854	198 806 937	
75	65	2 ½	198 806 727	198 806 714	198 806 855	198 806 938	
90	80	3	198 806 728	198 806 715	198 806 856	198 806 939	
110	100	4	198 806 729	198 806 716	198 806 857	198 806 940	
140	125	5	198 806 730	198 806 717	198 806 858	198 806 941	
160	150	6	198 806 731	198 806 718	198 806 859	198 806 942	
225	200	8	198 806 732	198 806 719	198 806 860	198 806 943	
280	250	10	198 806 733	198 806 720	198 806 861	198 806 944	
315	300	12	198 806 734	198 806 721	198 806 862	198 806 945	

Disc for type 037/038



d [mm]	DN [mm]	Inch	Ductile iron (GGG40)/ Rilsan® coated Code	Stainless steel (ASTM A351 - CF8M - 1.4408) Code	Aluminium- bronze (ASTM B- 148) Code	
63	50	2	198 806 740	198 806 700	198 806 920	
75	65	2 ½	198 806 741	198 806 701	198 806 921	
90	80	3	198 806 742	198 806 702	198 806 922	
110	100	4	198 806 743	198 806 703	198 806 923	
140	125	5	198 806 744	198 806 704	198 806 924	
160	150	6	198 806 745	198 806 705	198 806 925	
225	200	8	198 806 746	198 806 706	198 806 926	
280	250	10	198 806 747	198 806 707	198 806 927	
315	300	12	198 806 748	198 806 708	198 806 928	

Shaft for type 037/038



d [mm]	DN [mm]	Inch	Stainless steel AISI 420 / V2A Code	Stainless steel AISI 316 / V4A Code	
63	50	2	198 806 780	198 806 790	
75	65	2 ½	198 806 781	198 806 791	
90	80	3	198 806 782	198 806 792	
110	100	4	198 806 783	198 806 793	
140	125	5	198 806 784	198 806 794	
160	150	6	198 806 785	198 806 795	

table continued next page

Metal - butterfly valves

d [mm]	DN [mm]	Inch	Stainless steel AISI 420 / V2A Code	Stainless steel AISI 316 / V4A Code	
225	200	8	198 806 786	198 806 796	
280	250	10	198 806 787	198 806 797	
315	300	12	198 806 788	198 806 798	



Variable area flow meters

582

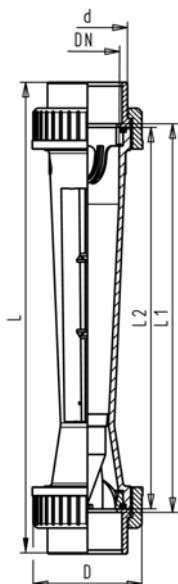
Variable area flow meters

Variable area flow meters

Variable area flow meter type 335

Float in PVDF without magnet

With solvent cement sockets PVC-U metric



Scale range [l/h]	d [mm]	DN [mm]	Taper tube in PVC-U transp. O- rings in EPDM Code	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O- rings in EPDM Code	
50 - 500	32	25	198 335 000	198 335 020	198 335 040	
100 - 1000	32	25	198 335 001	198 335 021	198 335 041	
150 - 1500	40	32	198 335 002	198 335 022	198 335 042	
250 - 2500	40	32	198 335 003	198 335 023	198 335 043	
200 - 2000	50	40	198 335 004	198 335 024	198 335 044	
300 - 3000	50	40	198 335 005	198 335 025	198 335 045	
600 - 6000	50	40	198 335 006	198 335 026	198 335 046	
600 - 6000	63	50	198 335 007	198 335 027	198 335 047	
1000 - 10000	63	50	198 335 008	198 335 028	198 335 048	
1500 - 15000	63	50	198 335 009	198 335 029	198 335 049	
2000 - 20000	75	65	198 335 010	198 335 030	198 335 050	
3000 - 30000	75	65	198 335 011	198 335 031	198 335 051	
8000 - 60000	75	65	198 335 012	198 335 032	198 335 052	

Scale range [l/h]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	G [inch]	
50 - 500	58	385	341	335	1 ½	
100 - 1000	58	385	341	335	1 ½	
150 - 1500	72	393	341	335	2	
250 - 2500	72	393	341	335	2	
200 - 2000	83	403	341	335	2 ¼	
300 - 3000	83	403	341	335	2 ¼	
600 - 6000	83	403	341	335	2 ¼	
600 - 6000	101	417	341	335	2 ¾	
1000 - 10000	101	417	341	335	2 ¾	
1500 - 15000	101	417	341	335	2 ¾	
2000 - 20000	135	429	341	335	3 ½	
3000 - 30000	135	429	341	335	3 ½	
8000 - 60000	135	429	341	335	3 ½	

Variable area flow meters

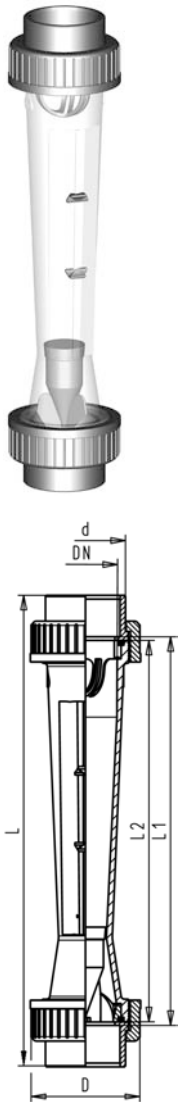
Variable area flow meter type 335

Float in PVDF with magnet

With solvent cement sockets PVC-U metric

Model:

- Suitable limit switches see accessories for variable area flow meters



Scale range [l/h]	d [mm]	DN [mm]	Taper tube in PVC-U transp. O- Rings in EPDM Code	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O- rings in EPDM Code	
50 - 500	32	25	198 335 100	198 335 120	198 335 140	
100 - 1000	32	25	198 335 101	198 335 121	198 335 141	
150 - 1500	40	32	198 335 102	198 335 122	198 335 142	
250 - 2500	40	32	198 335 103	198 335 123	198 335 143	
200 - 2000	50	40	198 335 104	198 335 124	198 335 144	
300 - 3000	50	40	198 335 105	198 335 125	198 335 145	
600 - 6000	50	40	198 335 106	198 335 126	198 335 146	
600 - 6000	63	50	198 335 107	198 335 127	198 335 147	
1000 - 10000	63	50	198 335 108	198 335 128	198 335 148	
1500 - 15000	63	50	198 335 109	198 335 129	198 335 149	
2000 - 20000	75	65	198 335 110	198 335 130	198 335 150	
3000 - 30000	75	65	198 335 111	198 335 131	198 335 151	
8000 - 60000	75	65	198 335 112	198 335 132	198 335 152	

Scale range [l/h]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	G [inch]	
50 - 500	58	385	341	335	1 ½	
100 - 1000	58	385	341	335	1 ½	
150 - 1500	72	393	341	335	2	
250 - 2500	72	393	341	335	2	
200 - 2000	83	403	341	335	2 ¼	
300 - 3000	83	403	341	335	2 ¼	
600 - 6000	83	403	341	335	2 ¼	
600 - 6000	101	417	341	335	2 ¾	
1000 - 10000	101	417	341	335	2 ¾	
1500 - 15000	101	417	341	335	2 ¾	
2000 - 20000	135	429	341	335	3 ½	
3000 - 30000	135	429	341	335	3 ½	
8000 - 60000	135	429	341	335	3 ½	

Variable area flow meters

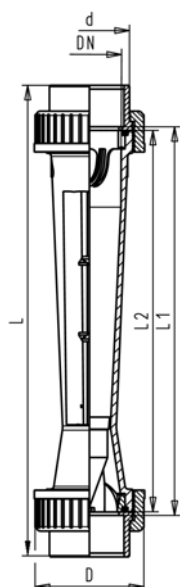
Variable area flow meter type 350

Float in PVDF with magnet

With solvent cement sockets PVC-U metric

Model:

- Suitable limit switches see accessories for variable area flow meters



Scale range [l/h]	d [mm]	DN [mm]	Taper tube in PVC-U transp. O- Rings in EPDM Code	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O- rings in EPDM Code	
50 - 500	32	25	198 350 100	198 350 120	198 350 140	
100 - 1000	32	25	198 350 101	198 350 121	198 350 141	
150 - 1500	40	32	198 350 102	198 350 122	198 350 142	
250 - 2500	40	32	198 350 103	198 350 123	198 350 143	
200 - 2000	50	40	198 350 104	198 350 124	198 350 144	
300 - 3000	50	40	198 350 105	198 350 125	198 350 145	
600 - 6000	50	40	198 350 106	198 350 126	198 350 146	
600 - 6000	63	50	198 350 107	198 350 127	198 350 147	
1000 - 10000	63	50	198 350 108	198 350 128	198 350 148	
1500 - 15000	63	50	198 350 109	198 350 129	198 350 149	
2000 - 20000	75	65	198 350 110	198 350 130	198 350 150	
3000 - 30000	75	65	198 350 111	198 350 131	198 350 151	
8000 - 60000	75	65	198 350 112	198 350 132	198 350 152	

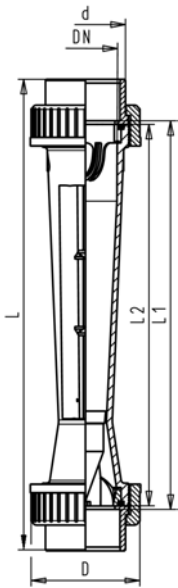
Scale range [l/h]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	G [inch]	
50 - 500	58	400	356	350	1 ½	
100 - 1000	58	400	356	350	1 ½	
150 - 1500	72	408	356	350	2	
250 - 2500	72	408	356	350	2	
200 - 2000	83	418	356	350	2 ¼	
300 - 3000	83	418	356	350	2 ¼	
600 - 6000	83	418	356	350	2 ¼	
600 - 6000	101	432	356	350	2 ¾	
1000 - 10000	101	432	356	350	2 ¾	
1500 - 15000	101	432	356	350	2 ¾	
2000 - 20000	135	444	356	350	3 ½	
3000 - 30000	135	444	356	350	3 ½	
8000 - 60000	135	444	356	350	3 ½	

Variable area flow meters

Variable area flow meter type 350

Float in PVDF without magnet

With solvent cement sockets PVC-U metric



Scale range [l/h]	d [mm]	DN [mm]	Taper tube in PVC-U transp. O- rings in EPDM Code	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O- rings in EPDM Code	
50 - 500	32	25	198 350 000	198 350 020	198 350 040	
100 - 1000	32	25	198 350 001	198 350 021	198 350 041	
150 - 1500	40	32	198 350 002	198 350 022	198 350 042	
250 - 2500	40	32	198 350 003	198 350 023	198 350 043	
200 - 2000	50	40	198 350 004	198 350 024	198 350 044	
300 - 3000	50	40	198 350 005	198 350 025	198 350 045	
600 - 6000	50	40	198 350 006	198 350 026	198 350 046	
600 - 6000	63	50	198 350 007	198 350 027	198 350 047	
1000 - 10000	63	50	198 350 008	198 350 028	198 350 048	
1500 - 15000	63	50	198 350 009	198 350 029	198 350 049	
2000 - 20000	75	65	198 350 010	198 350 030	198 350 050	
3000 - 30000	75	65	198 350 011	198 350 031	198 350 051	
8000 - 60000	75	65	198 350 012	198 350 032	198 350 052	

Scale range [l/h]	D [mm]	L [mm]	L1 [mm]	L2 [mm]	G [inch]	
50 - 500	58	400	356	350	1 ½	
100 - 1000	58	400	356	350	1 ½	
150 - 1500	72	408	356	350	2	
250 - 2500	72	408	356	350	2	
200 - 2000	83	418	356	350	2 ¼	
300 - 3000	83	418	356	350	2 ¼	
600 - 6000	83	418	356	350	2 ¼	
600 - 6000	101	432	356	350	2 ¾	
1000 - 10000	101	432	356	350	2 ¾	
1500 - 15000	101	432	356	350	2 ¾	
2000 - 20000	135	444	356	350	3 ½	
3000 - 30000	135	444	356	350	3 ½	
8000 - 60000	135	444	356	350	3 ½	

Variable area flow meters

Short version

Float in PVDF without magnet

With solvent cement sockets PVC-U metric

Model:

- Union nuts and valve ends in other materials on request



Type	d [mm]	DN [mm]	Scale range [l/h]	Taper tube in Polysulfone O- rings in EPDM Code	Taper tube in PVC-U transp. O- rings in EPDM Code	
SK 50	16	10	2.5 - 25	198 801 880	198 803 310	
SK 51	16	10	5 - 50	198 801 881	198 803 311	
SK 52	16	10	10 - 100	198 801 882	198 803 312	
SK 60	20	15	8 - 80	198 801 883	198 803 313	
SK 61	20	15	15 - 150	198 801 884	198 803 314	
SK 62	20	15	20 - 200	198 801 885	198 803 315	
SK 70	32	25	15 - 150	198 801 886	198 803 316	
SK 71	32	25	30 - 300	198 801 887	198 803 317	
SK 72	32	25	50 - 500	198 801 888	198 803 318	
SK 73	32	25	100 - 1000	198 801 889	198 803 319	

Type	D [mm]	L [mm]	L1 [mm]	L2 [mm]	Rp [inch]	
SK 50	35	199	171	165	3/8	
SK 51	35	199	171	165	3/8	
SK 52	35	199	171	165	3/8	
SK 60	43	223	191	185	1/2	
SK 61	43	223	191	185	1/2	
SK 62	43	223	191	185	1/2	
SK 70	60	250	206	200	1	
SK 71	60	250	206	200	1	
SK 72	60	250	206	200	1	
SK 73	60	250	206	200	1	

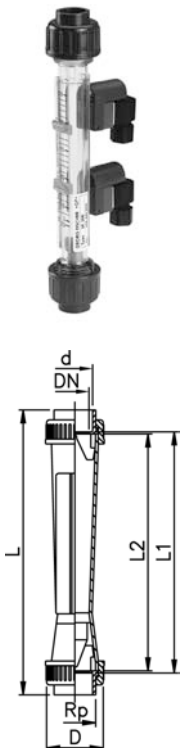
Short version

Float in PVDF with magnet

With solvent cement sockets PVC-U metric

Model:

- Union nuts and valve ends in other materials on request
- Suitable limit switches see accessories for variable area flow meters

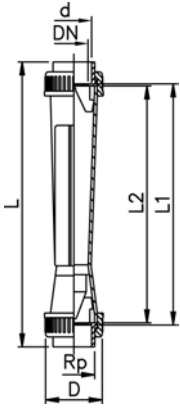


Type	d [mm]	DN [mm]	Scale range [l/h]	Taper tube in Polysulfone O- rings in EPDM Code	Taper tube in PVC-U transp. O- rings in EPDM Code	
SK 500	16	10	2.5 - 25	198 801 890	198 803 320	
SK 510	16	10	5 - 50	198 801 891	198 803 321	
SK 520	16	10	10 - 100	198 801 892	198 803 322	
SK 600	20	15	8 - 80	198 801 893	198 803 323	
SK 610	20	15	15 - 150	198 801 894	198 803 324	
SK 620	20	15	20 - 200	198 801 895	198 803 325	
SK 700	32	25	15 - 150	198 801 896	198 803 326	
SK 710	32	25	30 - 300	198 801 897	198 803 327	
SK 720	32	25	50 - 500	198 801 898	198 803 328	
SK 730	32	25	100 - 1000	198 801 899	198 803 329	

Type	D [mm]	L [mm]	L1 [mm]	L2 [mm]	Rp [inch]	
SK 500	35	199	171	165	3/8	
SK 510	35	199	171	165	3/8	
SK 520	35	199	171	165	3/8	
SK 600	43	223	191	185	1/2	
SK 610	43	223	191	185	1/2	

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Variable area flow meters

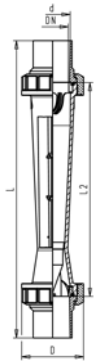


Type	D [mm]	L [mm]	L1 [mm]	L2 [mm]	Rp [inch]	
SK 620	43	223	191	185	½	
SK 700	60	250	206	200	1	
SK 710	60	250	206	200	1	
SK 720	60	250	206	200	1	
SK 730	60	250	206	200	1	



Special version PVDF-HP Float in PTFE without magnet With fusion spigots BCF/IR

Type	d [mm]	DN [mm]	Scale range [l/h]	Scale range [gal/min]	Taper tube in Polysulfone O- rings in FPM Code	
SK 70	32	25	68 - 204	0.3-0.9	198 807 209	
SK 71	32	25	90 - 295	0.4-1.3	198 807 210	
SK 73	32	25	136 - 795	0.6-3.5	198 807 202	
SK 20	50	40	568 - 2273	2.5-10.0	198 807 203	
SK 21	50	40	909 - 4091	4.0-18.0	198 807 204	
SK 30	63	50	1000 - 8142	4.4-36.0	198 807 205	
SK 31	63	50	1000 - 9091	4.4-40.0	198 807 206	
SK 40	75	65	1848 - 11364	8.0-50.0	198 807 207	
SK 41	75	65	2273 - 16364	10.0-72.0	198 807 208	

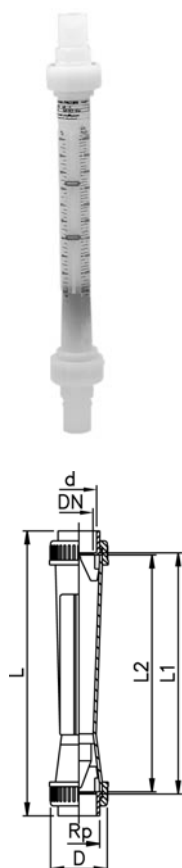


Type	D [mm]	L [mm]	L1 [mm]	L2 [mm]	Rp [inch]	
SK 70	60	318		200	1	
SK 71	60	318		200	1	
SK 73	60	318		200	1	
SK 20	83	466		335	1 ½	
SK 21	83	466		335	1 ½	
SK 30	103	472		335	2	
SK 31	103	472		335	2	
SK 40	122	495		335	2 ½	
SK 41	122	495		335	2 ½	

Variable area flow meters

Special version PVDF Float in PVDF (red) without magnet

Dimension L and L1 only valid for socket connection
Dimension L2 describes taper tube length



Type	d [mm]	DN [mm]	Scale range [l/h]	Taper tube in PVDF O-rings in FPM fusion sock- et Code	Taper tube in PVDF O-rings in FPM IR fusion spigot Code	
SK 10	32	25	50 - 500	198 806 466	198 803 905	
SK 11	32	25	100 - 1000	198 806 467	198 803 906	
SK 20	50	40	200 - 2000	198 806 468	198 803 907	
SK 21	50	40	300 - 3000	198 806 469	198 803 908	
SK 30	63	50	600 - 6000	198 806 470	198 803 909	
SK 31	63	50	1200 - 12000	198 806 471	198 803 910	
SK 40	75	65	2000 - 20000	-	198 803 911	
SK 41	75	65	3000 - 30000	-	198 803 912	

Type	D [mm]	L [mm]	L (IR-SS) [mm]	L1 [mm]	L2 [mm]	Rp [inch]	
SK 10	60	385	443	341	335	1	
SK 11	60	385	443	341	335	1	
SK 20	83	403	459	341	335	1 ½	
SK 21	83	403	459	341	335	1 ½	
SK 30	103	417	461	339	335	2	
SK 31	103	417	461	339	335	2	
SK 40	122	429	453	341	335	2 ½	
SK 41	122	429	453	341	335	2 ½	

Accessories 4-20 mA sensor For type 335 and type 350



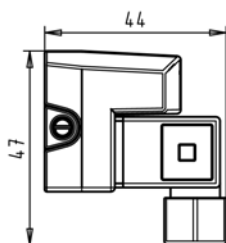
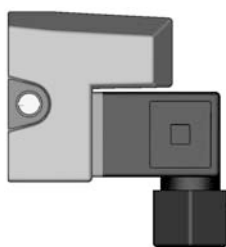
Type	d [mm]	DN [mm]	Corresponds to water scale [l/h]	Code	
GK 15	32	25	50-500	198 335 962	
GK 15	32	25	100-1000	198 335 963	
GK 15	40	32	150-1500	198 335 964	
GK 15	40	32	250-2500	198 335 965	
GK 15	50	40	200-2000	198 335 966	
GK 15	50	40	300-3000	198 335 967	
GK 15	50	40	600-6000	198 335 968	
GK 15	63	50	600-6000	198 335 969	
GK 15	63	50	1000-10000	198 335 991	
GK 15	63	50	1500-15000	198 335 992	
GK 15	75	65	2000-20000	198 335 993	
GK 15	75	65	3000-30000	198 335 994	
GK 15	75	65	8000-60000	198 335 995	

Variable area flow meters

Accessories

Limit contacts GK10/GK11

For type 335/350 and short version



Type	Code	
GK10 (min.)	198 335 960	
GK11 (max.)	198 335 961	

Special scale for type 335/350 % for H₂O

d [mm]	DN [mm]	Scale range	Corresponds to water scale [l/h]	Code	
32	25	10-100 %	50-500	198 335 084	
32	25	10-100 %	100-1000	198 335 083	
40	32	10-100 %	150-1500	198 335 069	
40	32	10-100 %	250-2500	198 335 068	
50	40	10-100 %	200-2000	198 335 054	
50	40	10-100 %	300-3000	198 335 053	
50	40	10-100 %	600-6000	198 335 039	
63	50	10-100 %	600-6000	198 335 038	
63	50	10-100 %	1000-10000	198 335 037	
63	50	10-100 %	1500-15000	198 335 036	
75	65	10-100 %	2000-20000	198 335 035	
75	65	10-100 %	3000-30000	198 335 034	
75	65	13.3-100 %	8000-60000	198 335 033	

Special scale for type 335/350 m³/h

d [mm]	DN [mm]	Scale range [m ³ /h]	Corresponds to wa- ter scale [l/h]	Code	
32	25	0.05 - 0.5	50 - 500	198 335 655	
32	25	0.1 - 1	100 - 1000	198 335 656	
40	32	0.15 - 1.5	150 - 1500	198 335 657	
40	32	0.25 - 2.5	250 - 2500	198 335 658	
50	40	0.2 - 2.0	200 - 2000	198 335 659	
50	40	0.3 - 3	300 - 3000	198 335 660	
50	40	0.6 - 6	600 - 6000	198 335 661	
63	50	0.6 - 6	600 - 6000	198 335 662	
63	50	1 - 10	1000 - 10000	198 335 663	
63	50	1.5 - 15	1500 - 15000	198 335 664	
75	65	2 - 20	2000 - 20000	198 335 665	
75	65	3 - 30	3000 - 30000	198 335 666	
75	65	8 - 60	8000 - 60000	198 335 667	

Variable area flow meters

Special scale for type 335/350

Imp. GPM

d [mm]	DN [mm]	Scale range [gal/min]	Corresponds to water scale [l/h]	Code	
32	25	0,183 - 1,83	50-500	198 335 670	
32	25	0,366 - 3,66	100-1000	198 335 671	
40	32	0,55 - 5,5	150-1500	198 335 672	
40	32	0,916 - 9,16	250-2500	198 335 673	
50	40	0,733 - 7,33	200-2000	198 335 674	
50	40	1,09 - 10,9	300-3000	198 335 675	
50	40	2,19 - 21,9	600-6000	198 335 676	
63	50	2,2 - 22	600-6000	198 335 677	
63	50	3,66 - 36,6	1000-10000	198 335 678	
63	50	5,49 - 54,9	1500-15000	198 335 679	
75	65	7,32 - 73,2	2000-20000	198 335 680	
75	65	10,98 - 109,8	3000-30000	198 335 681	
75	65	29,28 - 219,6	8000-60000	198 335 682	

Special scale for type 335/350

US GPM

d [mm]	DN [mm]	Scale range [gal/min]	Corresponds to wa- ter scale [l/h]	Code	
32	25	0.22 - 2.2	50 - 500	198 335 685	
32	25	0.44 - 4.4	100 - 1000	198 335 686	
40	32	0.66 - 6.6	150 - 1500	198 335 687	
40	32	1.1 - 11	250 - 2500	198 335 688	
50	40	0.66 - 6.6	200 - 2000	198 335 689	
50	40	1.32 - 13.2	300 - 3000	198 335 690	
50	40	2.64 - 26.4	600 - 6000	198 335 691	
63	50	2.64 - 26.4	600 - 6000	198 335 692	
63	50	4.40 - 44.02	1000 - 10000	198 335 693	
63	50	6.60 - 66.04	1500 - 15000	198 335 694	
75	65	8.80 - 88	2000 - 20000	198 335 695	
75	65	13.20 - 132	3000 - 30000	198 335 696	
75	65	35.2 - 264	8000 - 60000	198 335 697	

Special scale for type 335/350

Air/0bar/Nm3/h

d [mm]	DN [mm]	Scale range [m³/h]	Corresponds to wa- ter scale [l/h]	Code	
32	25	1.5 - 14	50 - 500	198 350 655	
32	25	2.5 - 29	100 - 1000	198 350 656	
40	32	4 - 45	150 - 1500	198 350 657	
40	32	7 - 79	250 - 2500	198 350 658	
50	40	6 - 58	200 - 2000	198 350 659	
50	40	9 - 108	300 - 3000	198 350 660	
50	40	17 - 174	600 - 6000	198 350 661	
63	50	17 - 175	600 - 6000	198 350 662	
63	50	29 - 301	1000 - 10000	198 350 663	
63	50	53 - 405	1500 - 15000	198 350 664	
75	65	55 - 545	2000 - 20000	198 350 665	
75	65	80 - 758	3000 - 30000	198 350 666	
75	65	-	8000 - 60000	198 350 667	

Variable area flow meters

Special scale for type 335/350

HCl 30-33% l/h

d [mm]	DN [mm]	Scale range [l/h]	Corresponds to water scale [l/h]	Code	
32	25	20 - 405	50-500	198 350 670	
32	25	55 - 866	100-1000	198 350 671	
40	32	90 - 1340	150-1500	198 350 672	
40	32	165 - 2310	250-2500	198 350 673	
50	40	115 - 1660	200-2000	198 350 674	
50	40	190 - 3050	300-3000	198 350 675	
50	40	420 - 4900	600-6000	198 350 676	
63	50	430 - 5090	600-6000	198 350 677	
63	50	750 - 9460	1000-10000	198 350 678	
63	50	1415 - 11570	1500-15000	198 350 679	
75	65	1500 - 17300	2000-20000	198 350 680	
75	65	2175 - 24120	3000-30000	198 350 681	
75	65	-	8000-60000	198 350 682	

Special scale for type 335/350

NaOH 30% l/h

d [mm]	DN [mm]	Scale range [l/h]	Corresponds to water scale [l/h]	Code	
32	25	4 - 226	50-500	198 350 685	
32	25	15 - 600	100-1000	198 350 686	
40	32	30 - 970	150-1500	198 350 687	
40	32	70 - 1800	250-2500	198 350 688	
50	40	35 - 1240	200-2000	198 350 689	
50	40	75 - 2370	300-3000	198 350 690	
50	40	230 - 4000	600-6000	198 350 691	
63	50	240 - 4700	600-6000	198 350 692	
63	50	475 - 7340	1000-10000	198 350 693	
63	50	1030 - 10330	1500-15000	198 350 694	
75	65	915 - 11720	2000-20000	198 350 695	
75	65	1195 - 16040	3000-30000	198 350 696	
75	65	-	8000-60000	198 350 697	

Special scale for type 335/350

NaOH 50% l/h

d [mm]	DN [mm]	Scale range [l/h]	Corresponds to water scale [l/h]	Code	
32	25	1 - 55	50-500	198 350 755	
32	25	3 - 192	100-1000	198 350 756	
40	32	6 - 365	150-1500	198 350 757	
40	32	15 - 770	250-2500	198 350 758	
50	40	8 - 520	200-2000	198 350 759	
50	40	15 - 1170	300-3000	198 350 760	
50	40	50 - 2270	600-6000	198 350 761	
63	50	55 - 2300	600-6000	198 350 762	
63	50	140 - 4340	1000-10000	198 350 763	
63	50	420 - 5820	1500-15000	198 350 764	
75	65	245 - 7590	2000-20000	198 350 765	
75	65	400 - 11120	3000-30000	198 350 766	
75	65	-	8000-60000	198 350 767	

Variable area flow meters

Special scale for short version Water l/h

Type	Scale range [l/h]	Code	
SK 50 / 500	2.5 - 25.0	198 801 386	
SK 51 / 510	5.0 - 50.0	198 801 387	
SK 52 / 520	10.0 - 100.0	198 801 388	
SK 60 / 600	8.0 - 80.0	198 801 389	
SK 61 / 610	15.0 - 150.0	198 801 390	
SK 62 / 620	20.0 - 200.0	198 801 391	
SK 70 / 700	15.0 - 150.0	198 801 392	
SK 71 / 710	30.0 - 300.0	198 801 393	
SK 72 / 720	50.0 - 500.0	198 801 394	
SK 73 / 730	100.0 - 1000.0	198 801 395	

Special scale for short version US GPM

Type	Scale range [gal/min]	Code	
SK 50 / 500	0,01 - 0,11	198 801 961	
SK 51 / 510	0,02 - 0,22	198 801 962	
SK 52 / 520	0,04 - 0,44	198 801 963	
SK 60 / 600	0,03 - 0,35	198 801 964	
SK 61 / 610	0,06 - 0,66	198 801 965	
SK 62 / 620	0,08 - 0,88	198 801 966	
SK 70 / 700	0,06 - 0,66	198 801 967	
SK 71 / 710	0,13 - 1,32	198 801 968	
SK 72 / 720	0,22 - 2,20	198 801 969	
SK 73 / 730	0,44 - 4,40	198 801 970	

Special scale for short version Air/0bar/Nm3/h

Type	Scale range [m³/h]	Code	
SK 50 / 500	0,5 - 0,95	198 801 308	
SK 51 / 510	0,5 - 1,9	198 801 309	
SK 52 / 520	0,8 - 3,0	198 801 310	
SK 60 / 600	0,6 - 2,8	198 801 311	
SK 61 / 610	1,4 - 5,6	198 801 312	
SK 62 / 620	1,5 - 7,0	198 801 313	
SK 70 / 700	1,0 - 6,5	198 801 314	
SK 71 / 710	1,5 - 11,0	198 801 315	
SK 72 / 720	3,0 - 18,0	198 801 316	
SK 73 / 730	6,0 - 30,0	198 801 317	

Special scale for short version HCl 30 - 33% l/h

Type	Scale range [l/h]	Code	
SK 50 / 500	2,5 - 20	198 806 511	
SK 51 / 510	5 - 40	198 806 512	
SK 52 / 520	10 - 85	198 806 513	
SK 60 / 600	8 - 70	198 806 514	
SK 61 / 610	15 - 125	198 806 515	
SK 62 / 620	20 - 170	198 806 516	
SK 70 / 700	5 - 125	198 806 517	

table continued next page

Variable area flow meters

Type	Scale range [l/h]	Code	
SK 71 / 710	30 - 260	198 806 518	
SK 72 / 720	50 - 425	198 806 519	
SK 73 / 730	100 - 850	198 806 520	

Special scale for short version NaOH 30% l/h

Type	Scale range [l/h]	Code	
SK 50 / 500	0.2 - 5	198 806 521	
SK 51 / 510	1 - 14	198 806 522	
SK 52 / 520	3 - 35	198 806 523	
SK 60 / 600	2 - 23	198 806 524	
SK 61 / 610	3 - 55	198 806 525	
SK 62 / 620	5 - 80	198 806 526	
SK 70 / 700	3 - 55	198 806 527	
SK 71 / 710	6 - 130	198 806 528	
SK 72 / 720	10 - 250	198 806 529	
SK 73 / 730	40 - 590	198 806 530	

Special scale for short version NaOH 50% l/h

Type	Scale range [l/h]	Code	
SK 60 / 600	0,2 - 3,5	198 806 531	
SK 61 / 610	0,5 - 10	198 806 532	
SK 62 / 620	0,5 - 16	198 806 533	
SK 70 / 700	0,5 - 11	198 806 534	
SK 71 / 710	1 - 33	198 806 535	
SK 72 / 720	2 - 80	198 806 536	
SK 73 / 730	10 - 220	198 806 537	

Overall products

		Page
	Electrical feedback module (I33)	596
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	Valve ends ball valve type 546 and 543	602
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	Mounting inserts	625
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Overall products

Electrical feedback module (I33)

With limit switches Ag Ni or AU

**Model:**

- Accessory to hand operated diaphragm valve 514 - 519
- No height increase
- Easy, fast and safe installation
- Self adjusting mechanism
- Including Plug 3P+E / Protection: IP65

d-d [mm]	DN-DN [mm]	Size	Ag Ni Code	AU Code	
10 - 25	10 - 20	1	198 151 335	198 151 336	
32 - 40	25 - 32	2	198 151 337	198 151 338	
50 - 63	40 - 50	3	198 151 339	198 151 340	

Overall products

Multifunctional modules

Multifunctional module (I02) PP-GF Module empty

Model:

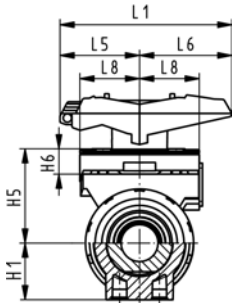
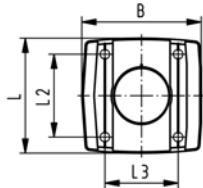
- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- The multifunctional module from d75 - d110 has a master gauge F07 according to EN ISO 5211.

d-d [mm]	Inch [inch]	DN-DN [mm]	Code
16 - 20	¾ - ½	10 - 15	167 482 680
25 - 32	¾ - 1	20 - 25	167 482 681
40 - 50	1 ¼ - 1 ½	32 - 40	167 482 682
- 63	2	- 50	167 482 683
75 - 90	2 ½ - 3	65 - 80	167 482 684
- 110	4	- 100	167 482 685

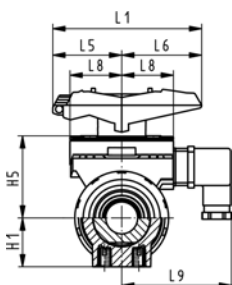
d-d [mm]	B [mm]	H1 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L5 [mm]	L6 [mm]	L8 [mm]
16 - 20	67	27	50	17	72	87	54	40	42	45	34
25 - 32	75	30	53	16	72	108	52	46	50	58	38
40 - 50	81	44	72	16	80	140	60	50	66	75	41
- 63	91	64	94	19	93	165	68	65	78	87	46
75 - 90	90	85	157	23	85	270			64	206	
- 110	106	123	175	23	97	320			64	256	



DN10/15 - 50



DN10/15 - 50



Multifunctional module (I03) PP-GF With mechanical limit switches Ag Ni

Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100

d-d [mm]	Inch [inch]	DN-DN [mm]	Code	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]
16 - 20	¾ - ½	10 - 15	167 482 626	27	50	87	42	45	34	73
25 - 32	¾ - 1	20 - 25	167 482 627	30	53	108	50	58	38	77
40 - 50	1 ¼ - 1 ½	32 - 40	167 482 628	44	72	140	66	75	41	80
- 63	2	- 50	167 482 629	64	94	165	78	87	46	85
75 - 90	2 ½ - 3	65 - 80	167 482 630	85	157	270	64	206		
- 110	4	- 100	167 482 631	123	175	320	64	256		

Overall products

Multifunctional module (I04) PP-GF With mechanical limit switches Au

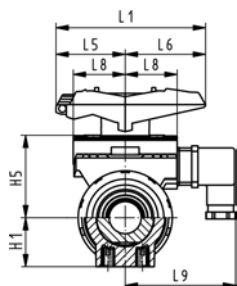
Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100

d-d [mm]	Inch [inch]	DN-DN [mm]	Code	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]	
16 - 20	3/8 - 1/2	10 - 15	167 482 635	27	50	87	42	45	34	73	
25 - 32	3/4 - 1	20 - 25	167 482 636	30	53	108	50	58	38	77	
40 - 50	1 1/4 - 1 1/2	32 - 40	167 482 637	44	72	140	66	75	41	80	
- 63	2	- 50	167 482 638	64	94	165	78	87	46	85	
75 - 90	2 1/2 - 3	65 - 80	167 482 639	85	157	270	64	206			
- 110	4	- 100	167 482 640	123	175	320	64	256			



DN10/15 - 50



Multifunctional module (I05) PP-GF With inductive limit switches Namur

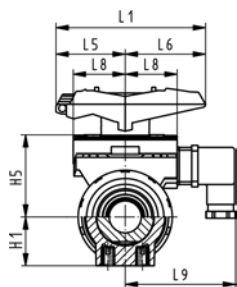
Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100

d-d [mm]	Inch [inch]	DN-DN [mm]	Code	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]	
16 - 20	3/8 - 1/2	10 - 15	167 482 671	27	50	87	42	45	34	73	
25 - 32	3/4 - 1	20 - 25	167 482 672	30	53	108	50	58	38	77	
40 - 50	1 1/4 - 1 1/2	32 - 40	167 482 673	44	72	140	66	75	41	80	
- 63	2	- 50	167 482 674	64	94	165	78	87	46	85	
75 - 90	2 1/2 - 3	65 - 80	167 482 675	85	157	270	64	206			
- 110	4	- 100	167 482 676	123	175	320	64	256			



DN10/15 - 50



Overall products

Multifunctional module (I06) PP-GF With inductive limit switches PNP

Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100



d-d [mm]	Inch [inch]	DN-DN [mm]	Code	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]	
16 - 20	3/8 - 1/2	10 - 15	167 482 662	27	50	87	42	45	34	73	
25 - 32	3/4 - 1	20 - 25	167 482 663	30	53	108	50	58	38	77	
40 - 50	1 1/4 - 1 1/2	32 - 40	167 482 664	44	72	140	66	75	41	80	
- 63	2	- 50	167 482 665	64	94	165	78	87	46	85	
75 - 90	2 1/2 - 3	65 - 80	167 482 666	85	157	270	64	206			
- 110	4	- 100	167 482 667	123	175	320	64	256			

Multifunctional module (I07) PP-GF With inductive limit switches NPN

Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- For operation with handle, multifunctional handle has to be ordered separately.
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100



d-d [mm]	Inch [inch]	DN-DN [mm]	Code	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]	
16 - 20	3/8 - 1/2	10 - 15	167 482 653	27	50	87	42	45	34	73	
25 - 32	3/4 - 1	20 - 25	167 482 654	30	53	108	50	58	38	77	
40 - 50	1 1/4 - 1 1/2	32 - 40	167 482 655	44	72	140	66	75	41	80	
- 63	2	- 50	167 482 656	64	94	165	78	87	46	85	
75 - 90	2 1/2 - 3	65 - 80	167 482 657	85	157	270	64	206			
- 110	4	- 100	167 482 658	123	175	320	64	256			

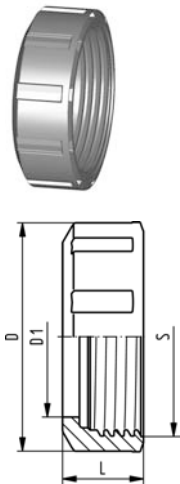
Overall products

Union nuts

PROGEF Standard Union nut 546 and 543

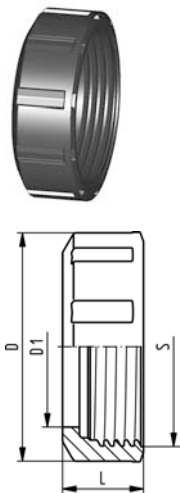
Model:

- Material: PP-H



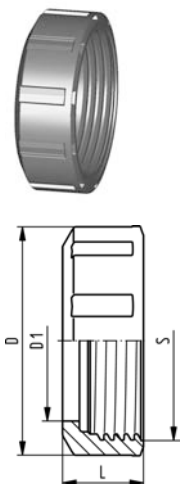
d [mm]	DN [mm]	Code	D [mm]	D1 [mm]	L [mm]	S [mm]	
16 - 20	10 - 15	167 482 712	50	34	19	42	
25	20	167 482 713	58	39	20	48	
32	25	167 482 714	68	47	24	58	
40	32	167 482 715	84	57	27	71	
50	40	167 482 716	97	65	30	84	
63	50	167 482 717	124	79	36	106	
75	65	167 482 718	166	94	48	135	
90	80	167 482 719	200	113	54	135	
110	100	167 482 720	238	137	60	198	

Union nut 546 and 543 PVC-U



d [mm]	DN [mm]	Code	D [mm]	D1 [mm]	L [mm]	S [mm]	
16 - 20	10 - 15	161 490 538	50	34	19	42	
25	20	161 490 539	58	39	20	48	
32	25	161 490 540	68	47	24	58	
40	32	161 490 541	84	57	27	71	
50	40	161 490 542	97	65	30	84	
63	50	161 490 543	124	79	36	106	
75	65	161 490 544	166	94	48	135	
90	80	161 490 545	200	113	54	135	
110	100	161 490 546	238	137	60	198	

Union nut 546 and 543 ABS



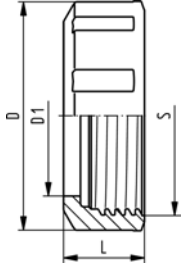
d [mm]	DN [mm]	Code	D [mm]	D1 [mm]	L [mm]	S [mm]	
16 - 20	10 - 15	169 480 713	50	34	19	42	
25	20	169 480 714	58	39	20	48	
32	25	169 480 715	68	47	24	58	
40	32	169 480 716	84	57	27	71	
50	40	169 480 717	97	65	30	84	
63	50	169 480 718	124	79	36	106	
75	65	169 480 719	166	94	48	135	
90	80	169 480 720	200	113	54	135	
110	100	169 480 721	238	137	60	198	

Overall products

SYGEF Standard Union nut 546 and 543

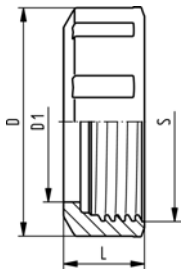
Model:

- Material: PVDF



d [mm]	DN [mm]	Code	D [mm]	D1 [mm]	L [mm]	S [mm]	
16 - 20	10 - 15	175 482 937	50	34	19	42	
25	20	175 482 938	58	39	20	48	
32	25	175 482 939	68	47	24	58	
40	32	175 482 940	84	57	27	71	
50	40	175 482 941	94	65	30	84	
63	50	175 482 942	120	79	36	106	

Union nut 546 and 543 PVC-C

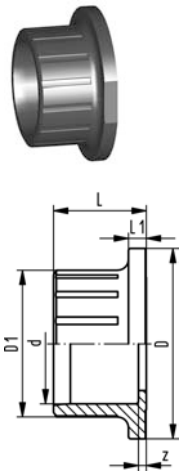


d [mm]	DN [mm]	Code	D [mm]	D1 [mm]	L [mm]	S [mm]	
16 - 20	10 - 15	163 481 226	50	34	19	42	
25	20	163 481 227	58	39	20	48	
32	25	163 481 228	68	47	24	58	
40	32	163 481 229	84	57	27	71	
50	40	163 481 230	97	65	30	84	
63	50	163 481 231	124	79	36	106	
75	65	163 481 232	166	94	48	135	
90	80	163 481 233	200	113	54	135	
110	100	163 481 234	238	137	60	198	

Overall products

Valve ends ball valve type 546 and 543

Valve end 546 and 543 PVC-U (G01) With solvent cement socket metric

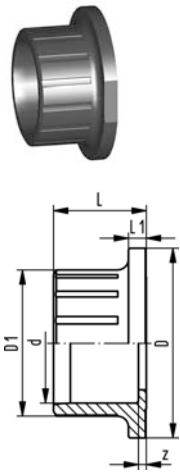


d [mm]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
16	16	161 490 666	38	23	18	4	4	
20	16	161 490 667	38	27	20	4	4	
25	16	161 490 668	44	33	23	5	4	
32	16	161 490 669	53	41	26	5	4	
40	16	161 490 670	65	51	31	5	5	
50	16	161 490 671	77	62	34	6	3	
63	16	161 490 672	99	77	41	7	3	
75	16	161 490 673	125	92	49	9	4	
90	16	161 490 674	150	110	57	10	5	
110	16	161 490 675	180	134	69	11	5	

Valve end 546 PVC-U With solvent cement socket metric

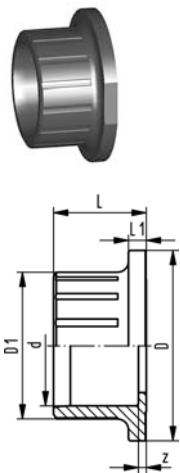
Model:

- Valve end 546 PVC-U to retrofit the ball valve 546 according the same z-dimension as for type 370 with nuts



d [mm]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
75	16	161 490 673	125	92	49	9	4	
90	16	161 491 084	150	110	64	10	12	
110	16	161 491 085	180	134	80	11	16	

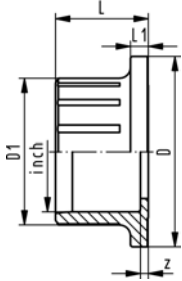
Valve end 546 PVC-U (G02) With solvent cement socket JIS



Inch	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
½	16	161 490 745	38	27	20	4	4	
¾	16	161 490 746	44	33	23	5	4	
1	16	161 490 747	53	41	26	5	4	
1 ¼	16	161 490 748	65	51	31	5	5	
1 ½	16	161 490 749	77	62	34	6	3	
2	16	161 490 750	99	77	41	7	3	
2 ½	16	161 490 751	125	92	49	9	4	
3	16	161 490 752	150	110	57	10	5	
4	16	161 490 753	180	134	69	11	5	

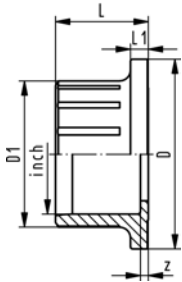
Overall products

Valve end 546 and 543 PVC-U (G03) With solvent cement socket Inch ASTM



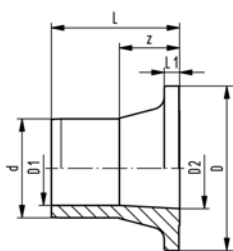
Inch	d [mm]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
3/8	16	16	161 490 712	38	24	25	4	6	
1/2	20	16	161 490 713	38	30	25	4	2	
3/4	25	16	161 490 714	44	35	28	5	3	
1	32	16	161 490 715	53	43	31	5	3	
1 1/4	40	16	161 490 716	65	53	34	5	3	
1 1/2	50	16	161 490 717	77	60	38	6	3	
2	63	16	161 490 718	99	73	41	7	3	
2 1/2	75	16	161 490 719	125	92	49	9	4	
3	90	16	161 490 720	150	110	57	10	9	
4	110	16	161 490 721	180	134	69	11	11	

Valve end 546 and 543 PVC-U (G04) With solvent cement socket Inch BS



Inch	d [mm]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
3/8	16	16	161 490 734	38	23	18	4	2	
1/2	20	16	161 490 735	38	27	20	4	2	
3/4	25	16	161 490 736	44	33	23	5	2	
1	32	16	161 490 737	53	41	26	5	2	
1 1/4	40	16	161 490 738	65	51	31	5	2	
1 1/2	50	16	161 490 739	77	62	34	6	4	
2	63	16	161 490 740	99	77	41	7	5	
	75	16	161 490 673	125	92	49	9	4	
3	90	16	161 490 742	150	110	57	10	6	
4	110	16	161 490 743	180	134	69	11	5	

Valve end 546 and 543 PVC-U (G05) With solvent cement spigot metric



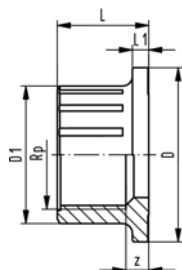
d [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	z [mm]	
16	16	161 490 701	38	10	16	29	4	15	
20	16	161 490 702	38	14	16	34	4	18	
25	16	161 490 703	44	19	20	39	5	20	
32	16	161 490 704	53	24	26	42	5	20	
40	16	161 490 705	65	31	33	45	5	19	
50	16	161 490 706	77	39	41	53	6	22	
63	16	161 490 707	99	49	51	62	7	24	
75	16	161 490 708	125	58	65	74	9	30	
90	16	161 490 709	150	70	90	80	10	28	
110	16	161 490 710	180	86	100	88	11	27	

Overall products

Valve end 546 and 543 PVC-U (G06) With threaded socket Rp

Model:

- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

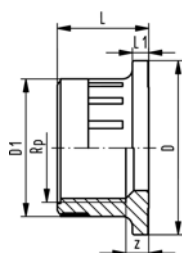


Rp [inch]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
3/8	10	161 490 690	38	24	20	4	7
1/2	10	161 490 691	38	28	22	4	6
3/4	10	161 490 692	44	34	25	5	7
1	10	161 490 693	53	42	28	5	7
1 1/4	10	161 490 694	65	52	30	5	7
1 1/2	10	161 490 695	77	63	32	6	9
2	10	161 490 696	99	78	38	7	10
2 1/2	10	161 490 697	125	58	49	9	18
3	10	161 490 698	150	110	57	10	23
4	10	161 490 699	180	134	69	11	29

Valve end 546 and 543 PVC-U (G07) With threaded socket Rp reinforced

Model:

- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PVC-U

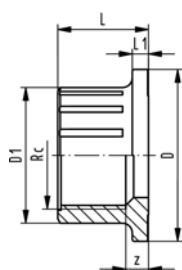


Rp [inch]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
3/8	16	161 490 825	38	24	20	4	7
1/2	16	161 490 826	38	28	22	4	6
3/4	16	161 490 827	44	34	25	5	7
1	16	161 490 828	53	42	28	5	7
1 1/4	16	161 490 829	65	52	30	5	7
1 1/2	16	161 490 830	77	63	32	6	9
2	16	161 490 831	99	78	38	7	10

Valve end 546 and 543 PVC-U (G08) With threaded socket Rc

Model:

- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U



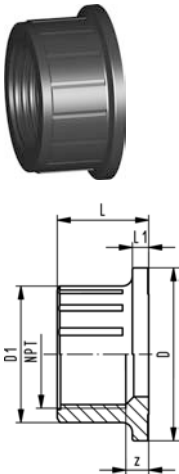
Rc [inch]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
1/2	10	161 490 755	38	28	22	4	5
3/4	10	161 490 756	44	34	25	5	7
1	10	161 490 757	53	42	28	5	7
1 1/4	10	161 490 758	65	52	30	5	6
1 1/2	10	161 490 759	77	63	32	6	8
2	10	161 490 760	99	78	38	7	9
2 1/2	10	161 490 761	125	58	49	9	18
3	10	161 490 762	150	110	57	10	23
4	10	161 490 763	180	134	69	11	29

Overall products

Valve end 546 and 543 PVC-U (G09) With threaded socket NPT

Model:

- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-U

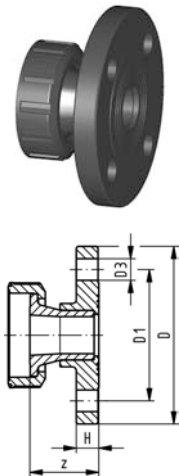


NPT [inch]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
3/8	10	161 490 723	38	26	21	4	7	
1/2	10	161 490 724	38	33	21	4	4	
3/4	10	161 490 725	44	39	23	5	5	
1	10	161 490 726	53	47	28	5	6	
1 1/4	10	161 490 727	65	57	31	5	7	
1 1/2	10	161 490 728	77	65	34	6	11	
2	10	161 490 729	99	77	41	7	17	
2 1/2	10	161 490 730	125	58	49	9	15	
3	10	161 490 731	150	110	57	10	21	
4	10	161 490 732	180	134	69	11	31	

Valve end 546 PVC-U (G60) Assembly with fixed flange PVC-U metric

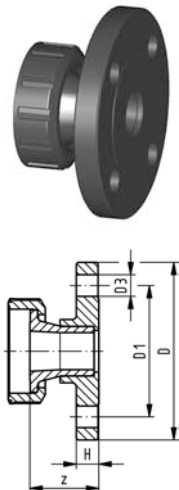
Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504
- Combined jointing face: flat and serrated



d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	z [mm]	
20	15	16	161 486 360	95	65	14	12	37	
25	20	16	161 486 361	105	75	14	13	42	
32	25	16	161 486 362	115	85	14	15	45	
40	32	16	161 486 363	140	100	18	17	48	
50	40	16	161 486 364	150	110	18	18	56	
63	50	16	161 486 365	165	125	18	20	65	

Valve end 546 PVC-U (G62) Assembly with fixed flange flat PVC-U Inch JIS



Inch	DN [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	z [mm]	
1/2	15	16	161 486 350	95	60	14	11	37.0	
3/4	20	16	161 486 351	105	70	14	12	42.0	
1	25	16	161 486 352	115	79	14	14	45.0	
1 1/4	32	16	161 486 353	140	89	18	15	48.0	
1 1/2	40	16	161 486 354	140	105	18	18	61.5	
2	50	16	161 486 355	165	121	18	18	65.0	

Overall products

Valve end 546 PVC-U (G70)

Assembly with backing flange PVC-U metric

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]
20	15	16	161 486 265	95	65	14	11	6	37
25	20	16	161 486 266	105	75	14	12	7	42
32	25	16	161 486 267	115	85	14	14	7	45
40	32	16	161 486 268	140	100	18	15	8	48
50	40	16	161 486 269	150	110	18	16	8	56
63	50	16	161 486 270	165	125	18	18	9	65
75	65	10	161 486 271	185	145	18	19	10	77
90	80	10	161 486 272	200	160	18	20	11	85
110	100	10	161 486 273	220	180	18	22	12	93

Valve end 546 PVC-U (G71)

Assembly with backing flange PVC-U Inch ANSI

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ANSI/ASME B 16.5, ASTM D 4024, BS 1560 (bolt circle 150 lbs)

Inch	d [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]
½	20	16	161 486 275	95	60	14	11	6	37
¾	25	16	161 486 276	105	70	14	12	7	42
1	32	16	161 486 277	115	79	14	14	7	45
1 ¼	40	16	161 486 278	140	89	18	15	8	48
1 ½	50	16	161 486 279	150	98	18	16	8	56
2	63	16	161 486 280	165	121	18	18	9	65
2 ½	75	10	161 486 281	185	140	19	19	10	77
3	90	10	161 486 282	200	152	19	20	11	85
4	110	10	161 486 283	220	190	19	22	12	93

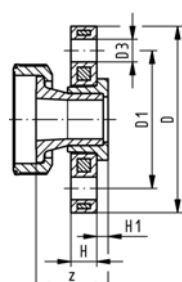
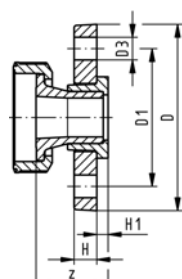
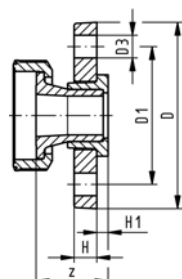
Valve end 546 PVC-U (G72)

Assembly with backing flange PP-st metric

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504

d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]
20	15	16	161 486 285	95	65	14	12	6	37
25	20	16	161 486 286	105	75	14	12	7	42
32	25	16	161 486 287	115	85	14	16	7	45
40	32	16	161 486 288	140	100	18	16	8	48
50	40	16	161 486 289	150	110	18	18	8	56
63	50	16	161 486 290	165	125	18	18	9	65
75	65	16	161 486 291	185	145	18	18	10	77
90	80	16	161 486 292	200	160	18	20	11	85
110	100	16	161 486 293	220	180	18	20	12	93

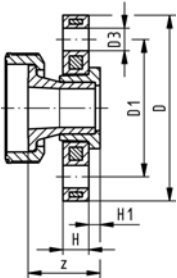


Overall products

Valve end 546 PVC-U (G73) Assembly with backing flange PP-st inch

Model:

- Joint made with special adhesive Tangit for PVC-U
- Connecting dimensions: ANSI/ASME B 16.5, ASTM D 4024, BS 1560 (bolt circle 150 lbs)

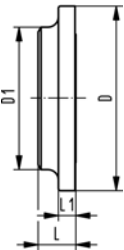


Inch	DN [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	
1/2	15	16	161 486 425	95	60	16	12	6	37	
3/4	20	16	161 486 426	105	70	16	12	7	42	
1	25	16	161 486 427	115	79	16	16	7	45	
1 1/4	32	16	161 486 428	140	89	16	16	8	48	
1 1/2	40	16	161 486 429	150	98	16	18	8	56	
2	50	16	161 486 430	165	121	19	18	9	65	
2 1/2	65	16	161 486 431	185	140	19	18	10	77	
3	80	16	161 486 432	200	152	19	20	11	85	
4	100	16	161 486 433	229	190	19	20	12	93	

Valve end blank 546 and 543 PVC-U (G80)

Model:

- Flat sealing faces

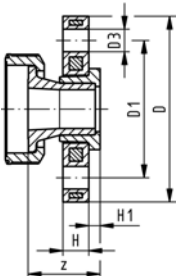


d [mm]	DN [mm]	Inch	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	
20	15	1/2	16	161 490 837	38	23	8	4	
25	20	3/4	16	161 490 838	44	33	10	5	
32	25	1	16	161 490 839	53	41	11	5	
40	32	1 1/4	16	161 490 840	65	51	11	5	
50	40	1 1/2	16	161 490 841	77	62	14	6	
63	50	2	16	161 490 842	99	77	17	7	

Valve end 546 PVC-U (G78) Assembly with backing flange PVC-U JIS

Model:

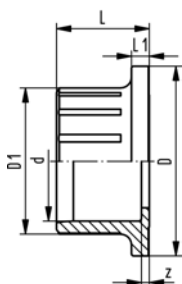
- Overall length according to EN 558
- Connecting dimensions: JIS B 2220, 10K



Inch	DN [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	
2 1/2	65	10	161 486 201	185	140	19	21	1.5	63	
3	80	10	161 486 202	185	150	19	31	1.0	82	
4	100	10	161 486 203	210	175	19	34	1.0	105	

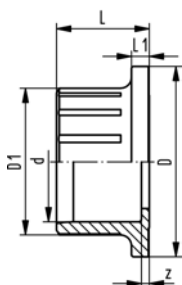
Overall products

Valve end 546 and 543 PVC-C (G11) With solvent cement socket metric



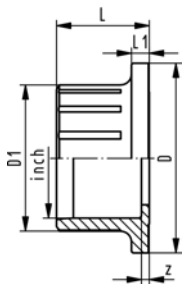
d [mm]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
16	16	163 481 275	38	23	18	4	4	
20	16	163 481 276	38	27	20	4	4	
25	16	163 481 277	44	33	23	5	4	
32	16	163 481 278	53	41	26	5	4	
40	16	163 481 279	65	51	31	5	5	
50	16	163 481 280	77	62	34	6	3	
63	16	163 481 281	99	77	41	7	3	
75	16	163 481 282	125	92	49	9	4	
90	16	163 481 283	150	110	57	10	5	
110	16	163 481 284	180	134	69	11	5	

Valve end 546 PVC-C (G12) With solvent cement socket JIS



Inch	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	z [mm]	
½	15	16	163 481 333	38	27	16	20	4	4	
¾	20	16	163 481 334	44	33	20	23	4	4	
1	25	16	163 481 335	53	41	26	26	5	4	
1 ¼	32	16	163 481 336	65	51	33	30	4	4	
1 ½	40	16	163 481 337	77	62	41	34	6	3	
2	50	16	163 481 338	99	77	51	41	6	3	
2 ½	65	16	163 481 339	125	92	65	49	9	4	
3	80	16	163 481 340	150	110	82	57	10	5	
4	100	16	163 481 341	180	134	100	69	11	5	

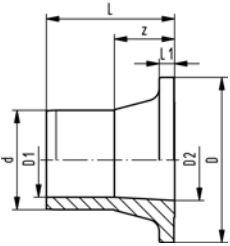
Valve end 546 and 543 PVC-C (G13) With solvent cement socket Inch ASTM



Inch	d [mm]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
¾	16	16	163 481 311	38	24	25	4	6	
½	20	16	163 481 312	38	30	25	4	2	
¾	25	16	163 481 313	44	35	28	5	3	
1	32	16	163 481 314	53	43	31	5	3	
1 ¼	40	16	163 481 315	65	53	34	5	3	
1 ½	50	16	163 481 316	77	60	38	6	3	
2	63	16	163 481 317	99	73	41	7	3	
2 ½	75	16	163 481 318	125	92	49	9	4	
3	90	16	163 481 319	150	110	57	10	8	
4	110	16	163 481 320	180	134	69	11	11	

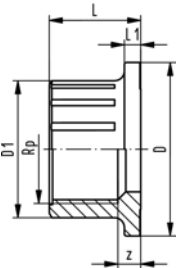
Overall products

Valve end 546 and 543 PVC-C (G14) With solvent cement spigot metric



d [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	z [mm]
16	16	163 481 300	38	10	16	29	4	15
20	16	163 481 301	38	14	16	34	4	18
25	16	163 481 302	44	19	20	39	5	20
32	16	163 481 303	53	24	26	42	5	20
40	16	163 481 304	65	31	33	45	5	19
50	16	163 481 305	77	39	41	53	6	22
63	16	163 481 306	99	49	51	62	7	24
75	16	163 481 307	125	58	65	74	9	30
90	16	163 481 308	150	70	90	80	10	28
110	16	163 481 309	180	86	100	88	11	27

Valve end 546 and 543 PVC-C (G15) With threaded socket Rp

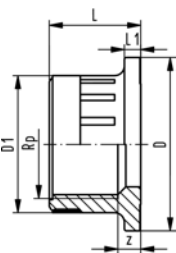


Model:

- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-C

Rp [inch]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
3/8	10	163 481 286	38	24	20	4	7
1/2	10	163 481 287	38	28	22	4	6
3/4	10	163 481 288	44	34	25	5	7
1	10	163 481 289	53	42	28	5	7
1 1/4	10	163 481 290	65	52	30	5	7
1 1/2	10	163 481 291	77	63	32	6	9
2	10	163 481 292	99	78	38	7	10
2 1/2	10	163 481 293	125	58	49	9	19
3	10	163 481 294	150	110	57	10	23
4	10	163 481 295	180	134	69	11	29

Valve end 546 and 543 PVC-C (G16) With threaded socket Rp reinforced



Model:

- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PVC-C

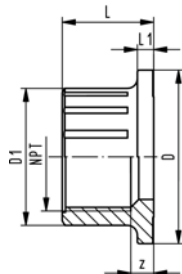
Rp [inch]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
3/8	16	163 481 400	38	24	20	4	7
1/2	16	163 481 401	38	28	22	4	6
3/4	16	163 481 402	44	34	25	5	7
1	16	163 481 403	53	42	28	5	7
1 1/4	16	163 481 404	65	52	30	5	7
1 1/2	16	163 481 405	77	63	32	6	9
2	16	163 481 406	99	78	38	7	10

Overall products

Valve end 546 and 543 PVC-C (G17) With threaded socket NPT

Model:

- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVC-C



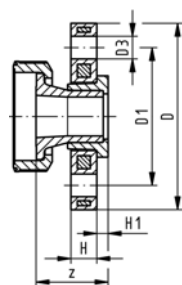
NPT [inch]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
3/4	10	163 481 322	38	26	21	4	7	
1/2	10	163 481 323	38	33	21	4	4	
3/4	10	163 481 324	44	39	23	5	5	
1	10	163 481 325	53	47	28	5	6	
1 1/4	10	163 481 326	65	57	31	5	7	
1 1/2	10	163 481 327	77	65	34	6	11	
2	10	163 481 328	99	77	41	7	17	
2 1/2	10	163 481 329	125	58	49	9	15	
3	10	163 481 330	150	110	57	10	21	
4	10	163 481 331	180	134	69	11	31	

Valve end 546 PVC-C (G72)

Assembly with backing flange PP-St metric

Model:

- Joint made with special adhesive Tangit for PVC-C
- Connecting dimensions: ISO 7005 / EN 1092 / DIN 2501 PN10 / BS4504



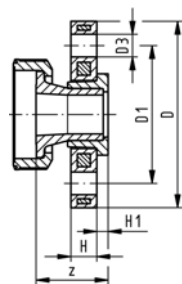
d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	
20	15	16	163 481 412	95	65	14	12	6	37	
25	20	16	163 481 413	105	75	14	12	7	42	
32	25	16	163 481 414	115	85	14	16	7	45	
40	32	16	163 481 415	140	100	18	16	8	48	
50	40	16	163 481 416	150	110	18	18	8	56	
63	50	16	163 481 417	165	125	18	18	9	65	
75	65	16	163 481 418	185	145	18	18	10	77	
90	80	16	163 481 419	200	160	18	20	11	85	
110	100	16	163 481 420	220	180	18	20	12	93	

Valve end 546 PVC-C (G73)

Assembly with backing flange PP-St Inch ANSI

Model:

- Joint made with special adhesive Tangit for PVC-C
- Connecting dimensions: ANSI/ASME B 16.5, ASTM D 4024, BS 1560 (bolt circle 150 lbs)



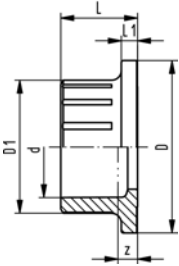
Inch	DN [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	
1/2	15	16	163 481 425	95	60	16	12	6	37	
3/4	20	16	163 481 426	105	70	16	12	7	42	
1	25	16	163 481 427	115	79	16	16	7	45	
1 1/4	32	16	163 481 428	140	89	16	16	8	47	
1 1/2	40	16	163 481 429	150	98	16	18	8	56	
2	50	16	163 481 430	165	121	19	18	9	65	
2 1/2	65	16	163 481 431	185	140	19	18	10	77	
3	80	16	163 481 432	200	152	19	20	11	85	
4	100	16	163 481 433	229	190	19	20	12	93	

Overall products

PROGEF Standard Valve end 546 and 543 (G30) With fusion socket metric

Model:

- Material: PP-H

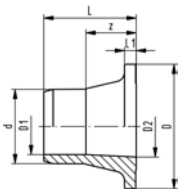


d [mm]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
16	10	167 482 900	38	23	19	4	5	
20	10	167 482 901	38	27	20	4	5	
25	10	167 482 902	44	33	22	5	6	
32	10	167 482 903	53	41	24	5	6	
40	10	167 482 904	65	51	26	5	7	
50	10	167 482 905	77	62	29	6	8	
63	10	167 482 906	99	77	34	7	6	
75	10	167 482 907	125	92	49	9	20	
90	10	167 482 908	150	110	57	10	24	
110	10	167 482 909	180	134	69	11	30	

PROGEF Standard Valve end 546 and 543 (G32) With socket fusion spigot metric

Model:

- Material: PP-H

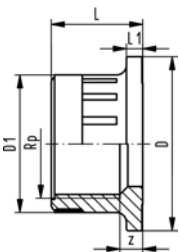


d [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	
16	10	167 482 922	38	10	16	27	4	13	14	
20	10	167 482 923	38	14	16	32	4	14	18	
25	10	167 482 924	44	19	20	37	5	16	21	
32	10	167 482 925	53	24	26	40	5	18	22	
40	10	167 482 926	65	31	33	43	5	20	23	
50	10	167 482 927	77	39	41	51	6	23	28	
63	10	167 482 928	99	49	51	60	7	27	33	
75	10	167 482 929	125	58	65	72	9	48	24	
90	10	167 482 930	150	70	90	78	10	48	29	
110	10	167 482 931	180	86	100	86	11	54	32	

PROGEF Standard Valve end 546 and 543 (G33) With threaded socket Rp reinforced

Model:

- Material: PP-H
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PP



Rp [inch]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
3/8	16	167 482 911	38	24	20	4	7	
1/2	16	167 482 912	38	28	21	4	6	
3/4	16	167 482 913	44	34	23	5	7	
1	16	167 482 914	53	42	28	5	7	
1 1/4	16	167 482 915	65	52	31	5	7	
1 1/2	16	167 482 916	77	63	34	6	9	
2	16	167 482 917	99	78	41	7	10	

Overall products

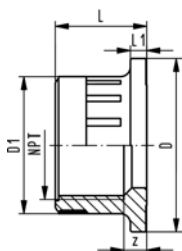
PROGEF Standard

Valve end 546 and 543 (G34)

With threaded socket NPT reinforced

Model:

- Material: PP-H
- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to PP



NPT [inch]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
3/8	16	167 482 966	38	26	20	4	7	
1/2	16	167 482 967	38	33	21	4	4	
3/4	16	167 482 968	44	39	23	5	5	
1	16	167 482 969	53	47	28	5	6	
1 1/4	16	167 482 970	65	57	31	5	7	
1 1/2	16	167 482 971	77	65	34	6	11	
2	16	167 482 972	99	77	41	7	17	

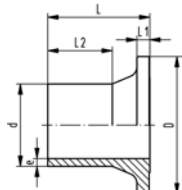
PROGEF Standard

Valve end 546 and 543 (G35)

With butt fusion spigot IR-Plus® SDR11 metric

Model:

- Material: PP-H



d [mm]	FM	PN	Code	D [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	
20	IR	10	167 482 945	38	1,9	37	4	25	
25	IR	10	167 482 946	44	2,3	39	5	25	
32	IR	10	167 482 947	53	2,9	40	5	25	
40	IR	10	167 482 948	65	3,7	43	5	25	
50	IR	10	167 482 949	77	4,6	51	6	25	
63	IR	10	167 482 950	99	5,8	60	7	28	
75	IR	10	167 482 951	125	6,8	65	9	41	
90	IR	10	167 482 952	150	8,2	62	10	33	
110	IR	10	167 482 953	180	10,0	69	11	37	

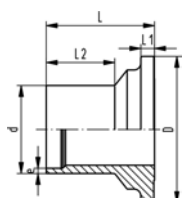
PROGEF Standard

Valve end 546 and 543 (G36)

With butt fusion spigot IR-Plus® SDR17,6 metric

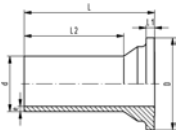
Model:

- Material: PP-H



d [mm]	FM	PN	Code	D [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	
40	IR	6	167 482 937	65	2,3	43	5	25	
50	IR	6	167 482 938	77	2,9	51	6	25	
63	IR	6	167 482 939	99	3,6	60	7	28	
75	IR	6	167 482 940	125	4,3	65	9	41	
90	IR	6	167 482 941	150	5,1	62	10	33	
110	IR	6	167 482 942	180	6,3	69	11	37	

Overall products



PROGEF Standard

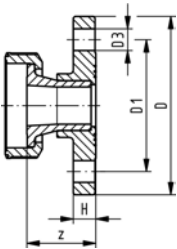
Valve end 546 and 543 (G37)

With butt fusion spigot long SDR11 metric

Model:

- Material: PP-H

d [mm]	PN	Code	D [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	
20	10	167 482 956	38	2,3	69	4	53	
25	10	167 482 957	44	2,3	76	5	58	
32	10	167 482 958	53	2,9	76	5	58	
40	10	167 482 959	65	3,7	82	5	61	
50	10	167 482 960	77	4,6	91	6	63	
63	10	167 482 961	99	5,8	110	7	77	



PROGEF Standard

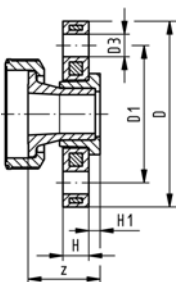
Valve end 546 (G63)

With fixed flange PP-H metric

Model:

- Material: PP-H
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Combined jointing face: flat and serrated

d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	z [mm]	
20	15	10	167 484 160	94	65	14	12	37	
25	20	10	167 484 161	103	75	14	13	42	
32	25	10	167 484 162	115	85	14	14	45	
40	32	10	167 484 163	138	100	18	15	48	
50	40	10	167 484 164	148	110	18	16	56	
63	50	10	167 484 165	163	125	18	18	65	



PROGEF Standard

Valve end 546 (G72)

Assembly with backing flange PP-St metric

Model:

- Material: PP-H
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	
75	65	10	167 484 418	185	145	18	18	16	77	
90	80	10	167 484 419	200	160	18	20	17	85	
110	100	10	167 484 420	220	180	18	20	18	93	

Overall products

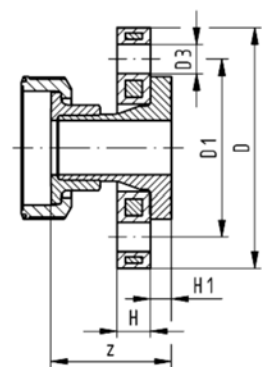
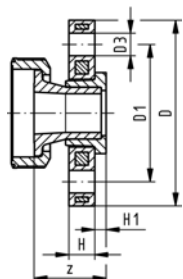
PROGEF Standard

Valve end 546 (G73)

With backing flange PP-St inch ANSI

Model:

- Material: PP-H
- DN15-50 overall length **NOT** according to EN 558
- DN 65-100 overall length according to EN 558
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



Inch	DN [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	
1/2	15	10	167 484 065	95	60	16	12	7	54	
3/4	20	10	167 484 066	105	70	16	12	9	55	
1	25	10	167 484 067	115	79	16	16	10	58	
1 1/4	32	10	167 484 068	140	89	16	16	11	60	
1 1/2	40	10	167 484 069	150	98	19	18	12	66	
2	50	10	167 484 070	165	121	19	18	14	68	
2 1/2	65	10	167 484 071	185	140	19	18	16	77	
3	80	10	167 484 072	200	152	19	20	17	85	
4	100	10	167 484 073	229	190	19	20	18	93	

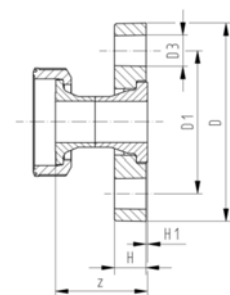
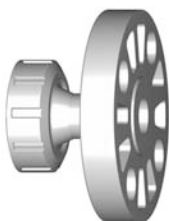
PROGEF Standard

Valve end 546 (G77)

Assembly with backing flange PP JIS

Model:

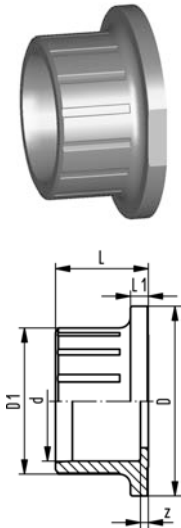
- Material: PP-H
- Overall length according to EN 558
- Connecting dimensions: JIS B 2220, 10K



Inch	DN [mm]	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	z [mm]	
1/2	15	167 484 019	95	70	15	16	1	44	
3/4	20	167 484 020	100	75	15	18	1	53	
1	25	167 484 021	125	90	19	20	1	58	
1 1/4	32	167 484 022	135	100	19	21	1	53	
1 1/2	40	167 484 023	140	105	19	21	1	62	
2	50	167 484 024	155	120	19	21	1	67	
2 1/2	65	167 484 481	175	140	19	29	1	77	
3	80	167 484 482	185	150	19	30	1	85	
4	100	167 484 483	210	175	19	34	1	93	

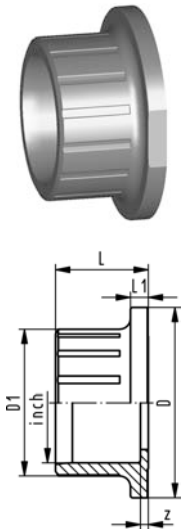
Overall products

Valve end 546 and 543 ABS (G20) With solvent cement socket metric



d [mm]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
16	10	169 480 775	38	23	18	4	4	
20	10	169 480 776	38	27	20	4	4	
25	10	169 480 777	44	33	22	5	4	
32	10	169 480 778	53	41	26	5	4	
40	10	169 480 779	65	51	31	5	5	
50	10	169 480 780	77	62	34	6	3	
63	10	169 480 781	99	77	41	7	3	
75	10	169 480 782	125	92	49	9	4	
90	10	169 480 783	150	110	57	10	5	
110	10	169 480 784	180	134	69	11	5	

Valve end 546 and 543 ABS (G21) With solvent cement socket Inch BS

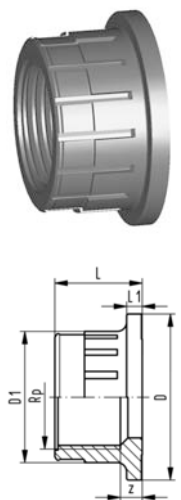


Inch	d [mm]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
3/8	16	10	169 480 800	38	23	18	4	2	
1/2	20	10	169 480 801	38	27	20	4	2	
3/4	25	10	169 480 802	44	33	23	5	2	
1	32	10	169 480 803	53	41	26	5	2	
1 1/4	40	10	169 480 804	65	51	31	5	2	
1 1/2	50	10	169 480 805	77	62	34	6	4	
2	63	10	169 480 806	99	77	41	7	5	
	75	10	169 480 782	125	92	49	9	4	
3	90	10	169 480 808	150	110	57	10	6	
4	110	10	169 480 809	180	134	69	11	5	

Valve end 546 and 543 ABS (G22) With threaded socket Rp

Model:

- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to ABS



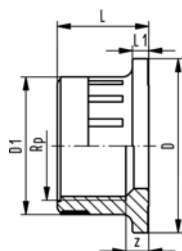
Rp [inch]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
3/8	10	169 480 786	38	24	20	4	7	
1/2	10	169 480 787	38	28	22	4	6	
3/4	10	169 480 788	44	34	25	5	7	
1	10	169 480 789	53	42	28	5	7	
1 1/4	10	169 480 790	65	52	30	5	7	
1 1/2	10	169 480 791	77	63	32	6	9	
2	10	169 480 792	99	78	38	7	10	

Overall products

Valve end 546 and 543 ABS (G23) With threaded socket Rp reinforced

Model:

- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to ABS

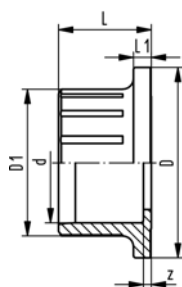


Rp [inch]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
3/8	16	169 480 925	38	24	20	4	7	
1/2	16	169 480 926	38	28	22	4	6	
3/4	16	169 480 927	44	34	25	5	7	
1	16	169 480 928	53	42	28	5	7	
1 1/4	16	169 480 929	65	52	30	5	7	
1 1/2	16	169 480 930	77	63	32	6	9	
2	16	169 480 931	99	78	38	7	10	

SYGEF Standard Valve end 546 and 543 (G50) With fusion socket metric

Model:

- Material: PVDF

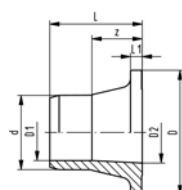


d [mm]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]	
16	16	175 483 025	38	23	19	4	5	
20	16	175 483 026	38	27	20	4	5	
25	16	175 483 027	44	33	22	5	6	
32	16	175 483 028	53	41	24	5	6	
40	16	175 483 029	65	51	26	5	7	
50	16	175 483 030	77	62	29	6	8	
63	16	175 483 031	99	77	34	7	8	

SYGEF Standard Valve end 546 and 543 (G51) With socket fusion pigot metric

Model:

- Material: PVDF



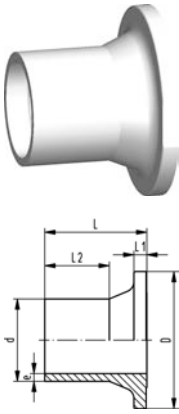
d [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	L2 [mm]	z [mm]	
16	16	175 483 036	38	10	16	27	4	13	14	
20	16	175 483 037	38	14	16	32	4	14	18	
25	16	175 483 038	44	19	20	37	5	16	21	
32	16	175 483 039	53	24	26	40	5	18	22	
40	16	175 483 040	65	31	33	43	5	20	23	
50	16	175 483 041	77	39	41	51	6	23	28	
63	16	175 483 042	99	49	51	60	7	27	33	

Overall products

SYGEF Standard Valve end 546 and 543 (G52) With butt fusion spigot IR-Plus® metric

Model:

- Material: PVDF

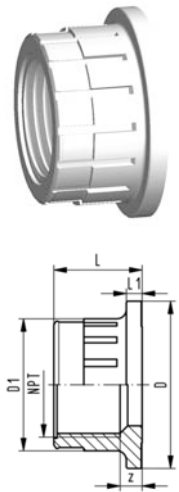


d [mm]	FM	PN	Code	D [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	
20	IR	16	175 483 048	38	1.9	37	4	25	
25	IR	16	175 483 049	44	1.9	39	5	25	
32	IR	16	175 483 050	53	2.4	40	5	25	
40	IR	16	175 483 051	65	2.4	43	5	25	
50	IR	16	175 483 052	77	3.0	51	6	25	
63	IR	16	175 483 053	99	3.0	60	7	28	

SYGEF Standard Valve end 546 and 543 (G53) With threaded socket NPT

Model:

- Material: PVDF
- Connection to plastic threads only
- Do not use thread sealing pastes that are harmful to PVDF

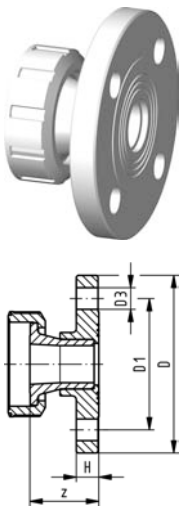


NPT [inch]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	z [mm]	
3/8	10	175 483 058	38	26	14	20	4	6	
1/2	10	175 483 059	38	33	16	21	4	4	
3/4	10	175 483 060	44	39	20	23	5	5	
1	10	175 483 061	53	47	26	28	5	6	
1 1/4	10	175 483 062	65	55	33	31	5	8	
1 1/2	10	175 483 063	77	65	41	34	6	11	
2	10	175 483 064	99	77	51	41	7	17	

SYGEF Standard Valve end 546 (G64) With fixed flange PVDF metric

Model:

- Material: PVDF
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Combined jointing face: flat and serrated



d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D3 [mm]	H [mm]	z [mm]	
20	15	16	175 483 285	93	65	14	12	37	
25	20	16	175 483 286	103	75	14	13	42	
32	25	16	175 483 287	115	85	14	14	45	
40	32	16	175 483 288	137	100	18	15	48	
50	40	16	175 483 289	147	110	18	16	56	
63	50	16	175 483 290	162	125	18	18	65	

Overall products

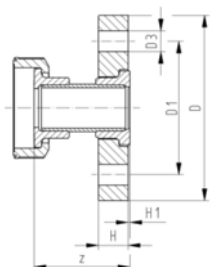
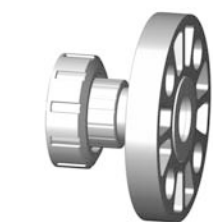
SYGEF Standard

Valve end 546 (G76)

Assembly with backing flange PP JIS

Model:

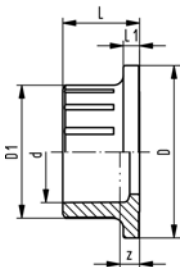
- Material: PVDF



Inch	DN	Code	D	D1	D3	H	H1	z
[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
1/2	15	175 483 124	95	70	15	16	1	52
3/4	20	175 483 125	100	75	15	18	1	57
1	25	175 483 126	125	90	19	20	1	65
1 1/4	32	175 483 127	135	100	19	21	1	68
1 1/2	40	175 483 128	140	105	19	21	1	81
2	50	175 483 129	155	120	19	21	1	85

Valve end 546 and 543 PE 100 (G40)

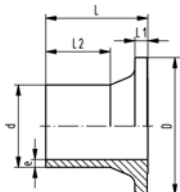
With fusion socket metric



d	PN	Code	D	D1	L	L1	z
[mm]			[mm]	[mm]	[mm]	[mm]	[mm]
16	16	193 480 175	38	23	19	4	5
20	16	193 480 176	38	27	20	4	5
25	16	193 480 177	44	33	22	5	6
32	16	193 480 178	53	41	24	5	6
40	16	193 480 179	65	51	26	5	7
50	16	193 480 180	77	62	29	6	8
63	16	193 480 181	99	77	34	7	8

Valve end 546 and 543 PE 100 (G41)

With butt fusion spigot IR-Plus® SDR11 metric

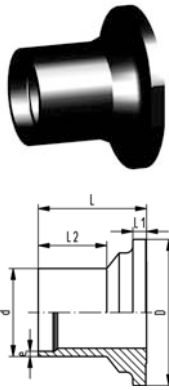


d	FM	PN	Code	D	e	L	L1	L2
[mm]				[mm]	[mm]	[mm]	[mm]	[mm]
20	IR	16	193 480 102	38	1,9	37	4	25
25	IR	16	193 480 103	44	2,3	39	5	25
32	IR	16	193 480 104	53	2,9	40	5	25
40	IR	16	193 480 105	65	3,7	43	5	25
50	IR	16	193 480 106	77	4,6	51	6	25
63	IR	16	193 480 107	99	5,8	60	7	28

Overall products

Valve end 546 and 543 PE 100 (G42)

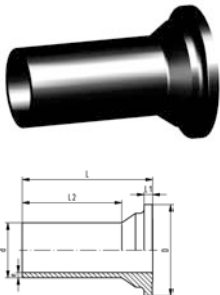
With butt fusion spigot IR-Plus® SDR17,6 metric



d [mm]	FM	PN	Code	D [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	
40	IR	10	193 480 086	65	2,3	43	5	25	
50	IR	10	193 480 087	77	2,9	51	6	25	
63	IR	10	193 480 088	99	3,6	60	7	28	

Valve end 546 and 543 PE 100 (G43)

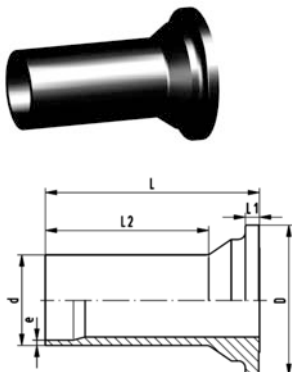
With butt fusion spigot long SDR11 metric



d [mm]	PN	Code	D [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	
20	16	193 480 152	38	2,25	69	4	53	
25	16	193 480 153	44	2,3	76	5	58	
32	16	193 480 154	53	2,9	76	5	58	
40	16	193 480 155	65	3,7	82	5	61	
50	16	193 480 156	77	4,6	91	6	63	
63	16	193 480 157	99	5,8	110	7	77	
75	16	193 480 158	125	6,8	125	9	89	
90	16	193 480 159	150	8,2	140	10	103	
110	16	193 480 160	180	10,0	160	11	117	

Valve end 546 and 543 PE 100 (G44)

With butt fusion spigot long SDR17,6 metric



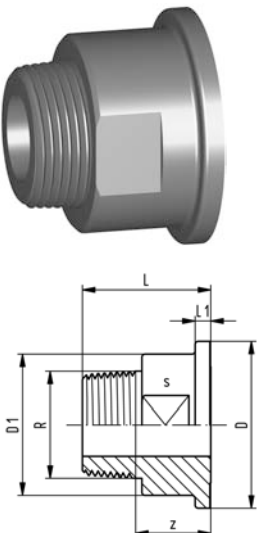
d [mm]	PN	Code	D [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	
75	16	193 480 168	125	4.3	125	9	89	
90	16	193 480 169	150	5.1	140	10	103	
110	16	193 480 170	180	6.3	160	11	117	

Valve end 546 and 543 brass

With threaded spigot R

Model:

- Connection to metal threads



Inch	Code	D [mm]	D1 [mm]	D2 [mm]	z [mm]	L [mm]	L1 [mm]	s [mm]	
1/2	161 486 640	38	32	13	23	36	4	30	
3/4	161 486 641	44	38	16	22	36	5	36	
1	161 486 642	53	45	20	24	41	5	41	

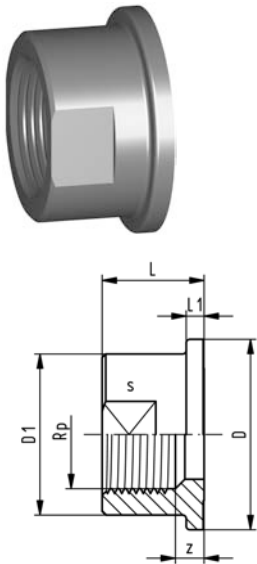
Overall products

Valve end 546 and 543 brass With threaded socket Rp

Model:

- Connection to metal threads

Inch	Code	D [mm]	D1 [mm]	D2 [mm]	z [mm]	L [mm]	L1 [mm]	s [mm]	
½	161 486 651	38	32	15	5	20	4	30	
¾	161 486 652	44	38	20	8	25	5	36	
1	161 486 653	53	45	25	10	29	5	41	



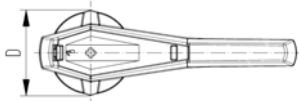
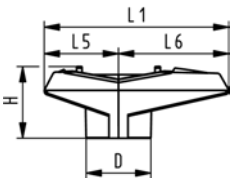
Overall products

Handle and handle extensions

Standard handle 546



DN10/15 - 50



d [mm]	DN [mm]	red (K01) Code	black (K02) Code	L1 [mm]	L5 [mm]	L6 [mm]	H [mm]	D [mm]	
16 - 20	10 - 15	167 484 088	167 484 076	77	32	45	31	26	
25	20	167 484 089	167 484 077	97	39	58	37	34	
32	25	167 484 090	167 484 078	97	39	58	37	34	
40	32	167 484 091	167 484 079	128	54	74	46	40	
50	40	167 484 092	167 484 080	128	54	74	46	40	
63	50	167 484 093	167 484 081	152	66	87	54	44	
75	65	167 484 094	167 484 082	270	64	206	58	106	
90	80	167 484 095	167 484 083	270	64	206	58	106	
110	100	167 484 096	167 484 084	320	64	256	60	106	

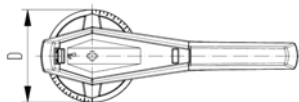
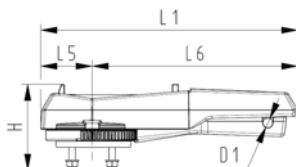
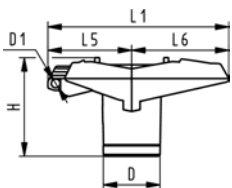
Multifunctional handle 546 red (K11) With ratchet settings lockable

Note:

To retrofit the ball valve 546 with the multifunctional handle a multifunction module is necessary in the dimensions DN65-100



DN10/15 - 50



d-d [mm]	DN-DN [mm]	Code	D [mm]	D1 [mm]	H [mm]	L1 [mm]	L5 [mm]	L6 [mm]	
16 - 20	10 - 15	167 484 100	26	5	53	87	42	45	
- 25	- 20	167 484 101	34	5	59	108	50	58	
- 32	- 25	167 484 102	34	5	59	108	50	58	
- 40	- 32	167 484 103	40	5	69	140	66	75	
- 50	- 40	167 484 104	40	5	69	140	66	75	
- 63	- 50	167 484 105	44	5	80	165	78	87	
- 75	- 65	161 486 689	115	12	105	270	64	206	
- 90	- 80	161 486 690	115	12	105	270	64	206	
110 - 140	100 - 125	161 486 691	115	12	107	320	64	256	

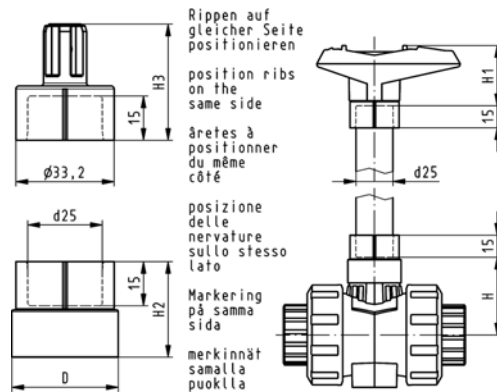
Overall products

Handle extension 546 and 543 PVC-U metric

Model:

- For ball valve type 546 and 543
- Composed of adapter sockets for handle connection and stem connection
- PVC-U pipe in suitable length has to be obtained on site

d-d [mm]	DN-DN [mm]	Code	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	D [mm]	
16 - 20	10 - 15	161 486 435	41	52	29	36	26	
25 - 32	20 - 25	161 486 436	50	62	32	39	36	
40 - 50	32 - 40	161 486 437	65	76	34	44	40	
- 63	- 50	161 486 438	84	87	37	48	44	

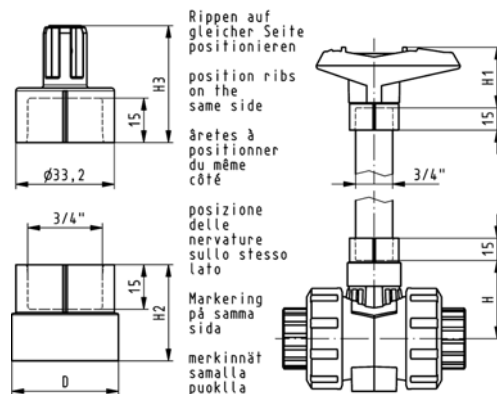


Handle extension 546 PVC-U inch BS/ASTM

Model:

- For Ball Valve Type 546

DN-DN [mm]	Inch	Code	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	D [mm]	
10 - 15	3/8-1/2	161 486 443	41	52	29	36	26	
20 - 25	3/4-1	161 486 444	50	62	32	39	36	
32 - 40	1 1/4-1 1/2	161 486 445	65	76	34	44	40	
50 -	2	161 486 446	84	87	37	48	44	

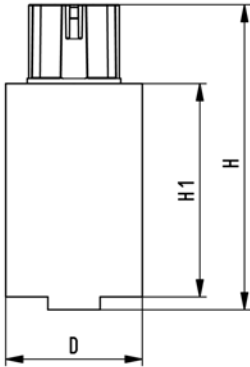


Overall products

Handle extension for ball valve type 546 PVC-U DN65 - DN100

Model:

- Multiple use in succession possible
- Height variable



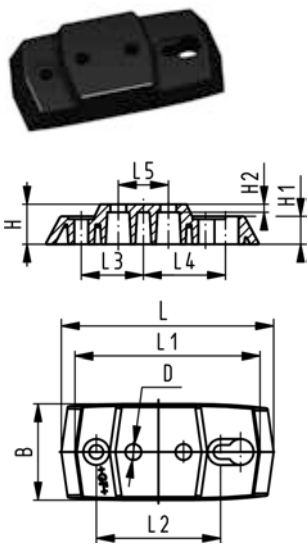
d-d [mm]	DN-DN [mm]	Code	D [mm]	H [mm]	H1 [mm]	
75 - 90	65 - 80	161 490 920	58	143	100	
- 110	- 100	161 490 921	64	143	100	

Overall products

Mounting plates

Mounting plate 546 and 543 PP-GF (L02)

- 2 mounting screws inclusive



d-d [mm]	Inch [inch]	DN-DN [mm]	Code									
16 - 32 40 - 63	¾ - 1 1 ¼ - 2	10 - 25 32 - 50	167 484 110 167 484 111									
d-d [mm]	B [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	
16 - 32 40 - 63	48 54	8 9	20 20	14 14	4 4	106 149	92 134	62 104	31 52	41 62	25 45	

Overall products

Mounting inserts

Mounting insert

Model:

- * 1 bag with 10 piece
- Material: A2
- to retrofit the fixing: ball valve type 546

d-d [mm]	Code	A [mm]	E [mm]	L [mm]	
16 - 32	161 486 014	6	10	12	
* 16 - 32	161 486 538	6	10	12	
40 - 90	161 481 448	8	12	15	
* 40 - 90	161 486 539	8	12	15	
* - 110	161 486 540				

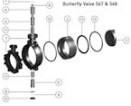
Overall products

Face seals

Face seal

d [mm]	DN [mm]	EPDM Code	FPM Code	
16	10	748 410 059	749 410 059	
32	25	748 410 151	749 410 151	
40	32	748 410 062	749 410 062	
63	50	748 410 231	749 410 231	

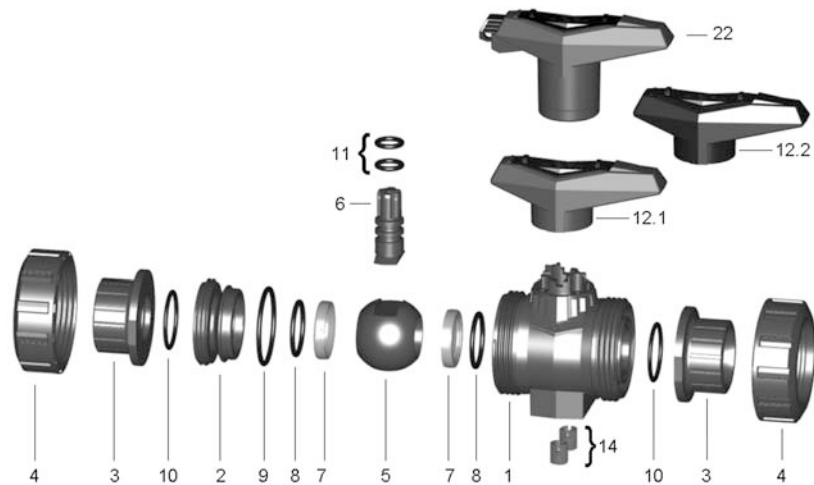
Spare parts

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Spare parts

Spare parts ball valves

Spare parts ball valve type 546



Central part

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 486 151	161 486 163	163 481 251	163 481 263	169 480 751
20	1/2	15	161 486 151	161 486 163	163 481 251	163 481 263	169 480 751
25	3/4	20	161 486 152	161 486 164	163 481 252	163 481 264	169 480 752
32	1	25	161 486 153	161 486 165	163 481 253	163 481 265	169 480 753
40	1 1/4	32	161 486 154	161 486 166	163 481 254	163 481 266	169 480 754
50	1 1/2	40	161 486 155	161 486 167	163 481 255	163 481 267	169 480 755
63	2	50	161 486 156	161 486 168	163 481 256	163 481 268	169 480 756
75	2 1/2	65	161 486 157	161 486 169	163 481 257	163 481 269	169 480 757
90	3	80	161 486 158	161 486 170	163 481 258	163 481 270	169 480 758
110	4	100	161 486 159	161 486 171	163 481 259	163 481 271	169 480 759

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 482 876	167 482 888	175 482 963
20	1/2	15	167 482 876	167 482 888	175 482 963
25	3/4	20	167 482 877	167 482 889	175 482 964
32	1	25	167 482 878	167 482 890	175 482 965
40	1 1/4	32	167 482 879	167 482 891	175 482 966
50	1 1/2	40	167 482 880	167 482 892	175 482 967
63	2	50	167 482 881	167 482 893	175 482 968
75	2 1/2	65	167 482 882	167 482 894	175 482 969
90	3	80	167 482 883	167 482 895	175 482 970
110	4	100	167 482 884	167 482 896	175 482 971

Spare parts

Ball set

Model:

- Ball seals standard in PTFE
- Ball set consisting of: ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)



d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code	
16	3/8	10	161 486 375	161 486 385	163 481 375	163 481 385	169 480 900	
20	1/2	15	161 486 375	161 486 385	163 481 375	163 481 385	169 480 900	
25	3/4	20	161 486 376	161 486 386	163 481 376	163 481 386	169 480 901	
32	1	25	161 486 377	161 486 387	163 481 377	163 481 387	169 480 902	
40	1 1/4	32	161 486 378	161 486 388	163 481 378	163 481 388	169 480 903	
50	1 1/2	40	161 486 379	161 486 389	163 481 379	163 481 389	169 480 904	
63	2	50	161 486 380	161 486 390	163 481 380	163 481 390	169 480 905	
75	2 1/2	65	161 486 381	161 486 391	163 481 381	163 481 391	169 480 906	
90	3	80	161 486 382	161 486 392	163 481 382	163 481 392	169 480 907	
110	4	100	161 486 383	161 486 393	163 481 383	163 481 393	169 480 908	

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
16	3/8	10	167 484 125	167 484 135	175 483 275	
20	1/2	15	167 484 125	167 484 135	175 483 275	
25	3/4	20	167 484 126	167 484 136	175 483 276	
32	1	25	167 484 127	167 484 137	175 483 277	
40	1 1/4	32	167 484 128	167 484 138	175 483 278	
50	1 1/2	40	167 484 129	167 484 139	175 483 279	
63	2	50	167 484 130	167 484 140	175 483 280	
75	2 1/2	65	167 484 131	167 484 141	175 483 281	
90	3	80	167 484 132	167 484 142	175 483 282	
110	4	100	167 484 133	167 484 143	175 483 283	

Lever



DN10/15 - 50



DN10/15 - 50



d [mm]	Inch	DN [mm]	Standard lever red Code	Standard lever black Code	Multifunctional lever Code	
16	3/8	10	167 484 088	167 484 076	167 484 100	
20	1/2	15	167 484 088	167 484 076	167 484 100	
25	3/4	20	167 484 089	167 484 077	167 484 101	
32	1	25	167 484 090	167 484 078	167 484 102	
40	1 1/4	32	167 484 091	167 484 079	167 484 103	
50	1 1/2	40	167 484 092	167 484 080	167 484 104	
63	2	50	167 484 093	167 484 081	167 484 105	
75	2 1/2	65	167 484 094	167 484 082	161 486 689	
90	3	80	167 484 095	167 484 083	161 486 690	
110	4	100	167 484 096	167 484 084	161 486 691	

Face seal

Model:

- Face seal no. 10



d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16	3/8	10	748 410 059	749 410 059	
20	1/2	15	748 410 059	749 410 059	
25	3/4	20	748 410 106	749 410 106	
32	1	25	748 410 151	749 410 151	
40	1 1/4	32	748 410 062	749 410 062	

table continued next page

Spare parts

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
50	1 ½	40	748 410 003	749 410 003	
63	2	50	748 410 231	749 410 231	
75	2 ½	65	748 410 119	749 410 119	
90	3	80	748 410 023	749 410 023	
110	4	100	748 410 254	749 410 254	

Seal set

Model:

- Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16	¾	10	161 486 400	161 486 410	
20	½	15	161 486 400	161 486 410	
25	¾	20	161 486 401	161 486 411	
32	1	25	161 486 402	161 486 412	
40	1 ¼	32	161 486 403	161 486 413	
50	1 ½	40	161 486 404	161 486 414	
63	2	50	161 486 405	161 486 415	
75	2 ½	65	161 486 406	161 486 416	
90	3	80	161 486 407	161 486 417	
110	4	100	161 486 408	161 486 418	

Spare parts

Spare parts shipbuilding ball valve type 547

Service housing end connector kit with iFIT connector



d [mm]	Inch	DN [mm]	Code	
20	½	15	167 547 902	

Service housing end connector kit With threaded socket Rp brass



Rp [inch]	DN [mm]	Code	
½	15	167 547 952	

Service housing end connector kit With fusion socket PB



d [mm]	Inch	DN [mm]	Code	
16	¾	10	167 547 931	
20	½	15	167 547 932	

Valve end iFIT



D [mm]	Inch	DN [mm]	Code	
20	½	15	167 547 112	

Valve end fusion socket PB



d [mm]	Inch	DN [mm]	Code	
16	¾	10	167 547 441	
20	½	15	167 547 442	

Service housing kit

Model:

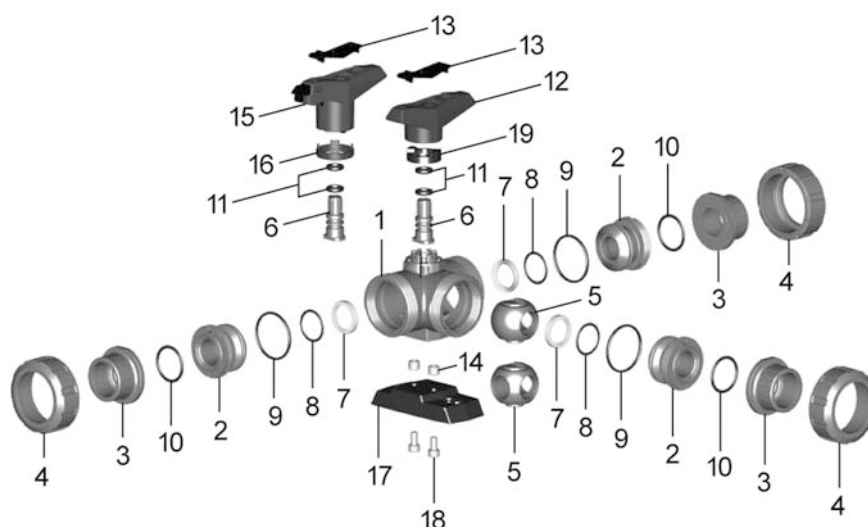
- With integrated check valve and filter



D [mm]	Inch	DN [mm]	Code	
16	¾	10	167 547 905	

Spare parts

Spare parts ball valve type 543 horizontal



Central part L-port

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 488 002	161 488 012	163 481 902	163 481 912	169 481 202
20	1/2	15	161 488 002	161 488 012	163 481 902	163 481 912	169 481 202
25	3/4	20	161 488 003	161 488 013	163 481 903	163 481 913	169 481 203
32	1	25	161 488 004	161 488 014	163 481 904	163 481 914	169 481 204
40	1 1/4	32	161 488 005	161 488 015	163 481 905	163 481 915	169 481 205
50	1 1/2	40	161 488 006	161 488 016	163 481 906	163 481 916	169 481 206
63	2	50	161 488 007	161 488 017	163 481 907	163 481 917	169 481 207

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 484 802	167 484 812	175 483 602
20	1/2	15	167 484 802	167 484 812	175 483 602
25	3/4	20	167 484 803	167 484 813	175 483 603
32	1	25	167 484 804	167 484 814	175 483 604
40	1 1/4	32	167 484 805	167 484 815	175 483 605
50	1 1/2	40	167 484 806	167 484 816	175 483 606
63	2	50	167 484 807	167 484 817	175 483 607



Central part T-port

Model:

- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 488 022	161 488 032	163 481 922	163 481 932	169 481 212
20	1/2	15	161 488 022	161 488 032	163 481 922	163 481 932	169 481 212
25	3/4	20	161 488 023	161 488 033	163 481 923	163 481 933	169 481 213
32	1	25	161 488 024	161 488 034	163 481 924	163 481 934	169 481 214

table continued next page

Spare parts

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code	
40	1 ¼	32	161 488 025	161 488 035	163 481 925	163 481 935	169 481 215	
50	1 ½	40	161 488 026	161 488 036	163 481 926	163 481 936	169 481 216	
63	2	50	161 488 027	161 488 037	163 481 927	163 481 937	169 481 217	

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
16	¾	10	167 484 822	167 484 832	175 483 612	
20	½	15	167 484 822	167 484 832	175 483 612	
25	¾	20	167 484 823	167 484 833	175 483 613	
32	1	25	167 484 824	167 484 834	175 483 614	
40	1 ¼	32	167 484 825	167 484 835	175 483 615	
50	1 ½	40	167 484 826	167 484 836	175 483 616	
63	2	50	167 484 827	167 484 837	175 483 617	



Ball set L-port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code	
16	¾	10	161 488 162	161 488 172	163 481 982	163 481 992	169 481 282	
20	½	15	161 488 162	161 488 172	163 481 982	163 481 992	169 481 282	
25	¾	20	161 488 163	161 488 173	163 481 983	163 481 993	169 481 283	
32	1	25	161 488 164	161 488 174	163 481 984	163 481 994	169 481 284	
40	1 ¼	32	161 488 165	161 488 175	163 481 985	163 481 995	169 481 285	
50	1 ½	40	161 488 166	161 488 176	163 481 986	163 481 996	169 481 286	
63	2	50	161 488 167	161 488 177	163 481 987	163 481 997	169 481 287	

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
16	¾	10	167 484 882	167 484 892	175 483 642	
20	½	15	167 484 882	167 484 892	175 483 642	
25	¾	20	167 484 883	167 484 893	175 483 643	
32	1	25	167 484 884	167 484 894	175 483 644	
40	1 ¼	32	167 484 885	167 484 895	175 483 645	
50	1 ½	40	167 484 886	167 484 896	175 483 646	
63	2	50	167 484 887	167 484 897	175 483 647	



Ball set T-port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code	
16	¾	10	161 488 182	161 488 192	163 482 002	163 482 012	169 481 292	
20	½	15	161 488 182	161 488 192	163 482 002	163 482 012	169 481 292	
25	¾	20	161 488 183	161 488 193	163 482 003	163 482 013	169 481 293	
32	1	25	161 488 184	161 488 194	163 482 004	163 482 014	169 481 294	
40	1 ¼	32	161 488 185	161 488 195	163 482 005	163 482 015	169 481 295	
50	1 ½	40	161 488 186	161 488 196	163 482 006	163 482 016	169 481 296	
63	2	50	161 488 187	161 488 197	163 482 007	163 482 017	169 481 297	

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
16	¾	10	167 484 902	167 484 912	175 483 652	
20	½	15	167 484 902	167 484 912	175 483 652	
25	¾	20	167 484 903	167 484 913	175 483 653	

table continued next page

Spare parts

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
32	1	25	167 484 904	167 484 914	175 483 654	
40	1 ¼	32	167 484 905	167 484 915	175 483 655	
50	1 ½	40	167 484 906	167 484 916	175 483 656	
63	2	50	167 484 907	167 484 917	175 483 657	

Lever



d [mm]	Inch	DN [mm]	Standard lever L- port red Code	Standard lever L- port black Code	Standard lever T- port red Code	
16	¾	10	167 484 488	167 484 376	167 484 588	
20	½	15	167 484 488	167 484 376	167 484 588	
25	¾	20	167 484 489	167 484 377	167 484 589	
32	1	25	167 484 490	167 484 378	167 484 590	
40	1 ¼	32	167 484 491	167 484 379	167 484 591	
50	1 ½	40	167 484 492	167 484 380	167 484 592	
63	2	50	167 484 493	167 484 381	167 484 593	

d [mm]	Inch	DN [mm]	Standard lever T- port black Code	Multifunctional- lever L-port red Code	Multifunctional- lever T-port red Code	
16	¾	10	167 484 576	167 484 442	167 484 542	
20	½	15	167 484 576	167 484 442	167 484 542	
25	¾	20	167 484 577	167 484 443	167 484 543	
32	1	25	167 484 578	167 484 444	167 484 544	
40	1 ¼	32	167 484 579	167 484 445	167 484 545	
50	1 ½	40	167 484 580	167 484 446	167 484 546	
63	2	50	167 484 581	167 484 447	167 484 547	



Face seal

Model:

- Face seal no. 10

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16	¾	10	748 410 059	749 410 059	
20	½	15	748 410 059	749 410 059	
25	¾	20	748 410 106	749 410 106	
32	1	25	748 410 151	749 410 151	
40	1 ¼	32	748 410 062	749 410 062	
50	1 ½	40	748 410 003	749 410 003	
63	2	50	748 410 231	749 410 231	

Seal set

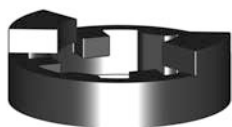
Model:

- Seal set consisting of: backing-, body-, face- and stem seal (8-11)

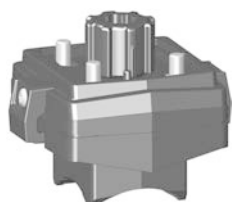
d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16	¾	10	161 488 242	161 488 248	
20	½	15	161 488 242	161 488 248	
25	¾	20	161 488 243	161 488 249	
32	1	25	161 488 244	161 488 250	
40	1 ¼	32	161 488 245	161 488 251	
50	1 ½	40	161 488 246	161 488 252	
63	2	50	161 488 247	161 488 253	

Spare parts

Turn limiter 90°



d [mm]	Inch	DN [mm]	Code	
16	$\frac{3}{8}$	10	167 482 479	
20	$\frac{1}{2}$	15	167 482 479	
25	$\frac{3}{4}$	20	167 482 480	
32	1	25	167 482 480	
40	1 $\frac{1}{4}$	32	167 482 481	
50	1 $\frac{1}{2}$	40	167 482 481	
63	2	50	167 482 482	



Assembly kit

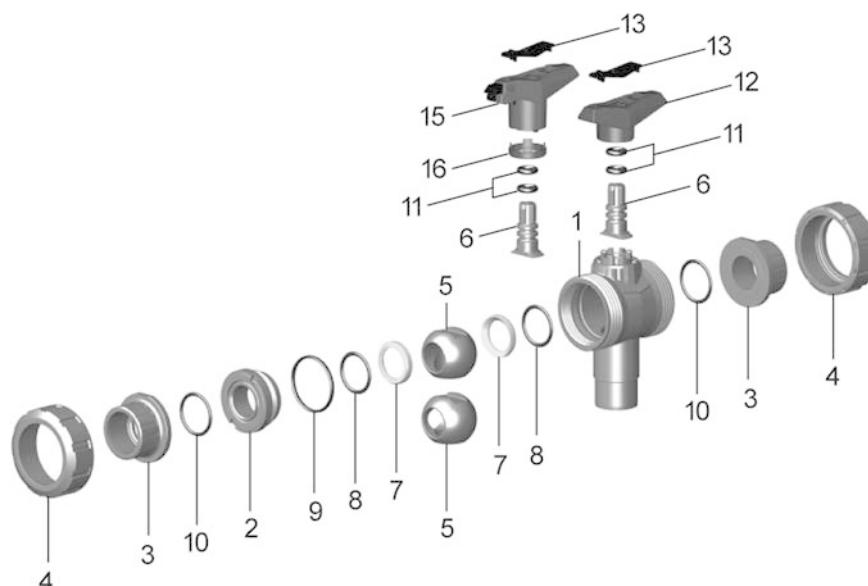
Model:

- Intermediate element for ball valve type 543 horizontal and electric or pneumatic actuators EA21; PA11/21
- Including screws and position indicator for actuators

d [mm]	Inch [inch]	DN [mm]	Code	
16 - 20	$\frac{3}{8}$ - $\frac{1}{2}$	10 - 15	167 484 941	
25 - 32	$\frac{3}{4}$ - 1	20 - 25	167 484 942	
40 - 50	1 $\frac{1}{4}$ - 1 $\frac{1}{2}$	32 - 40	167 484 943	
63	2	50	167 484 944	

Spare parts

Spare parts ball valve type 543 vertical



Central part L-port

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11) and standard lever (12)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	ABS EPDM Code	
16	3/8	10	161 488 041	161 488 051	169 481 221	
20	3/8	15	161 488 042	161 488 052	169 481 222	
25	3/4	20	161 488 043	161 488 053	169 481 223	
32	1	25	161 488 044	161 488 054	169 481 224	
40	1 1/4	32	161 488 045	161 488 055	169 481 225	
50	1 1/2	40	161 488 046	161 488 056	169 481 226	
63	2	50	161 488 047	161 488 057	169 481 227	



Central part diverter ball

Model:

- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11) and standard lever (12)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	ABS EPDM Code	
16	3/8	10	161 488 061	161 488 071	169 481 231	
20	1/2	15	161 488 062	161 488 072	169 481 232	
25	3/4	20	161 488 063	161 488 073	169 481 233	
32	1	25	161 488 064	161 488 074	169 481 234	
40	1 1/4	32	161 488 065	161 488 075	169 481 235	
50	1 1/2	40	161 488 066	161 488 076	169 481 236	
63	2	50	161 488 067	161 488 077	169 481 237	



Spare parts

Ball set L-port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

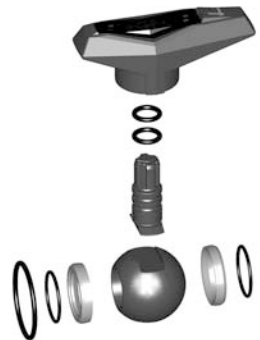


d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	ABS EPDM Code	
16	3/8	10	161 488 202	161 488 212	169 481 302	
20	1/2	15	161 488 202	161 488 212	169 481 302	
25	3/4	20	161 488 203	161 488 213	169 481 303	
32	1	25	161 488 204	161 488 214	169 481 304	
40	1 1/4	32	161 488 205	161 488 215	169 481 305	
50	1 1/2	40	161 488 206	161 488 216	169 481 306	
63	2	50	161 488 207	161 488 217	169 481 307	

Ball set diverter ball

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)



d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	ABS EPDM Code	
16	3/8	10	161 488 222	161 488 232	169 481 312	
20	1/2	15	161 488 222	161 488 232	169 481 312	
25	3/4	20	161 488 223	161 488 233	169 481 313	
32	1	25	161 488 224	161 488 234	169 481 314	
40	1 1/4	32	161 488 225	161 488 235	169 481 315	
50	1 1/2	40	161 488 226	161 488 236	169 481 316	
63	2	50	161 488 227	161 488 237	169 481 317	

Lever



d [mm]	Inch	DN [mm]	Standard lever L- port red Code	Standard lever di- verter ball red Code	Multifunctional- lever L-port red Code	
16	3/8	10	167 484 688	167 484 788	167 484 642	
20	1/2	15	167 484 688	167 484 788	167 484 642	
25	3/4	20	167 484 689	167 484 789	167 484 643	
32	1	25	167 484 690	167 484 790	167 484 644	
40	1 1/4	32	167 484 691	167 484 791	167 484 645	
50	1 1/2	40	167 484 692	167 484 792	167 484 646	
63	2	50	167 484 693	167 484 793	167 484 647	

d [mm]	Inch	DN [mm]	Multifunctional- lever diverter ball red Code	
16	3/8	10	167 484 742	
20	1/2	15	167 484 742	
25	3/4	20	167 484 743	
32	1	25	167 484 744	
40	1 1/4	32	167 484 745	
50	1 1/2	40	167 484 746	
63	2	50	167 484 747	

Spare parts

Face seal

Model:

- Face seal no. 10

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16	⅝	10	748 410 059	749 410 059	
20	½	15	748 410 059	749 410 059	
25	¾	20	748 410 106	749 410 106	
32	1	25	748 410 151	749 410 151	
40	1 ¼	32	748 410 062	749 410 062	
50	1 ½	40	748 410 003	749 410 003	
63	2	50	748 410 231	749 410 231	

Seal set

Model:

- Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16	⅝	10	161 486 400	161 486 410	
20	½	15	161 486 400	161 486 410	
25	¾	20	161 486 401	161 486 411	
32	1	25	161 486 402	161 486 412	
40	1 ¼	32	161 486 403	161 486 413	
50	1 ½	40	161 486 404	161 486 414	
63	2	50	161 486 405	161 486 415	

Assembly kit

Model:

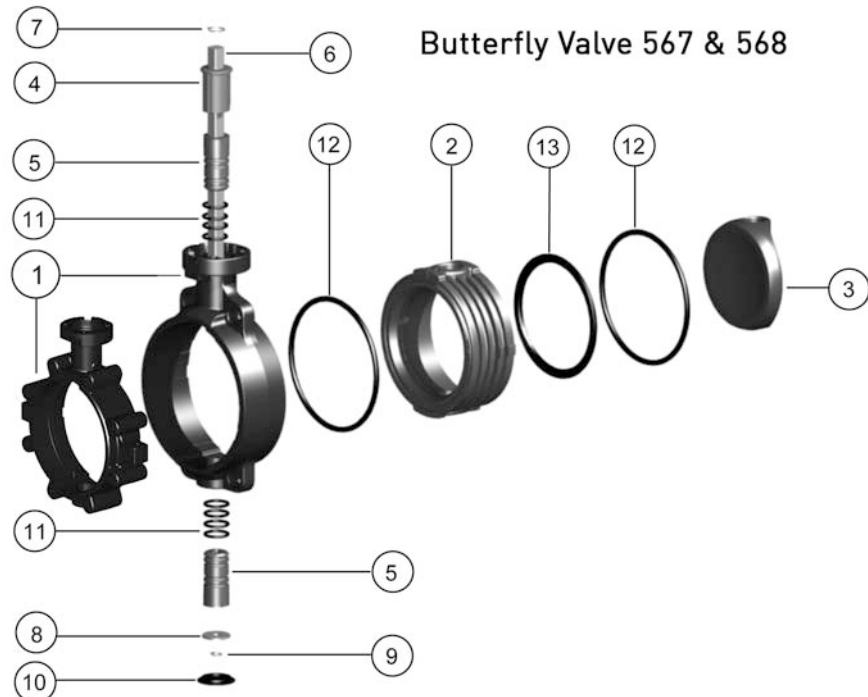
- Intermediate element for ball valve type 543 vertical and electric or pneumatic actuators EA21; PA11/21
- Including screws and position indicator for actuators

d [mm]	Inch [inch]	DN [mm]	Code	
16 - 20	⅝ - ½	10 - 15	167 484 945	
25 - 32	¾ - 1	20 - 25	167 484 946	
40 - 50	1 ¼ - 1 ½	32 - 40	167 484 947	
63	2	50	167 484 948	

Spare parts

Spare parts butterfly valves

Spare parts butterfly valve type 567/568



Inner body

Model:

- Inner body consisting of: inner body (2) and profile seal (13)



d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
63	2	50	161 486 861	161 486 873	163 481 591	163 481 603	169 481 067
75	2 ½	65	161 486 862	161 486 874	163 481 592	163 481 604	169 481 068
90	3	80	161 486 863	161 486 875	163 481 593	163 481 605	169 481 069
110	4	100	161 486 864	161 486 876	163 481 594	163 481 606	169 481 070
140	5	125	161 486 865	161 486 877	163 481 595	163 481 607	169 481 071
160	6	150	161 486 866	161 486 878	163 481 596	163 481 608	169 481 072
225	8	200	161 486 867	161 486 879	163 481 597	163 481 609	169 481 073
280	10	250	161 486 868	161 486 880			
315	12	300	161 486 869	161 486 881			

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	PVDF PTFE Code
63	2	50	167 484 271	167 484 286	175 483 413	175 483 752
75	2 ½	65	167 484 272	167 484 287	175 483 414	175 483 753
90	3	80	167 484 273	167 484 288	175 483 415	175 483 754
110	4	100	167 484 274	167 484 289	175 483 416	175 483 755
140	5	125	167 484 275	167 484 290	175 483 417	175 483 756
160	6	150	167 484 276	167 484 291	175 483 418	175 483 757
225	8	200	167 484 277	167 484 292	175 483 419	175 483 758
280	10	250	167 484 278	167 484 293	175 483 420	175 483 759
315	12	300	167 484 279	167 484 294	175 483 421	175 483 760

Spare parts

Flange seal (12)

Model:

- included in delivery 1 pcs.



d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
63	2	50	161 486 959	161 486 979	
75	2 ½	65	161 486 960	161 486 980	
90	3	80	161 486 961	161 486 981	
110	4	100	161 486 962	161 486 982	
125	5	125	161 486 963	161 486 983	
160	6	150	161 486 964	161 486 984	
225	8	200	161 486 965	161 486 985	
280	10	250	161 486 966	161 486 986	
315	12	300	161 486 967	161 486 987	
355	14	350	748 410 318	749 410 318	
400	16	400	748 410 319	749 410 319	
450	18	450	748 410 320	749 410 320	
500	20	500	748 410 321	749 410 321	
630	24	600	748 410 322	749 410 322	

Disc (3)



d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	
63	2	50	161 490 889	163 481 451	169 480 951	167 483 226	175 483 251	
75	2 ½	65	161 490 890	163 481 452	169 480 952	167 483 227	175 483 252	
90	3	80	161 490 891	163 481 453	169 480 953	167 483 228	175 483 253	
110	4	100	161 490 892	163 481 454	169 480 954	167 483 229	175 483 254	
140	5	125	161 490 893	163 481 455	169 480 955	167 483 230	175 483 255	
160	6	150	161 490 894	163 481 456	169 480 956	167 483 231	175 483 256	
225	8	200	161 490 895	163 481 457	169 480 957	167 483 232	175 483 257	
280	10	250	161 490 896			167 483 233	175 483 258	
315	12	300	161 490 897			167 483 234	175 483 259	
355	14	350	-			167 483 235		
400	16	400	-			167 483 236		
450	18	450	-			167 483 237		
500	20	500	-			167 483 238		
630	24	600	-			167 483 239		

Bearing bush (5, 11)

Model:

- included in delivery 2 pcs.
- With O-ring
- Bearing bushes in PP-H are used in PP-H and ABS butterfly valves



d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	PP-H EPDM Code	
63	2	50	161 486 886	161 486 892	163 481 576	163 481 582	167 484 259	
75	2 ½	65	161 486 886	161 486 892	163 481 576	163 481 582	167 484 259	
90	3	80	161 486 886	161 486 892	163 481 576	163 481 582	167 484 259	
110	4	100	161 486 887	161 486 893	163 481 577	163 481 583	167 484 260	
140	5	125	161 486 887	161 486 893	163 481 577	163 481 583	167 484 260	
160	6	150	161 486 888	161 486 894	163 481 578	163 481 584	167 484 261	
225	8	200	161 486 888	161 486 894	163 481 578	163 481 584	167 484 261	
280	10	250	161 486 889	161 486 895			167 484 262	
315	12	300	161 486 889	161 486 895			167 484 262	
355	14	350					167 484 263	
400	16	400					167 484 264	
450	18	450					167 484 280	
500	20	500					167 484 281	
630	24	600					167 484 282	

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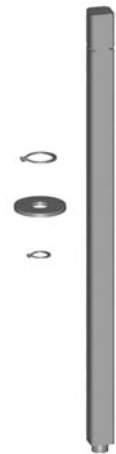
Spare parts

d [mm]	Inch	DN [mm]	PP-H FPM Code	PVDF FPM Code	
63	2	50	167 484 265	175 483 426	
75	2 ½	65	167 484 265	175 483 426	
90	3	80	167 484 265	175 483 426	
110	4	100	167 484 266	175 483 427	
140	5	125	167 484 266	175 483 427	
160	6	150	167 484 267	175 483 428	
225	8	200	167 484 267	175 483 428	
280	10	250	167 484 268	175 483 429	
315	12	300	167 484 268	175 483 429	
355	14	350	167 484 269		
400	16	400	167 484 270		
450	18	450	167 484 283		
500	20	500	167 484 284		
630	24	600	167 484 285		



End stop PP glasfiber reinforced (4)

d [mm]	Inch	DN [mm]	Code	
63	2	50	167 483 251	
75	2 ½	65	167 483 251	
90	3	80	167 483 251	
110	4	100	167 483 252	
140	5	125	167 483 252	
160	6	150	167 483 253	
225	8	200	167 483 253	
280	10	250	167 483 254	
315	12	300	167 483 254	



Shaft set

Model:

- Shaft set consisting of: shaft chrom steel 1.4301 AISI 304 (6), retention ring (7, 9) and washer (8)

d [mm]	Inch	DN [mm]	Code	
63	2	50	161 486 899	
75	2 ½	65	161 486 900	
90	3	80	161 486 901	
110	4	100	161 486 902	
140	5	125	161 486 903	
160	6	150	161 486 904	
225	8	200	161 486 905	
280	10	250	161 486 906	
315	12	300	161 486 907	
355	14	350	161 486 908	
400	16	400	161 486 909	
450	18	450	161 486 926	
500	20	500	161 486 927	
630	24	600	161 486 928	



Hand lever

d [mm]	Inch	DN [mm]	with index plate Code	with fine adjust- ment Code	
63	2	50	161 486 690	161 486 325	
75	2 ½	65	161 486 690	161 486 325	
90	3	80	161 486 690	161 486 325	
110	4	100	161 486 691	161 486 326	
140	5	125	161 486 691	161 486 326	

table continued next page

Spare parts

d [mm]	Inch	DN [mm]	with index plate Code	with fine adjust- ment Code	
160	6	150	161 486 694	161 486 327	
225	8	200	161 486 695	161 486 328	
280	10	250	161 486 697		
315	12	300	161 486 697		

Profile seal (13) DN350-600

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
355	14	350	748 440 018	749 440 028	
400	16	400	748 440 019	749 440 029	
450	18	450	748 440 020	749 440 030	
500	20	500	748 440 021	749 440 031	
630	24	600	748 440 022	749 440 032	

Snap ring DN350-600

- For fixation of profile seal in body

d [mm]	Inch	DN [mm]	PP-H Code	
355	14	350	167 484 295	
400	16	400	167 484 296	
450	18	450	167 484 297	
500	20	500	167 484 298	
630	24	600	167 484 299	

Spare parts

Intermediate element

Pneumatic type 240 / 241 / 242 Without manual override

d [mm]	DN [mm]	Type of actuator	Code	
63	50	PA30 FC/FO	198 000 595	
63	50	PA35 DA	198 000 595	
75	65	PA30 FC/FO	198 000 595	
75	65	PA35 DA	198 000 595	
90	80	PA40 DA	198 000 595	
90	80	PA35 FC/FO	198 000 596	
110	100	PA40 FC/FO	198 000 600	
110	100	PA45 DA	198 000 600	
140	125	PA45 DA	198 000 600	
140	125	PA45 FC/FO	198 000 597	
160	150	PA55 DA	198 000 600	
160	150	PA50 FC	198 000 599	
225	200	PA55 FC/FO	198 000 598	
225	200	PA55 DA	198 000 600	
280	250	FA65 FC/FO	198 000 730	
280	250	PA65 DA	198 000 731	
315	300	PA70 FC/FO	198 000 730	
315	300	PA70 DA	198 000 731	

Electric type 140 / 141 / 142 Without manual override

d [mm]	DN [mm]	Type of actuator	Code	
63	50	EA31	198 000 601	
75	65	EA31	198 000 601	
90	80	EA31	198 000 601	
110	100	EA31	198 000 602	
140	125	EA31	198 000 602	
160	150	EA31	198 000 599	
225	200	EA42	198 000 603	
280	250	EA42	198 000 732	
315	300	EA42	198 000 732	

Electric type 140 / 141 / 142 With manual override

d-d [mm]	DN-DN [mm]	Type of actuator	Code	
63 - 90	50 - 80	EA31	198 000 623	
110 - 140	100 - 125	EA31	198 000 624	
- 160	- 150	EA31	198 000 625	
- 225	- 200	EA42	198 000 627	

Gear operated with handwheel 567 / 568

d [mm]	DN [mm]	Code	
63	50	198 000 621	
75	65	198 000 621	
90	80	198 000 621	
110	100	198 000 622	
140	125	198 000 622	
160	150	198 000 599	

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Spare parts

d [mm]	DN [mm]	Code	
225	200	198 000 599	
280	250	198 000 880	
315	300	198 000 880	

Reduction gear with handwheel



d [mm]	Inch	DN [mm]	Code	
75	2 ½	65	161 482 408	
90	3	80	161 482 408	
110	4	100	161 482 408	
125	4 ½	125	161 482 408	
160	6	150	161 482 408	
225	8	200	161 482 408	
280	10	250	161 483 462	
315	12	300	161 483 462	

Spare parts

Spare parts diaphragm valves new generation

Spare parts for hand-operated valves
Type 514/515/517/519



Bonnet complete

d [mm]	Inch	DN [mm]	Standard configuration PN10 Code	For pressure tight housing PN10 Code	Standard configuration PN16 Code	
20	½	15	198 151 742	198 151 752	198 151 842	
25	¾	20	198 151 743	198 151 753	198 151 843	
32	1	25	198 151 744	198 151 754	198 151 844	
40	1 ¼	32	198 151 745	198 151 755	198 151 845	
50	1 ½	40	198 151 746	198 151 756	198 151 846	
63	2	50	198 151 747	198 151 757	198 151 847	

d [mm]	Inch	DN [mm]	For pressure tight housing PN16 Code	
20	½	15	198 151 852	
25	¾	20	198 151 853	
32	1	25	198 151 854	
40	1 ¼	32	198 151 855	
50	1 ½	40	198 151 856	
63	2	50	198 151 857	

Hand wheel

Model:

- Without position indicator



DN [mm]	Code	
15 - 20	198 204 162	
25 - 32	198 204 164	
40 - 50	198 104 166	

Spare parts

Position indicator



d [mm]	Inch	DN [mm]	Code	
20	½	15	167 484 992	
25	¾	20	167 484 993	
32	1	25	167 484 994	
40	1 ¼	32	167 484 995	
50	1 ½	40	167 484 996	
63	2	50	167 484 997	



Spindle assembly

Model:

- Incl. position indicator and compressor

DN-DN [mm]	Code	
15 - 20	198 204 327	
25 - 32	198 204 328	
40 - 50	198 204 329	



Seal set

Model:

- For manual valve - pressure tight housing
- Incl. position indicator

d [mm]	Inch	DN [mm]	EPDM Code	
20	½	15	198 000 892	
25	¾	20	198 000 893	
32	1	25	198 000 894	
40	1 ¼	32	198 000 895	
50	1 ½	40	198 000 896	
63	2	50	198 000 897	

Spare parts

Spare parts for automatic valves Diastar Six/Ten/Sixteen



Actuators



d [mm]	Inch	DN [mm]	Diastar Six Code	Diastar Ten Code	Diastar Sixteen FC Code	Diastar Ten FO Code	
20	½	15	198 151 762	198 151 772	198 151 782	198 151 792	
25	¾	20	198 151 763	198 151 773	198 151 783	198 151 793	
32	1	25	198 151 764	198 151 774	198 151 784	198 151 794	
40	1 ¼	32	198 151 765	198 151 775	198 151 785	198 151 795	
50	1 ½	40	198 151 766	198 151 776	198 151 786	198 151 796	
63	2	50	198 151 767	198 151 777	198 151 787	198 151 797	

d [mm]	Inch	DN [mm]	Diastar Ten DA Code	
20	½	15	198 151 802	
25	¾	20	198 151 803	
32	1	25	198 151 804	
40	1 ¼	32	198 151 805	
50	1 ½	40	198 151 806	
63	2	50	198 151 807	

Indicator cap



Size	Code	
1-2	198 806 639	
3-5	198 806 640	

Spare parts

Compressor set

Model:

- Incl. diaphragm holder



d [mm]	Inch	DN [mm]	Code	
20	1/2	15	198 000 872	
25	3/4	20	198 000 873	
32	1	25	198 000 874	
40	1 1/4	32	198 000 875	
50	1 1/2	40	198 000 876	
63	2	50	198 000 877	

Seal set

Model:

- Spindle seal and piston seal



Size	Diastar Six/Ten/ Sixteen Code	Only for Diastar Six DN40/DN50 Code	
Gr. 1	198 000 881	-	
Gr. 2	198 000 882	-	
Gr. 3	198 000 883	198 000 886	
Gr. 4	198 000 884	-	
Gr. 5	198 000 885	-	

Spare parts diaphragm

For type 514/515/517/519



d [mm]	Inch	DN [mm]	NBR Code	EPDM Code	FPM Code	PTFE/EPDM Code	PTFE/EPDM HP Code	
20	1/2	15	745 500 012	748 500 012	749 500 012	747 502 012	747 502 032	
25	3/4	20	745 500 013	748 500 013	749 500 013	747 502 013	747 502 033	
32	1	25	745 500 014	748 500 014	749 500 014	747 502 014	747 502 034	
40	1 1/4	32	745 500 015	748 500 015	749 500 015	747 502 015	747 502 035	
50	1 1/2	40	745 500 016	748 500 016	749 500 016	747 502 016	747 502 036	
63	2	50	745 500 017	748 500 017	749 500 017	747 502 017	747 502 037	

d [mm]	Inch	DN [mm]	PTFE/FPM Code	
20	1/2	15	747 503 012	
25	3/4	20	747 503 013	
32	1	25	747 503 014	
40	1 1/4	32	747 503 015	
50	1 1/2	40	747 503 016	
63	2	50	747 503 017	

Spare parts for valve body type 514

Valve body with true union

Model:

- Without connection parts



d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	
20	1/2	15	161 492 062	163 482 052	169 481 322	167 483 522	175 483 682	
25	3/4	20	161 492 063	163 482 053	169 481 323	167 483 523	175 483 683	
32	1	25	161 492 064	163 482 054	169 481 324	167 483 524	175 483 684	
40	1 1/4	32	161 492 065	163 482 055	169 481 325	167 483 525	175 483 685	
50	1 1/2	40	161 492 066	163 482 056	169 481 326	167 483 526	175 483 686	
63	2	50	161 492 067	163 482 057	169 481 327	167 483 527	175 483 687	

table continued next page

Spare parts

d [mm]	Inch	DN [mm]	PVDF HP Code	
20	½	15	180 001 002	
25	¾	20	180 001 003	
32	1	25	180 001 004	
40	1 ¼	32	180 001 005	
50	1 ½	40	180 001 006	
63	2	50	180 001 007	



Union end

d [mm]	Inch	DN [mm]	PVC-U metric Code	PVC-U JIS Code	PVC-U BS Code	PVC-U ASTM Code	PP-H metric Code	
20	½	15	721 600 106	721 605 106	721 601 106	721 602 006	727 600 106	
25	¾	20	721 600 107	721 605 107	721 601 107	721 602 007	727 600 107	
32	1	25	721 600 108	721 605 108	721 601 108	721 602 008	727 600 108	
40	1 ¼	32	721 600 109	721 605 109	721 601 109	721 602 009	727 600 109	
50	1 ½	40	721 600 110	721 605 110	721 601 110	721 602 010	727 600 110	
63	2	50	721 600 111	721 605 111	721 601 111	721 602 011	727 600 111	

d [mm]	Inch	DN [mm]	PVDF metric Code	
20	½	15	735 600 106	
25	¾	20	735 600 107	
32	1	25	735 600 108	
40	1 ¼	32	735 600 109	
50	1 ½	40	735 600 110	
63	2	50	735 600 111	



Union nut

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	
20	½	15	721 690 006	723 690 006	729 690 406	727 690 406	735 690 406	
25	¾	20	721 690 007	723 690 007	729 690 407	727 690 407	735 690 407	
32	1	25	721 690 008	723 690 008	729 690 408	727 690 408	735 690 408	
40	1 ¼	32	721 690 009	723 690 009	729 690 409	727 690 409	735 690 409	
50	1 ½	40	721 690 010	723 690 010	729 690 410	727 690 410	735 690 410	
63	2	50	721 690 011	723 690 011	729 690 411	727 690 411	735 690 411	



O-ring

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
20	½	15	748 410 006	749 410 006	
25	¾	20	748 410 007	749 410 007	
32	1	25	748 410 008	749 410 008	
40	1 ¼	32	748 410 009	749 410 009	
50	1 ½	40	748 410 010	749 410 010	
63	2	50	748 410 011	749 410 011	

Spare parts

Spare parts for valve body type 515

Valve body with spigot ends



d [mm]	Inch	DN [mm]	PVC-U solvent ce- ment spigot Code	PVC-C solvent ce- ment spigot Code	ABS solvent ce- ment spigot Code	
20	½	15	161 492 072	163 482 062	169 481 862	
25	¾	20	161 492 073	163 482 063	169 481 863	
32	1	25	161 492 074	163 482 064	169 481 864	
40	1 ¼	32	161 492 075	163 482 065	169 481 865	
50	1 ½	40	161 492 076	163 482 066	169 481 866	
63	2	50	161 492 077	163 482 067	169 481 867	



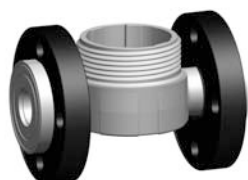
d [mm]	Inch	DN [mm]	PP-H socket fu- sion spigot Code	PP-H butt fusion spigot IR Code	PP-N butt fusion spigot IR Code	
20	½	15	167 483 342	167 483 882	168 480 462	
25	¾	20	167 483 343	167 483 883	168 480 463	
32	1	25	167 483 344	167 483 884	168 480 464	
40	1 ¼	32	167 483 345	167 483 885	168 480 465	
50	1 ½	40	167 483 346	167 483 886	168 480 466	
63	2	50	167 483 347	167 483 887	168 480 467	



d [mm]	Inch	DN [mm]	PVDF socket fu- sion spigot Code	PVDF butt fusion spigot IR Code	PVDF-HP butt fu- sion spigot IR Code	
20	½	15	175 483 692	175 483 742	180 001 012	
25	¾	20	175 483 693	175 483 743	180 001 013	
32	1	25	175 483 694	175 483 744	180 001 014	
40	1 ¼	32	175 483 695	175 483 745	180 001 015	
50	1 ½	40	175 483 696	175 483 746	180 001 016	
63	2	50	175 483 697	175 483 747	180 001 017	

Spare parts for valve body type 517

Valve body with flange connection



d [mm]	Inch	DN [mm]	PVC-U JIS Code	PP-H JIS Code	PVDF JIS Code	
20	½	15	161 480 282	167 484 402	175 483 532	
25	¾	20	161 480 283	167 484 403	175 483 533	
32	1	25	161 480 284	167 484 404	175 483 534	
40	1 ¼	32	161 480 285	167 484 405	175 483 535	
50	1 ½	40	161 480 286	167 484 406	175 483 536	
63	2	50	161 480 287	167 484 407	175 483 537	

Flange adaptor flat



d [mm]	Inch	DN [mm]	PVC-U metric Code	PVC-C metric Code	ABS metric Code	PP-H metric Code	
20	½	15	721 800 106	723 790 106	729 790 106	727 790 206	
25	¾	20	721 800 107	723 790 107	729 790 107	727 790 207	
32	1	25	721 800 108	723 790 108	729 790 108	727 790 208	
40	1 ¼	32	721 800 109	723 790 109	729 790 109	727 790 209	
50	1 ½	40	721 800 110	723 790 110	729 790 110	727 790 210	
63	2	50	721 790 111	723 790 111	729 790 111	727 790 211	

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Spare parts

d [mm]	Inch	DN [mm]	PVDF metric Code	
20	½	15	735 790 206	
25	¾	20	735 790 207	
32	1	25	735 790 208	
40	1 ¼	32	735 790 209	
50	1 ½	40	735 790 210	
63	2	50	735 790 211	



Flange

d [mm]	Inch	DN [mm]	PVC-U metric Code	PVC-U ASTM Code	PP-V metric Code	PP-V ASTM Code	PP-ST metric Code	
20	½	15	721 700 006	721 702 206	727 700 406	727 701 406	727 700 206	
25	¾	20	721 700 007	721 702 207	727 700 407	727 701 407	727 700 207	
32	1	25	721 700 008	721 702 208	727 700 408	727 701 408	727 700 208	
40	1 ¼	32	721 700 009	721 702 209	727 700 409	727 701 409	727 700 209	
50	1 ½	40	721 700 010	721 702 210	727 700 410	727 701 410	727 700 210	
63	2	50	721 700 011	721 702 211	727 700 411	727 701 411	727 700 211	

d [mm]	Inch	DN [mm]	PP-ST ASTM Code	
20	½	15	727 701 206	
25	¾	20	727 701 207	
32	1	25	727 701 208	
40	1 ¼	32	727 701 209	
50	1 ½	40	727 701 210	
63	2	50	727 701 211	



Flat gasket

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
20	½	15	748 400 006	749 400 006	
25	¾	20	748 400 007	749 400 007	
32	1	25	748 400 008	749 400 008	
40	1 ¼	32	748 400 009	749 400 009	
50	1 ½	40	748 400 010	749 400 010	
63	2	50	748 400 011	749 400 011	

Spare parts for valve body type 519

Valve body with butt fusion spigot



d [mm]	Inch	PP-H Code	PP-Natur Code	PVDF-HP Code	
20 - 20	½	167 485 911	168 480 601	180 001 101	
25 - 20	¾	167 485 912	168 480 602	180 001 102	
25 - 25	¾	167 485 913	168 480 603	180 001 103	
32 - 20	1	167 485 914	168 480 604	180 001 104	
32 - 25	1	167 485 915	168 480 605	180 001 105	
32 - 32	1	167 485 916	168 480 606	180 001 106	
40 - 20	1 ¼	167 485 917	168 480 607	180 001 107	
40 - 25	1 ¼	-	-	180 001 108	
40 - 32	1 ¼	-	-	180 001 109	
40 - 40	1 ¼	-	-	180 001 110	
50 - 20	1 ½	167 485 922	168 480 611	180 001 111	
50 - 25	1 ½	167 485 923	168 480 612	180 001 112	
50 - 32	1 ½	167 485 924	168 480 613	180 001 113	
50 - 40	1 ½	-	-	180 001 114	
50 - 50	1 ½	-	-	180 001 115	
63 - 20	2	167 485 927	168 480 616	180 001 116	
63 - 25	2	167 485 928	168 480 617	180 001 117	
63 - 32	2	167 485 929	168 480 618	180 001 118	

table continued next page

Spare parts

d [mm]	Inch	PP-H Code	PP-Natur Code	PVDF-HP Code	
63 - 40	2	-	-	180 001 119	
63 - 50	2	-	-	180 001 120	
63 - 63	2	-	-	180 001 121	
90 - 25	3	-		180 001 126	
90 - 32	3	-		180 001 127	
90 - 50	3	-		180 001 128	
90 - 63	3	-		180 001 129	
110 - 20	4	-		180 001 130	
110 - 25	4	-		180 001 131	
110 - 32	4	-		180 001 132	
110 - 50	4	-		180 001 133	
110 - 63	4	-		180 001 134	

Spare parts

Spare parts solenoid valves

Spare parts solenoid valve type 157 coil set

Voltage	Function	EPDM Code	FPM Code	
24V DC	A	198 808 000	198 808 006	
24V DC	B	198 808 001	198 808 007	
24V UC	A	198 808 002	198 808 008	
24V UC	B	198 808 003	198 808 009	
230V AC	A	198 808 004	198 808 010	
230V AC	B	198 808 005	198 808 011	

wear part set

	EPDM Code	FPM Code	
e.g. o-rings	198 808 012	198 808 013	

Spare parts solenoid valve type 160/161

coil set

24V UC Code	230 V UC Code	230 V/ 50Hz Code	
198 808 014	198 808 015	198 808 016	

spare part kit

Function	UC Code	50Hz Code	
A	198 808 017	198 808 021	
B	198 808 018	-	
E	198 808 019	-	
F	198 808 020	198 808 022	

wear part set

d [mm]	DN [mm]	EPDM Code	FPM Code	
16	10	198 808 023	198 808 026	
20	15	198 808 024	198 808 027	
25	20	198 808 025	198 808 028	

Spare parts solenoid valve type 165

coil set

Voltage	EPDM Code	FPM Code	
24V DC	198 808 029	198 808 032	
230V AC	198 808 030	198 808 033	
110V AC	198 808 031	198 808 034	

Spare parts

wear part set

d-d [mm]	DN-DN [mm]	EPDM Code	FPM Code	
20 - 25	15 - 20	198 808 035	198 808 038	
32 - 40	25 - 32	198 808 036	198 808 039	
50 - 63	40 - 50	198 808 037	198 808 040	

Spare parts solenoid valve type 166

coil set

Voltage	Function	EPDM Code	FPM Code	
24V DC	A	198 808 041	198 808 047	
230V AC	A	198 808 042	198 808 048	
24V DC	C	198 808 043	-	
24V UC	C	-	198 808 049	
230V AC	C	198 808 044	198 808 050	
24V DC	E	198 808 045	198 808 051	
230V AC	E	198 808 046	198 808 052	

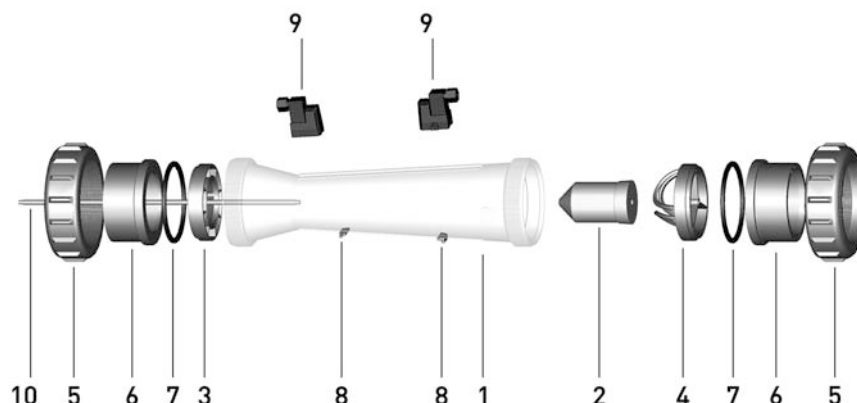
wear part set

	EPDM Code	FPM Code	
e.g. o-rings	198 808 053	198 808 054	

Spare parts

Spare parts variable area flow meters

Variable area flow meter type 335



Taper tube with water scale (1)

- PVC-U transparent



Scale range [l/h]	d [mm]	Inch	DN [mm]	PVC-U transpar- ent Code	Polyamid Code	Polysulfon Code	
50 - 500	32	1	25	198 335 055	198 335 070	198 335 085	
100 - 1000	32	1	25	198 335 056	198 335 071	198 335 086	
150 - 1500	40	1 ¼	32	198 335 057	198 335 072	198 335 087	
250 - 2500	40	1 ¼	32	198 335 058	198 335 073	198 335 088	
200 - 2000	50	1 ½	40	198 335 059	198 335 074	198 335 089	
300 - 3000	50	1 ½	40	198 335 060	198 335 075	198 335 090	
600 - 6000	50	1 ½	40	198 335 061	198 335 076	198 335 091	
600 - 6000	63	2	50	198335062*	198 335 077	198 335 092	
1000 - 10000	63	2	50	198335063*	198 335 078	198 335 093	
1500 - 15000	63	2	50	198335064*	198 335 079	198 335 094	
2000 - 20000	75	2 ½	65	198335065*	198 335 080	198 335 095	
3000 - 30000	75	2 ½	65	198335066*	198 335 081	198 335 096	
8000 - 60000	75	2 ½	65	198335067*	198 335 082	198 335 097	

Taper tube without scale (1)

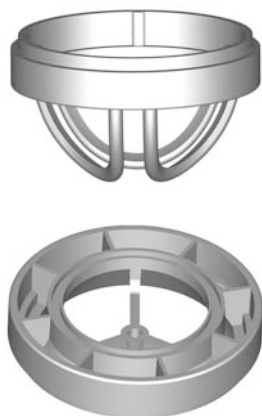
- PVC-U transparent



Scale range [l/h]	d [mm]	Inch	DN [mm]	PVC-U transpar- ent Code	Polyamid Code	Polysulfon Code	
50 - 500	32	1	25	198 335 255	198 335 270	198 335 285	
100 - 1000	32	1	25	198 335 256	198 335 271	198 335 286	
150 - 1500	40	1 ¼	32	198 335 257	198 335 272	198 335 287	
250 - 2500	40	1 ¼	32	198 335 258	198 335 273	198 335 288	
200 - 2000	50	1 ½	40	198 335 259	198 335 274	198 335 289	
300 - 3000	50	1 ½	40	198 335 260	198 335 275	198 335 290	
600 - 6000	50	1 ½	40	198 335 261	198 335 276	198 335 291	
600 - 6000	63	2	50	198335262*	198 335 277	198 335 292	
1000 - 10000	63	2	50	198335263*	198 335 278	198 335 293	
1500 - 15000	63	2	50	198335264*	198 335 279	198 335 294	
2000 - 20000	75	2 ½	65	198335265*	198 335 280	198 335 295	
3000 - 30000	75	2 ½	65	198335266*	198 335 281	198 335 296	
8000 - 60000	75	2 ½	65	198335267*	198 335 282	198 335 297	

Spare parts

Insert PVDF (3,4)



Scale range [l/h]	d [mm]	Inch	DN [mm]	top (4) Code	bottom (3) Code	
50 - 500	32	1	25	198 335 970	198 335 977	
100 - 1000	32	1	25	198 335 970	198 335 977	
150 - 1500	40	1 ¼	32	198 335 971	198 335 978	
250 - 2500	40	1 ¼	32	198 335 971	198 335 978	
200 - 2000	50	1 ½	40	198 335 972	198 335 979	
300 - 3000	50	1 ½	40	198 335 972	198 335 979	
600 - 6000	50	1 ½	40	198 335 972	198 335 979	
600 - 6000	63	2	50	198 335 973	198 335 980	
1000 - 10000	63	2	50	198 335 973	198 335 980	
1500 - 15000	63	2	50	198 335 974	198 335 982	
2000 - 20000	75	2 ½	65	198 335 975	198 335 981	
3000 - 30000	75	2 ½	65	198 335 975	198 335 981	
8000 - 60000	75	2 ½	65	198 335 975	198 335 981	

Float PVDF (2)



Scale range [l/h]	d [mm]	Inch	DN [mm]	Without magnet Code	With magnet (bistabil) Code	
50 - 500	32	1	25	198 335 455	198 335 470	
100 - 1000	32	1	25	198 335 455	198 335 470	
150 - 1500	40	1 ¼	32	198 335 455	198 335 470	
250 - 2500	40	1 ¼	32	198 335 455	198 335 470	
200 - 2000	50	1 ½	40	198 335 456	198 335 471	
300 - 3000	50	1 ½	40	198 335 457	198 335 471	
600 - 6000	50	1 ½	40	198 335 457	198 335 471	
600 - 6000	63	2	50	198 335 457	198 335 471	
1000 - 10000	63	2	50	198 335 457	198 335 471	
1500 - 15000	63	2	50	198 335 458	198 335 472	
2000 - 20000	75	2 ½	65	198 335 459	198 335 473	
3000 - 30000	75	2 ½	65	198 335 459	198 335 473	
8000 - 60000	75	2 ½	65	198 335 460	198 335 474	

Guiding rod (10)

Model:

- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all metering ranges)

Scale range [l/h]	d [mm]	Inch	DN [mm]	Peek Code	Stainless steel Code	
1500 - 15000	63	2	50	198 335 985	198 335 098	
2000 - 20000	75	2 ½	65	198 335 985	198 335 098	
3000 - 30000	75	2 ½	65	198 335 985	198 335 098	
8000 - 80000	75	2 ½	65	198 335 985	198 335 098	

Insert guiding rod PVDF (for 10)

Model:

- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all metering ranges)

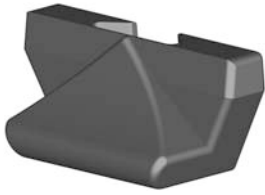
Scale range [l/h]	d [mm]	Inch	DN [mm]	Insert guiding rod Code	
1500 - 15000	63	2	50	198 335 986	
2000 - 20000	75	2 ½	65	198 335 987	
3000 - 30000	75	2 ½	65	198 335 987	
8000 - 80000	75	2 ½	65	198 335 987	

Spare parts

Flow value indicator PS (8)

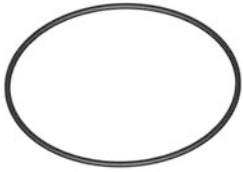
Model:

- For all dimensions type 335/350



d [mm]	Inch	DN [mm]	Flow value indicator Code	
32	1	25	198 335 990	
40	1 ¼	32	198 335 990	
50	1 ½	40	198 335 990	
63	2	50	198 335 990	
75	2 ½	65	198 335 990	

O-rings (7)



d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
32	1	25	748 410 008	749 410 008	
40	1 ¼	32	748 410 009	749 410 009	
50	1 ½	40	748 410 010	749 410 010	
63	2	50	748 410 011	749 410 011	
75	2 ½	65	748 410 014	749 410 014	

Union nut (5)

Union nut not useable for the special version with taper tube in PVDF



d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	
32	1	25	721 690 008	723 690 008	729 690 408	727 690 408	735 690 408	
40	1 ¼	32	721 690 009	723 690 009	729 690 409	727 690 409	735 690 409	
50	1 ½	40	721 690 010	723 690 010	729 690 410	727 690 410	735 690 410	
63	2	50	721 690 011	723 690 011	729 690 411	727 690 411	735 690 411	
75	2 ½	65	198 806 423	-	-	198 806 421	198 806 422	

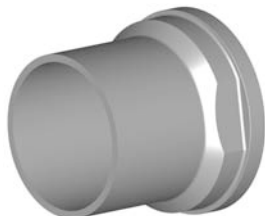
Union end / Socket (6)

For DN65 PVDF only spigot



d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	
32	1	25	721 600 108	723 600 108	729 600 108	727 600 108	735 600 108	
40	1 ¼	32	721 600 109	723 600 109	729 600 109	727 600 109	735 600 109	
50	1 ½	40	721 600 110	723 600 110	729 600 110	727 600 110	735 600 110	
63	2	50	721 600 111	723 600 111	729 600 111	727 600 111	735 600 111	
75	2 ½	65	721 600 112	700 253 867	700 246 112	700 253 866	-	

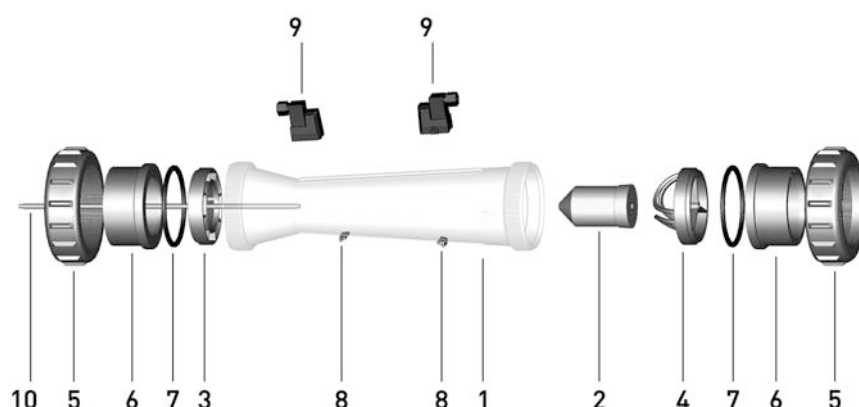
Union end / Spigot (6)



d [mm]	Inch	DN [mm]	PP-H Code	PVDF Code	
32	1	25	727 608 508	735 608 608	
40	1 ¼	32	727 608 509	735 608 609	
50	1 ½	40	727 608 510	735 608 610	
63	2	50	727 608 511	735 608 611	
75	2 ½	65	700 256 401	175 483 013	

Spare parts

Variable area flow meter type 350



Taper tube with water scale (1)

- PVC-U transparent

Scale range [l/h]	d [mm]	Inch	DN [mm]	PVC-U transpar- ent Code	Polyamid Code	Polysulfon Code	
50 - 500	32	1	25	198 350 055	198 350 070	198 350 085	
100 - 1000	32	1	25	198 350 056	198 350 071	198 350 086	
150 - 1500	40	1 ¼	32	198 350 057	198 350 072	198 350 087	
250 - 2500	40	1 ¼	32	198 350 058	198 350 073	198 350 088	
200 - 2000	50	1 ½	40	198 350 059	198 350 074	198 350 089	
300 - 3000	50	1 ½	40	198 350 060	198 350 075	198 350 090	
600 - 6000	50	1 ½	40	198 350 061	198 350 076	198 350 091	
600 - 6000	63	2	50	198350062*	198 350 077	198 350 092	
1000 - 10000	63	2	50	198350063*	198 350 078	198 350 093	
1500 - 15000	63	2	50	198350064*	198 350 079	198 350 094	
2000 - 20000	75	2 ½	65	198350065*	198 350 080	198 350 095	
3000 - 30000	75	2 ½	65	198350066*	198 350 081	198 350 096	
8000 - 60000	75	2 ½	65	198350067*	198 350 082	198 350 097	

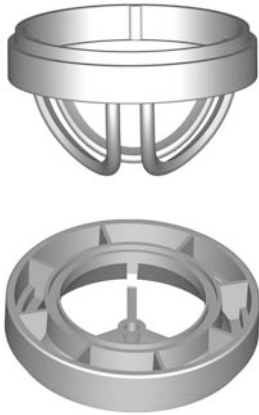
Taper tube without scale (1)

- PVC-U transparent

Scale range [l/h]	d [mm]	Inch	DN [mm]	PVC-U transpar- ent Code	Polyamid Code	Polysulfon Code	
50 - 500	32	1	25	198 350 255	198 350 270	198 350 285	
100 - 1000	32	1	25	198 350 256	198 350 271	198 350 286	
150 - 1500	40	1 ¼	32	198 350 257	198 350 272	198 350 287	
250 - 2500	40	1 ¼	32	198 350 258	198 350 273	198 350 288	
200 - 2000	50	1 ½	40	198 350 259	198 350 274	198 350 289	
300 - 3000	50	1 ½	40	198 350 260	198 350 275	198 350 290	
600 - 6000	50	1 ½	40	198 350 261	198 350 276	198 350 291	
600 - 6000	63	2	50	198350262*	198 350 277	198 350 292	
1000 - 10000	63	2	50	198350263*	198 350 278	198 350 293	
1500 - 15000	63	2	50	198350264*	198 350 279	198 350 294	
2000 - 20000	75	2 ½	65	198350265*	198 350 280	198 350 295	
3000 - 30000	75	2 ½	65	198350266*	198 350 281	198 350 296	
8000 - 60000	75	2 ½	65	198350267*	198 350 282	198 350 297	

Spare parts

Insert PVDF (3,4)



Scale range [l/h]	d [mm]	Inch	DN [mm]	top (4) Code	bottom (3) Code	
50 - 500	32	1	25	198 335 970	198 335 977	
100 - 1000	32	1	25	198 335 970	198 335 977	
150 - 1500	40	1 ¼	32	198 335 971	198 335 978	
250 - 2500	40	1 ¼	32	198 335 971	198 335 978	
200 - 2000	50	1 ½	40	198 335 972	198 335 979	
300 - 3000	50	1 ½	40	198 335 972	198 335 979	
600 - 6000	50	1 ½	40	198 335 972	198 335 979	
600 - 6000	63	2	50	198 335 973	198 335 980	
1000 - 10000	63	2	50	198 335 973	198 335 980	
1500 - 15000	63	2	50	198 335 974	198 335 982	
2000 - 20000	75	2 ½	65	198 335 975	198 335 981	
3000 - 30000	75	2 ½	65	198 335 975	198 335 981	
8000 - 60000	75	2 ½	65	198 335 975	198 335 981	

Float PVDF (2)



Scale range [l/h]	d [mm]	Inch	DN [mm]	Without magnet Code	With magnet Code	
50 - 500	32	1	25	198 335 455	198 335 470	
100 - 1000	32	1	25	198 335 455	198 335 470	
150 - 1500	40	1 ¼	32	198 335 455	198 335 470	
250 - 2500	40	1 ¼	32	198 335 455	198 335 470	
200 - 2000	50	1 ½	40	198 335 456	198 335 471	
300 - 3000	50	1 ½	40	198 335 457	198 335 471	
600 - 6000	50	1 ½	40	198 335 457	198 335 471	
600 - 6000	63	2	50	198 335 457	198 335 471	
1000 - 10000	63	2	50	198 335 457	198 335 471	
1500 - 15000	63	2	50	198 335 458	198 335 472	
2000 - 20000	75	2 ½	65	198 335 459	198 335 473	
3000 - 30000	75	2 ½	65	198 335 459	198 335 473	
8000 - 60000	75	2 ½	65	198 335 460	198 335 474	

Guiding rod (10)

Model:

- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all metering ranges)



Scale range [l/h]	d [mm]	Inch	DN [mm]	Peek Code	Stainless steel Code	
1500 - 15000	63	2	50	198 350 980	198 350 098	
2000 - 20000	75	2 ½	65	198 350 980	198 350 098	
3000 - 30000	75	2 ½	65	198 350 980	198 350 098	
8000 - 60000	75	2 ½	65	198 350 980	198 350 098	

Insert guiding rod PVDF (for 10)

Model:

- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all metering ranges)



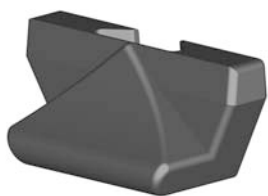
Scale range [l/h]	d [mm]	Inch	DN [mm]	Insert guiding rod Code	
1500 - 15000	63	2	50	198 335 986	
2000 - 20000	75	2 ½	65	198 335 987	
3000 - 30000	75	2 ½	65	198 335 987	
8000 - 60000	75	2 ½	65	198 335 987	

Spare parts

Flow value indicator PS (8)

Model:

- For all dimensions type 335/350



d [mm]	Inch	DN [mm]	Flow value indicator Code	
32	1	25	198 335 990	
40	1 ¼	32	198 335 990	
50	1 ½	40	198 335 990	
63	2	50	198 335 990	
75	2 ½	65	198 335 990	

O-rings (7)



d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
32	1	25	748 410 008	749 410 008	
40	1 ¼	32	748 410 009	749 410 009	
50	1 ½	40	748 410 010	749 410 010	
63	2	50	748 410 011	749 410 011	
75	2 ½	65	748 410 014	749 410 014	

Union nut (5)

Union nut not useable for the special version with taper tube in PVDF



d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	
32	1	25	721 690 008	723 690 008	729 690 408	727 690 408	735 690 408	
40	1 ¼	32	721 690 009	723 690 009	729 690 409	727 690 409	735 690 409	
50	1 ½	40	721 690 010	723 690 010	729 690 410	727 690 410	735 690 410	
63	2	50	721 690 011	723 690 011	729 690 411	727 690 411	735 690 411	
75	2 ½	65	198 806 423	-	-	198 806 421	198 806 422	

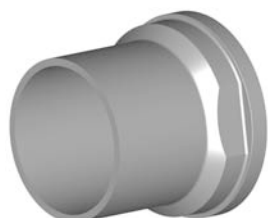
Union end / Socket (6)

For DN65 PVDF only spigot



d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	
32	1	25	721 600 108	723 600 108	729 600 108	727 600 108	735 600 108	
40	1 ¼	32	721 600 109	723 600 109	729 600 109	727 600 109	735 600 109	
50	1 ½	40	721 600 110	723 600 110	729 600 110	727 600 110	735 600 110	
63	2	50	721 600 111	723 600 111	729 600 111	727 600 111	735 600 111	
75	2 ½	65	721 600 112	700 253 867	700 246 112	700 253 866	-	

Union end / Spigot (6)



d [mm]	Inch	DN [mm]	PP-H Code	PVDF Code	
32	1	25	727 608 508	735 608 608	
40	1 ¼	32	727 608 509	735 608 609	
50	1 ½	40	727 608 510	735 608 610	
63	2	50	727 608 511	735 608 611	
75	2 ½	65	700 256 401	175 483 013	

Spare part for variable area flow meter

table continued next page

Spare parts

SK50-SK73/SK500-SK730

Short version taper tube Polysulfone

Type	d [mm]	DN [mm]	Code	
SK 50 / 500	16	10	198 801 341	
SK 51 / 510	16	10	198 801 342	
SK 52 / 520	16	10	198 801 343	
SK 60 / 600	20	15	198 801 449	
SK 61 / 610	20	15	198 801 450	
SK 62 / 620	20	15	198 801 451	
SK 70 / 700	32	25	198 801 445	
SK 71 / 710	32	25	198 801 338	
SK 72 / 720	32	25	198 801 339	
SK 73 / 730	32	25	198 801 340	

Short version taper tube PVC-U transparent

Type	d [mm]	DN [mm]	Code	
SK 50 / 500	16	10	198 803 790	
SK 51 / 510	16	10	198 803 791	
SK 52 / 520	16	10	198 803 792	
SK 60 / 600	20	15	198 803 793	
SK 61 / 610	20	15	198 803 794	
SK 62 / 620	20	15	198 803 795	
SK 70 / 700	32	25	198 803 796	
SK 71 / 710	32	25	198 803 797	
SK 72 / 720	32	25	198 803 798	
SK 73 / 730	32	25	198 803 799	

Short version float PVDF Without magnet

Type	d [mm]	DN [mm]	Code	
SK 50 / 51 / 52	16	10	198 806 219	
SK 60 / 61 / 62	20	15	198 806 220	
SK 70 / 71 / 72 / 73	32	25	198 806 221	

Short version float PVDF With magnet bistable

Type	d [mm]	DN [mm]	Code	
SK 500 / 510 / 520	16	10	198 806 222	
SK 600 / 610 / 620	20	15	198 806 223	
SK 700 / 710 / 720 / 730	32	25	198 806 224	

Short version float PTFE Without magnet

Type	d [mm]	DN [mm]	Code	
SK 73	32	25	198 807 166	

Spare parts

Short version top insert PVDF

Type	d [mm]	DN [mm]	Code	
SK 50 / 500; 51 / 510; 52 / 520	16	10	198 807 188	
SK 60 / 600; 61 / 610; 62 / 620	20	15	198 807 187	
SK 70 / 700; 71 / 710; 72 / 720; 73 / 730	32	25	198 807 182	

Automation and actuators

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Automation and actuators

Pneumatic rotary actuators PA

Pneumatic actuator type PA11/PA21

Fail safe to close (FC)



Type	DN-DN [mm]	Inch [inch]	Code	
PA 11 FC	10 - 25	$\frac{3}{8}$ - 1	198 150 127	
PA 21 FC	32 - 50	1 $\frac{1}{4}$ - 2	198 150 130	

Fail safe to open (FO)



Type	DN-DN [mm]	Inch [inch]	Code	
PA 11 FO	10 - 25	$\frac{3}{8}$ - 1	198 150 128	
PA 21 FO	32 - 50	1 $\frac{1}{4}$ - 2	198 150 131	

Double action (DA)



Type	DN-DN [mm]	Inch [inch]	Code	
PA 11 DA	10 - 25	$\frac{3}{8}$ - 1	198 150 129	
PA 21 DA	32 - 50	1 $\frac{1}{4}$ - 2	198 150 132	

Fail safe to close (FC) with stroke limiter



Type	DN-DN [mm]	Inch [inch]	Code	
PA 11 FC	10 - 25	$\frac{3}{8}$ - 1	198 150 144	
PA 21 FC	32 - 50	1 $\frac{1}{4}$ - 2	198 150 147	

Fail safe to open (FO) with stroke limiter



Type	DN-DN [mm]	Inch [inch]	Code	
PA 11 FO	10 - 25	$\frac{3}{8}$ - 1	198 150 145	
PA 21 FO	32 - 50	1 $\frac{1}{4}$ - 2	198 150 148	

Double action (DA) with stroke limiter



Type	DN-DN [mm]	Inch [inch]	Code	
PA 11 DA	10 - 25	$\frac{3}{8}$ - 1	198 150 146	
PA 21 DA	32 - 50	1 $\frac{1}{4}$ - 2	198 150 149	

Pneumatic actuator type PA30 PA90

Fail safe to close/fail safe to open (FC/FO)

* Only valid for butterfly valve type 240, 241, 242 and ball valve type 230 - 235



Type	hard anodized Code	nickel plated Code	hard anodized with stroke limiter Code	epoxy coated Code	
PA 30 FC/FO	198 800 757	198 800 034	-	198 811 194	
* PA 30 FO	198 811 025	-	-	-	
PA 35 FC/FO	198 800 037	198 800 052	-	198 800 029	
* PA 35 FO	198 811 026	-	-	-	
PA 40 FC/FO	198 800 728	198 800 004	198 800 017	198 800 025	
* PA 40 FO	198 811 027	-	-	-	

table continued next page

Automation and actuators

Type	hard anodized Code	nickel plated Code	hard anodized with stroke limiter Code	epoxy coated Code	
PA 45 FC/FO	198 800 039	198 800 054	-	-	
* PA45 FO	198 811 028	-	-	-	
PA 50 FC/FO	198 800 729	198 800 005	198 800 018	198 800 026	
* PA50 FO	198 811 029	-	-	-	
PA 55 FC/FO	198 800 041	198 800 056	-	198 811 190	
* PA 55 FO	198 811 030	-	-	-	
PA 60 FC/FO	198 800 730	198 800 006	198 800 019	-	
PA 65 FC/FO	198 800 043	198 800 058	-	-	
PA 70 FC/FO	198 800 731	198 800 007	198 800 020	198 800 028	
PA 70 FO	198 811 198	-	-	-	
PA 75 FC/FO	198 800 045	198 800 060	-	-	
PA 80 FC/FO	198 800 047	198 800 062	-	-	

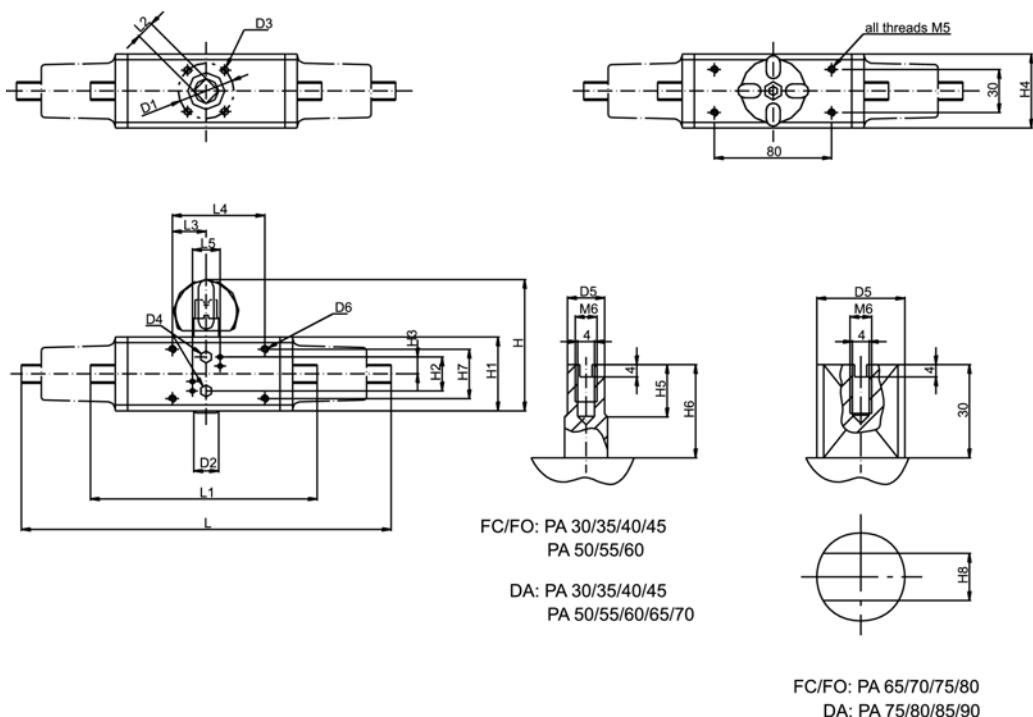
Type		D1 [mm]	D2 [mm]	D3[M] [mm]	D4 [inch]	D5 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]	H1 [mm]
PA 30 FC/FO	F04	42	30	M5x9		10	276	11	35	70	32	102	70
* PA 30 FO	F04	42	30	M5x9	⅛	10	276	11	35	70	32	102	70
PA 35 FC/FO	F05	50	35	M6x11		12	326	14	35	70	32	111	78
* PA 35 FO	F05	50	35	M6x11	⅛	12	326	14	35	70	32	111	78
PA 40 FC/FO	F05	50	35	M6x11		12	370	14	35	70	32	129	86
* PA 40 FO	F05	50	35	M6x11	⅛	12	370	14	35	70	32	129	86
PA 45 FC/FO	F07	70	55	M8x15	⅛	15	411	17	35	70	32	139	96
* PA45 FO	F07	70	55	M8x15	⅛	15	411	17	35	70	32	139	96
PA 50 FC/FO	F07	70	55	M8x15		15	423	17	35	70	32	149	106
* PA50 FO	F07	70	55	M8x15	⅛	15	423	17	35	70	32	149	106
PA 55 FC/FO	F10	102	70	M10x17		19	452	22	35	70	32	161	118
* PA 55 FO	F10	102	70	M10x17	⅛	19	452	22	35	70	32	161	118
PA 60 FC/FO	F10	102	70	M10x17	⅛	19	503	22	35	70	32	173	130
PA 65 FC/FO	F12	125	85	M12x21	¼		648	27			32	191	148
PA 70 FC/FO	F12	125	85	M12x21			663	27			32	196	153
PA 70 FO	F12	125	85	M12x21	¼		663	27			32	196	153
PA 75 FC/FO	F14	140	100	M16x25	¼		824	36			32	229	186
PA 80 FC/FO	F14	140	100	M16x25	¼		918	36			32	241	198

Type	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]	
PA 30 FC/FO	21	18	65	13	20	36		
* PA 30 FO	21	18	65	13	20	36		
PA 35 FC/FO	21	18	72	13	20	36		
* PA 35 FO	21	18	72	13	20	36		
PA 40 FC/FO	25	21	80	13	30	36		
* PA 40 FO	25	21	80	13	30	36		
PA 45 FC/FO	25	21	90	16	30	36		
* PA45 FO	25	21	90	16	30	36		
PA 50 FC/FO	25	26	100	17	30	36		
* PA50 FO	25	26	100	17	30	36		
PA 55 FC/FO	25	25	112	19	30	36		
* PA 55 FO	25	25	112	19	30	36		
PA 60 FC/FO	25	32	124	19	30	36		
PA 65 FC/FO	24	34	137				22	
PA 70 FC/FO	24	38	145				24	

table continued next page

Automation and actuators

Type	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]	
PA 70 FO	24	38	145				24	
PA 75 FC/FO	24	43	166				27	
PA 80 FC/FO	24	44	180				32	



Double acting (DA)

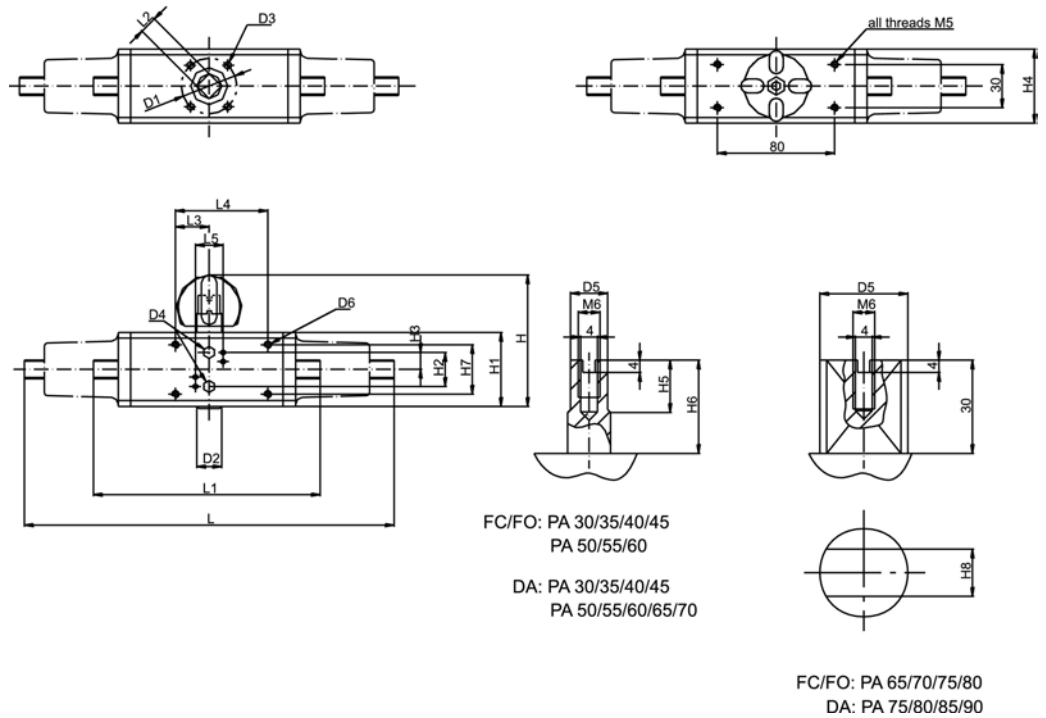
Type	hard anodized Code	
PA 30 DA	198 800 737	
PA 35 DA	198 800 758	
PA 40 DA	198 800 759	
PA 45 DA	198 800 040	
PA 50 DA	198 800 733	
PA 55 DA	198 800 042	
PA 60 DA	198 800 734	
PA 65 DA	198 800 044	
PA 70 DA	198 800 735	
PA 75 DA	198 800 046	
PA 80 DA	198 800 048	
PA 85 DA	198 800 050	
PA 90 DA	198 800 051	

Type		D1	D2	D3[M]	D4	D5	L1	L2	L3	L4	L5	H	H1	
		[mm]	[mm]	[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
PA 30 DA	F03	36	25	M5x9	⅝	9	177	9	35	70		92	60	
PA 35 DA	F03	42	30	M5x9	⅝	10	190	11	35	70		98	66	
PA 40 DA	F05	42	30	M5x9	⅝	10	198	11	35	70		102	70	
PA 45 DA	F05	50	35	M6x11	⅝	12	235	14	35	70		111	78	
PA 50 DA	F05	50	35	M6x11	⅝	12	250	14	35	70		129	86	
PA 55 DA	F07	70	55	M8x15	⅞	15	279	17	35	70		139	96	
PA 60 DA	F07	70	55	M8x15	⅞	15	341	17	35	70		149	106	
PA 65 DA	F10	102	70	M10x17	⅞	19	350	22	35	70		161	118	
PA 70 DA	F10	102	70	M10x17	⅞	19	381	22	35	70		173	130	
PA 75 DA	F12	125	85	M12x21	¾		416	27			32	191	148	
PA 80 DA	F12	125	85	M12x21	¾		466	27			32	197	153	
PA 85 DA	F14	140	100	M16x25	¾		555	36			32	229	186	
PA 90 DA	F14	140	100	M16x25	¾		581	36			32	241	198	

table continued next page

Automation and actuators

Type	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]	
PA 30 DA	25	12	55	10	20	36		
PA 35 DA	25	13	60	13	20	36		
PA 40 DA	21	18	65	13	20	36		
PA 45 DA	21	18	72	13	20	36		
PA 50 DA	25	21	80	13	30	36		
PA 55 DA	25	21	90	16	30	36		
PA 60 DA	25	26	100	17	30	36		
PA 65 DA	25	25	112	19	30	36		
PA 70 DA	25	32	124	19	30	36		
PA 75 DA	24	34	137				22	
PA 80 DA	24	38	145				24	
PA 85 DA	24	43	166				27	
PA 90 DA	24	44	180				32	



Automation and actuators

Accessories for pneumatic rotary actuators

For pneumatic actuators type PA30-PA55 and PA11/21

Namur connecting plate

- PA30 - PA55 FC/FO, PA30 - PA65 DA



DN [mm]	Series PA11/21 Code	Series PA30-55 Code	
15	199 190 378	199 190 275	
20	199 190 378	199 190 275	
25	199 190 378	199 190 275	
32	199 190 378	199 190 275	
40	199 190 378	199 190 275	
50	199 190 378	199 190 275	

For pneumatic actuators type PA11 - PA90

Namur mounting flange



No	Code	
3	199 190 281	

Automation and actuators

Electric actuators

Electric actuator type EA11



Note:

F05 (WS11/14) per EN ISO 5211 with adapter 198.000.587

Voltage	Code	
100-230 V~ 24 V=/ ~	198 150 180 198 150 181	

Electric actuator type EA21



Note:

F05 (WS11/14) per EN ISO 5211 with adapter 198.000.587

Voltage	Code	
100-230 V~ 24 V=/ ~	198 150 182 198 150 183	

Electric actuator type EA31



Note:

F07 (WS 17) per EN ISO 5211

Voltage	Code	
100-230 V~ 24 V=/ ~	198 150 184 198 150 185	

Electric actuator type EA42



Note:

F07 (WS 22) per EN ISO 5211

Voltage	Code	
100-230 V~ 24 V=/ ~	198 150 186 198 150 187	

Automation and actuators

Accessories for electric actuators

For electric actuators

Type EA11/EA21/EA31/EA42

Heating element



Voltage	Code	
24 V=	199 190 086	



Fail safe return incl. battery kit

Voltage	Code	
24 V=	199 190 085	



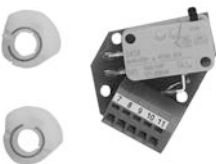
Heating element + fail safe return incl. battery kit

Voltage	Code	
24 V=	199 190 087	



Battery kit (spare)

Voltage	Code	
24 V=	198 151 317	



Limit switch kit with mechanical limit switches AgNi

Voltage	Code	
250 V ~6 A	199 190 092	



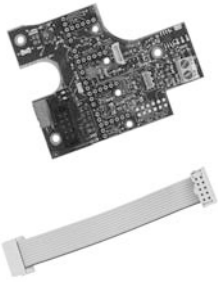
For electric actuators
Type EA21/EA31/EA42

Testing adapter kit

Code	
198 151 426	

Automation and actuators

Monitoring print



Code

199 190 099



Cycle time extension

Model:

- Monitoring print required

Code

199 190 080



Cycle time monitoring

Model:

- Monitoring print required

Code

199 190 082



Cycle counter

Model:

- Monitoring print required

Code

199 190 083



Motor current monitoring

Model:

- Monitoring print required

Code

199 190 081



Position signalization

Model:

- Enables a 4... 20mA feedback signal
- Must be used with either the PE25 positioner or the monitoring print

Code

199 190 084

Automation and actuators

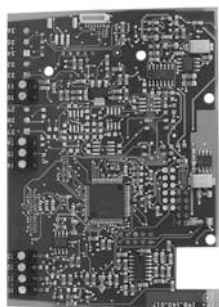
Positioner PE25

Model:

- Positioner must use position signalization

** galvanic isolated set value inputs

* not galvanic isolated set value inputs



Voltage	Code	
* 24 V=	199 190 100	
** 24 V=	199 190 101	



Limit switch kit with gold contacts Au

Voltage	Code	
30 V=, 100mA	199 190 093	



Limit switch kit with inductive switches PNP

Voltage	Code	
5-30 V= 0,1 A	199 190 095	



Assembly kit for 4 limit switches

Model:

- Limit switches need to be ordered separately

Code	
199 190 097	



Limit switch kit with inductive switches NPN

Voltage	Code	
5-30 V= 0,1 A	199 190 096	



Limit switch kit with mechanical limit switches Middle position

Voltage	Code	
4-30 V= 1-100 mA	199 190 094	

Automation and actuators

Accessories for pneumatic stroke actuators

For diaphragm valve type DIASTAR

Min./max. stroke limiter/manual override



DN-DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO/DA Code	
- 15	199 190 381	199 190 382	199 190 381	
- 20	199 190 382	199 190 382	199 190 382	
- 25	199 190 382	199 190 383	199 190 382	
- 32	199 190 383	199 190 384	199 190 383	
- 40	199 190 384	199 190 385	199 190 384	
- 50	199 190 384	199 190 385	199 190 384	
65 - 80		199 190 318	199 190 318	
* 100 - 150		199 190 319	199 190 319	

Automation and actuators

Pilot valves

Solenoid pilot valve type PV2000

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

2 x 3/2-way valve

Model:

- lockable manual override



No	Voltage	Code	
1	24V/DC 100%	199 190 435	

1 x 5/2-way valve



No	Voltage	Code	
2	24 V/DC 100%	199 190 436	

Connection module with D-sub connector



No	Code	
3	199 190 424	

End module



No	Code	
4	199 190 426	

Connection module AS-interface



No	Code	
1	199 190 430	

Connection module profibus



No	Code	
1	199 190 431	

Automation and actuators

Connection module with bus interface



No	Code	
2	199 190 425	

Accessories to type PV2000

Silencer 8mm

Code	
199 190 427	

Plug (white)

d [mm]	Code	
8	199 190 428	
6	199 190 429	

D-Sub connector 25 poles With connection cable

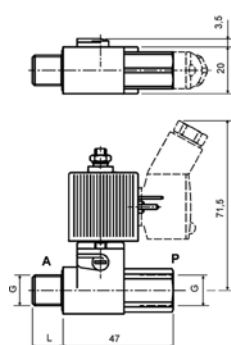
Cable length [m]	Code	
1.50	199 190 432	
3.00	199 190 433	
5.00	199 190 434	

Solenoid pilot valve type PV94

Pilot valve 3/2-ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/8
- Port A actuator connection G 1/8
- With connector plug form C
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass



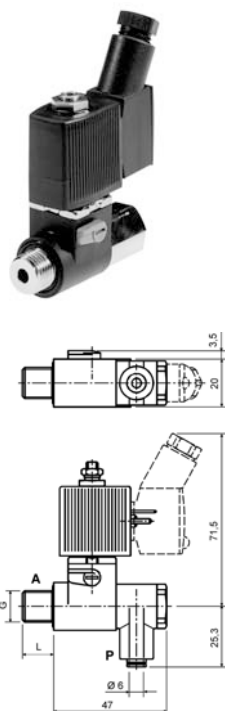
Voltage	DN [mm]	Com- pressed air con- nection P	Actuator connec- tion	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.2	G 1/8	G 1/8	10	48	199 190 498	
24 V, 50-60 Hz	1.2	G 1/8	G 1/8	10	48	199 190 499	
110 V, 50-60 Hz	1.2	G 1/8	G 1/8	10	48	199 190 500	
230 V, 50-60 Hz	1.2	G 1/8	G 1/8	10	48	199 190 501	

Automation and actuators

Pilot valve 3/2-ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection tube push-in 6mm
- Port A actuator connection G 1/8
- With connector plug form C
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass

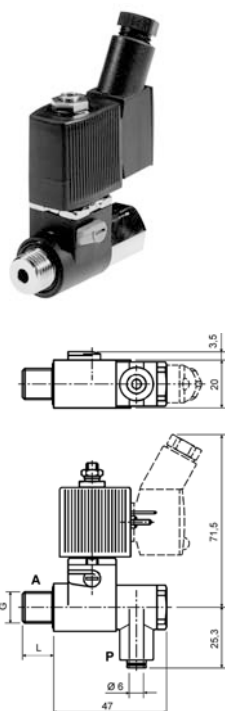


Voltage	DN [mm]	Com-pressed air con- nection P	Actuator connec- tion	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.2	push-in	G 1/8	10	48	199 190 510	
24 V, 50-60 Hz	1.2	push-in	G 1/8	10	48	199 190 511	
110 V, 50-60 Hz	1.2	push-in	G 1/8	10	48	199 190 512	
230 V, 50-60 Hz	1.2	push-in	G 1/8	10	48	199 190 513	

Pilot valve 3/2-ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection NPT 1/8
- Port A actuator connection G 1/8
- With connector plug form C
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass



Voltage	DN [mm]	Com-pressed air con- nection P	Actuator connec- tion	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.2	NPT 1/8	G 1/8	10	48	199 190 546	
24 V AC	1.2	NPT 1/8	G 1/8	10	48	199 190 561	
110 V, 50-60 Hz	1.2	NPT 1/8	G 1/8	10	48	199 190 547	

Accessory

Model:

- Cable plug to DIN EN 175301-803 (DIN 43 650) form C



Voltage	Version	NBR Code	
0-250 V	no circuitry	199 190 518	
0-24 V	with LED	199 190 519	
0-24 V	with LED and varistor	199 190 520	
0-24 V	with rectifier LED and varistor	199 190 521	
200-240 V	with LED	199 190 522	
200-240 V	with LED and varistor	199 190 523	

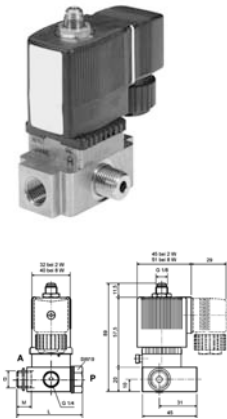
Automation and actuators

Solenoid pilot valve type PV95

Pilot valve 3/2-ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/8
- With connector plug form A
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material: brass
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC

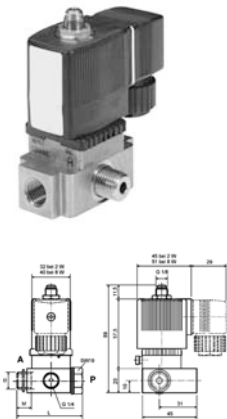


Voltage	DN [mm]	Com-pressed air con- nection P	Actuator connec- tion	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	2.0	G 1/4	G 1/8	10	120	199 190 532	
24 V, 50-60 Hz	2.0	G 1/4	G 1/8	10	120	199 190 533	
110 V, 50-60 Hz	2.0	G 1/4	G 1/8	10	120	199 190 534	
230 V, 50-60 Hz	2.0	G 1/4	G 1/8	10	120	199 190 535	

Pilot valve 3/2-ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection NPT 1/8
- Port A actuator connection G 1/4
- With connector plug form A
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material: brass
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC



Voltage	DN [mm]	Com-pressed air con- nection P	Actuator connec- tion	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.5	NPT 1/8	G 1/4	10	120	199 190 554	
110 V, 50-60 Hz	1.5	NPT 1/8	G 1/4	10	120	199 190 555	

Accessory

Model:

- Cable plug to DIN EN 175301-803 (DIN 43 650) form A

Voltage	Version	NBR Code	
0-250 V	no circuitry	199 190 540	
0-24 V	with LED	199 190 541	
0-24 V	with LED and varistor	199 190 542	
0-24 V	with rectifier LED and varistor	199 190 543	
200-240 V	with LED	199 190 544	
200-240 V	with LED and varistor	199 190 545	

Pilot valve type 5470

- to pneumatic actuators DA (Double acting)
- Version with NAMUR connection
- Circuit function: 4/2-way valve, in rest position pressure inlet 1 connected to outlet 2, outlet 4 exhausted
- Valve material: polyamid

table continued next page

Automation and actuators

- Electrical connection: cable plug

Pilot valve 4/2-ways

- For AC 50-60 Hz and DC



Voltage	DN [mm]	NBR Code	
230 V, AC/DC	4	199 190 302	
115 V, AC/DC	4	199 190 303	
24 V, AC/DC	4	199 190 304	

Pilot valve type MNL532

Model:

- With NAMUR connection and two silencers/throttle screws

Mode of action:

- 3/2-way valve, in rest position pressure inlet 1 closed, outlet 3 exhausted
- 5/2-way valve, in rest position pressure inlet 1 connected to outlet 4, outlet 3 exhausted
- Material of body: Aluminum
- **to pneumatic actuators**
- Electrical connection: cable plug

Pilot valve 3/2-5/2-ways



Voltage	DN [mm]	Inch	NBR Code	
230 V, AC	5	1/8	199 190 360	
110 V, AC	5	1/8	199 190 359	
48 V, AC	5	1/8	199 190 361	
24 V, AC	5	1/8	199 190 358	
24 V, DC	5	1/8	199 190 357	

Automation and actuators

Position indicator

For butterfly valve type 037M/038M

With electric position indicator

- Limit switch box and hand lever included

Limit switch box with 2 auxiliary switches

- Solution for PNP, NPN, NAMUR on request



d-d [mm]	DN-DN [mm]	Inch	Code	
63 - 90	50 - 80	2-3	198 151 341	
110 - 110	100 - 100	4	198 151 342	
140 - 140	125 - 125	5	198 151 343	
160 - 225	150 - 200	6-8	198 151 344	

For actuator units pneumatic type PA11 - PA90

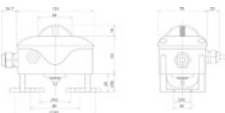
Namur mounting flange



No	Code	
3	199 190 281	

Limit switch box with 2 auxiliary switches

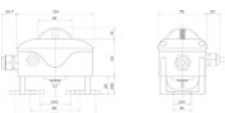
- Including namur mounting flange



Voltage	Code	
250 V ~/10 A	199 190 282	

Limit switch box with 2 inductive auxiliary switches NPN With luminous diode

- Including namur mounting flange



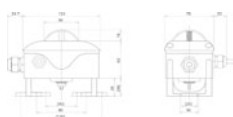
Voltage	Code	
10...30 V/ 0.1 A	199 190 283	

Automation and actuators

Limit switch box with 2 inductive auxiliary switches PNP With luminous diode

- Including namur mounting flange

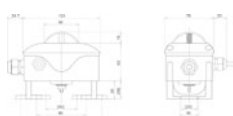
Voltage	Code	
10...30 V/ 0.1 A	199 190 284	



Limit switch box with 2 inductive auxiliary switches Namur Eexi (intrinsically safe)

- Including namur mounting flange

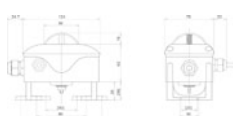
Voltage	Code	
5-15 V	199 190 285	



Limit switch box with 2 auxiliary switches Eexd

- Including namur mounting flange

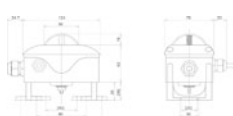
Voltage	Code	
250 V ~/5 A	199 190 286	



Limit switch box with 2 auxiliary switches With gold contact

- Including namur mounting flange

Voltage	Code	
30 V =/ 1-100 mA	199 190 287	



For diaphragm valve type DIASTAR

Electric position indicator with 2 auxiliary switches Ag Ni

- Connection: Plug

DN-DN [mm]	Inch [inch]	Type	Voltage	Code	
15 - 50	½ - 2	ER 52-1	250 V~ 6 A	199 190 305	
65 - 150	2 ½ - 6	ER 53-1	250 V~ 6 A	199 190 293	



Automation and actuators

Electric position indicator with 2 auxiliary switches With gold contact

- Connection: Plug



DN-DN [mm]	Inch [inch]	Type	Voltage	Code	
15 - 50	½ - 2	ER 52-2	4-30 V= 1-100 mA	199 190 306	
65 - 150	2 ½ - 6	ER 53-2	4-30 V= 1-100 mA	199 190 297	

Electric position indicator with 2 inductive switches NPN

- Connection: Plug



DN-DN [mm]	Inch [inch]	Type	Voltage	Code	
15 - 50	½ - 2	ER 52-3	5-30 V= 100 mA	199 190 307	
65 - 150	2 ½ - 6	ER 53-3	10-30 V= 100 mA	199 190 294	

Electric position indicator with 2 inductive switches PNP

- Connection: Plug



DN-DN [mm]	Inch [inch]	Type	Voltage	Code	
15 - 50	½ - 2	ER 52-4	5-30 V= 100 mA	199 190 308	
65 - 150	2 ½ - 6	ER 53-4	10-30 V= 100 mA	199 190 295	

Electric position indicator with 2 inductive switches Namur Eexi (intrinsically safe)

- Connection: Plug



DN-DN [mm]	Inch [inch]	Type	Voltage	Code	
15 - 50	½ - 2	ER 52-5	8 V=	199 190 309	
65 - 150	2 ½ - 6	ER 53-5	8 V=	199 190 296	

Electric position indicator with 2 auxiliary switches Eexd

- Connection: Cable, 2 m



DN-DN [mm]	Inch [inch]	Type	Voltage	Code	
15 - 50	½ - 2	ER 52-6	250 V ~ 5 A	199 190 405	
65 - 150	2 ½ - 6	ER 53-6	250 V ~ 5 A	199 190 298	

Adapter complete

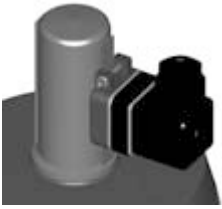
- For combination Electric Position Indicator / Lift limiter / Manual override



DN-DN [mm]	Type	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO/DA Code	
- 15	ER 52	199 190 387	199 190 387	199 190 387	
- 20	ER 52	199 190 387	199 190 387	199 190 387	
- 25	ER 52	199 190 387	199 190 388	199 190 387	
- 32	ER 52	199 190 388	199 190 389	199 190 388	
- 40	ER 52	199 190 389	199 190 389	199 190 389	
- 50	ER 52	199 190 389	199 190 389	199 190 389	
65 - 150	ER 53		199 190 310	199 190 310	

Automation and actuators

Electric position indicator with reed contact Type ER-55 for Diastar DN 15-150



For one position open or closed
Furder position indicator with limit contact (198 804 875)
Connection: plug
Voltage: 250V ~ 200 mA

DN [mm]	Type	Ten/028 FC Code	Ten/Sixteen/025 FC/FO/DA Code	
15	ER 55-1	199 190 462	199 190 462	
20	ER 55-1	199 190 462	199 190 462	
25	ER 55-1	199 190 462	199 190 462	
32	ER 55-1	199 190 462	199 190 462	
40	ER 55-1	199 190 462	199 190 462	
50	ER 55-1	199 190 462	199 190 462	
65	ER 55-2		199 190 464	
80	ER 55-2		199 190 464	
100	ER 55-2		199 190 464	
150	ER 55-2		199 190 464	

Limit contact to ER55



Code	
198 804 875	

Automation and actuators

Controllers

Digital electro-pneumatic positioner

- Other versions and accessories on request

Without feedback signal

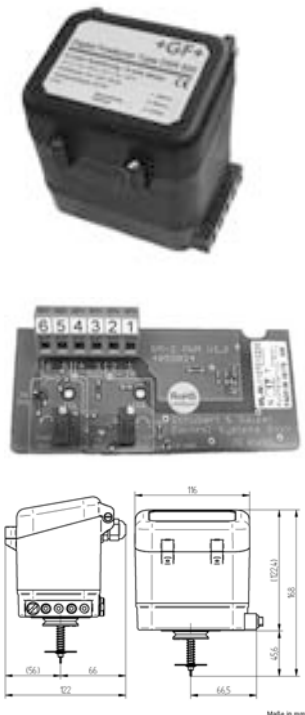
- For actuators function FC
- For actuators function FO only possible by assembly in the factory



No	DSR 500-1 for Diastar DN 15-50 FC Code	DSR 500-2 for Diastar DN 65-150 FC Code	DSR 500-3 for pneumatic rotary actuator Code	
1	199 190 001	199 190 029	199 190 108	

With feedback signal 4-20mA

- For actuators function FC
- For actuators function FO only possible by assembly in the factory

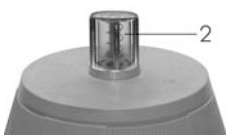


No	DSR 500-1 for Diastar DN 15-50 FC Code	DSR 500-2 for Diastar DN 65-150 FC Code	DSR 500-3 for pneumatic rotary actuator Code	Feedback module 4-20mA Code	
1	199 190 575	199 190 576	199 190 577	199 190 109	

Accessories for digital electro-pneumatic positioner

Attachment kit to type DSR 500-1

With optical position indicator for Diastar DN 15-50



Pos	DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO Code	
2	15		199 190 417		
2	20	199 190 417	199 190 417	199 190 417	
2	25	199 190 417	199 190 418	199 190 417	

table continued next page

Automation and actuators

Pos	DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO Code	
2	32	199 190 418	199 190 418	199 190 418	
2	40	199 190 418	199 190 418	199 190 418	
2	50	199 190 418	199 190 418	199 190 418	



Attachment kit to type DSR 500-1 Without optical position indicator for Diastar DN 15-50

No	DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO Code	
3	15		199 190 414		
3	20	199 190 414	199 190 414	199 190 414	
3	25	199 190 414	199 190 415	199 190 414	
3	32	199 190 415	199 190 415	199 190 415	
3	40	199 190 415	199 190 415	199 190 415	
3	50	199 190 415	199 190 415	199 190 415	



Attachment kit to type DSR 500-2 For Diastar DN 65-150

Part No.	with optical position indicator Code	without optical position indicator Code	
2	199 190 419		
3		199 190 416	



Attachement kit to type DSR 500-3 For rotary actuators

Code	
199 190 281	

Electro-pneumatic positioner Positioner type Eckardt SRI 986



No	single acting (FC/ FO) Code	double acting (DA) Code	
1	199 190 348	199 190 349	

Automation and actuators

Accessories for electro-pneumatic positioner

Attachment kit for type Eckardt SRI 986



No	Typ DIASTAR DN 15-150 Code	Type PA 30 - PA 90 Code	Electr. pos. trans- former with 4- 20mA output Code	
2	199 190 350	199 190 351	199 190 395	



Positioner mounting flange for type DIASTAR

No	DN-DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO Code	
3	- 15		199 190 372	199 190 372	
3	- 20	199 190 372	199 190 372	199 190 372	
3	- 25	199 190 372	199 190 373	199 190 373	
3	- 32	199 190 373	199 190 373	199 190 373	
3	- 40	199 190 373	199 190 373	199 190 373	
3	- 50	199 190 373	199 190 373	199 190 373	
3	65 - 150		199 190 311	199 190 311	

Industrial controller type PE70

For single loop only

Model:

- 1 sensor input
- Continuous control
- 3-point control
- L/W/H: 128/48/96



Type	Voltage	Code	
PE70-3	90..250 V ~	199 192 162	
PE70-4	24 V ~ / 18..30 V =	199 192 163	

For ratio and single loop control

Model:

- 2 sensor inputs
- Ratio control
- Continuous control
- 3-point control
- L/W/H: 128/48/96



Type	Voltage	Code	
PE70-1	90..250 V ~	199 192 160	
PE70-2	24 V ~ / 18..30 V =	199 192 161	

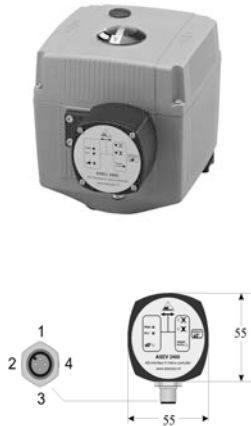
Automation and actuators

AS-Interface

AS-Interface type ASEV 2400

For electric rotary actuators

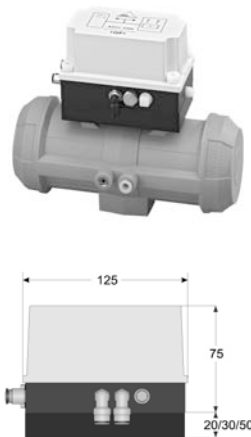
- Without accessories



Code	
199 190 562	

AS-Interface set type ASVC 2300

For pneumatic rotary actuators



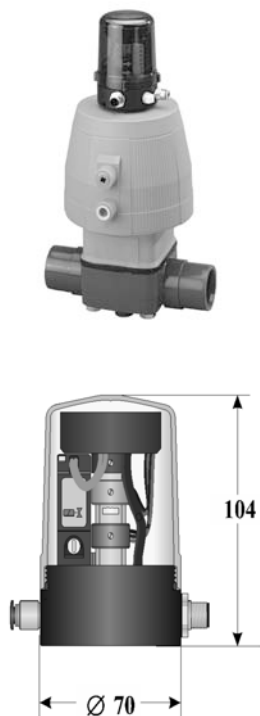
Type of actuator	Code	
PA11/21 (FC/FO); PA30/35 (FC/FO)	199 190 560	
PA >35 (FC/FO)	199 190 565	
PA11/21 (DA); PA30-45 (DA)	199 190 566	
PA >45 (DA)	199 190 567	

Automation and actuators

AS-Interface set type Topmatic For Diastar

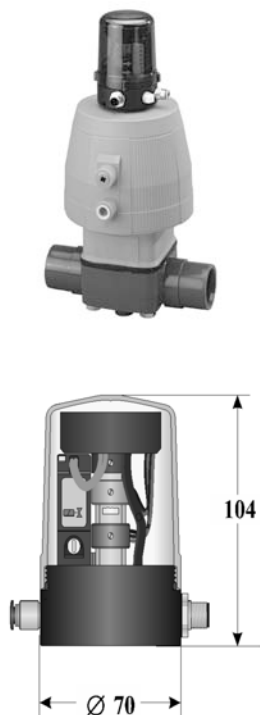
- Without accessories

Series Ten/028 FC/025 FO



DN-DN [mm]	Code	
15 - 25	199 190 456	
32 - 50	199 190 457	

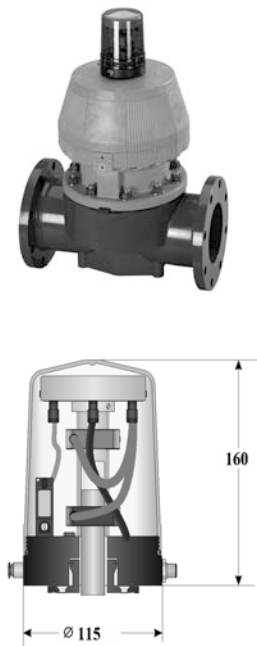
Series Sixteen/025-FC



DN-DN [mm]	Code	
15 - 20	199 190 456	
25 - 32	199 190 467	
40 - 50	199 190 468	

Automation and actuators

Series 025 FC/FO



DN-DN [mm]	Code	
65 - 150	199 190 458	

AS-Interface type ASIM 2010

- Without accessories

For manual valves with integrated feedback



Code	
199 190 568	

AS-Interface type ASIM 2400

- Without accessories

For sensors with switching-output



Code	
199 190 569	

Automation and actuators

Assembly parts for butterfly valves

Hand lever kit for type 037M/038M



d-d [mm]	DN-DN [mm]	Inch	Code	
63 - 90	50 - 80	2-3	198 803 049	
110 - 110	100 - 100	4-5	198 803 050	
140 - 140	125 - 125	6	198 803 051	
160 - 225	150 - 200	8	198 803 052	
280 - 315	250 - 300	10-12	198 803 645	

Intermediate element

Pneumatic type 240 / 241 / 242

Without manual override

d [mm]	DN [mm]	Type of actuator	Code	
63	50	PA30 FC/FO	198 000 595	
63	50	PA35 DA	198 000 595	
75	65	PA30 FC/FO	198 000 595	
75	65	PA35 DA	198 000 595	
90	80	PA40 DA	198 000 595	
90	80	PA35 FC/FO	198 000 595	
110	100	PA40 FC/FO	198 000 600	
110	100	PA45 DA	198 000 600	
140	125	PA45 DA	198 000 600	
140	125	PA45 FC/FO	198 000 597	
160	150	PA55 DA	198 000 600	
160	150	PA50 FC	198 000 599	
225	200	PA55 FC/FO	198 000 598	
225	200	PA55 DA	198 000 600	
280	250	PA65 FC/FO	198 000 730	
280	250	PA65 DA	198 000 731	
315	300	PA70 FC/FO	198 000 730	
315	300	PA70 DA	198 000 731	

Electric type 140 / 141 / 142

Without manual override

d [mm]	DN [mm]	Type of actuator	Code	
63	50	EA31	198 000 601	
75	65	EA31	198 000 601	
90	80	EA31	198 000 601	
110	100	EA31	198 000 602	
140	125	EA31	198 000 602	
160	150	EA31	198 000 599	
225	200	EA42	198 000 603	
280	250	EA42	198 000 732	
315	300	EA42	198 000 732	

Electric type 140 / 141 / 142

With manual override

d-d [mm]	DN-DN [mm]	Type of actuator	Code	
63 - 90	50 - 80	EA31	198 000 623	
110 - 140	100 - 125	EA31	198 000 624	
160 -	150 -	EA31	198 000 625	
225 -	200 -	EA42	198 000 627	

Automation and actuators

Gear operated with handwheel 567 / 568

d [mm]	DN [mm]	Code	
63	50	198 000 621	
75	65	198 000 621	
90	80	198 000 621	
110	100	198 000 622	
140	125	198 000 622	
160	150	198 000 599	
225	200	198 000 599	
280	250	198 000 880	
315	300	198 000 880	

Hand lever kit with fine adjustment For type 037M/038M



d-d [mm]	DN-DN [mm]	Inch	Code	
63 - 90	50 - 80	2-3	198 803 384	
110 - 110	100 - 100	4	198 803 385	
140 - 140	125 - 125	5	198 803 386	
160 - 225	150 - 200	6-8	198 803 387	

Reduction gear with handwheel for type 037G/038G

- Including assembly kit



d-d [mm]	DN-DN [mm]	Inch	Code	
63 - 90	50 - 80	2-3	198 806 690	
110 - 140	100 - 125	4-5	198 806 691	
160 - 225	150 - 200	6-8	198 806 692	
225 - 315	200 - 300	8-12	198 806 693	

Intermediate element to type 037E/038E

Without manual override

d-d [mm]	DN-DN [mm]	Inch	Type	Code	
63 - 90	50 - 80	2-3	EA 31	198 000 411	
110 - 140	100 - 125	4-5	EA 31	198 000 412	
160 - 225	150 - 200	6-8	EA 42	198 000 415	
- 280	- 250	10	EA 42	198 000 416	

With manual override

Model:

- EA30/41 no longer available, replacement by EA31/42
- EA50 will soon be phased out

d-d [mm]	DN-DN [mm]	Inch	Type	Code	
63 - 90	50 - 80	2-3	EA 31	198 000 338	
110 - 140	100 - 125	4-5	EA 42	198 000 339	
160 - 225	150 - 200	6-8	EA 42	198 000 340	
- 280	- 250	10	EA 50	-	

Automation and actuators

Intermediate element to type 037P/038P

Without manual override

d [mm]	DN [mm]	Inch	Type of actuator	Code	
63	50	2	PA30 FC/FO	198 000 382	
63	50	2	PA35 DA	198 000 382	
75	65	2 ½	PA30 FC/FO	198 000 382	
75	65	2 ½	PA35 DA	198 000 382	
90	80	3	PA35 FC/FO	198 000 383	
90	80	3	PA35 DA	198 000 384	
110	100	4	PA40 FC/FO	198 000 385	
110	100	4	PA45 DA	198 000 385	
140	125	5	PA45 FC/FO	198 000 386	
140	125	5	PA45 DA	198 000 387	
160	150	6	PA50 FC/FO	198 000 388	
160	150	6	PA55 DA	198 000 388	
225	200	8	PA60 FC/FO	198 000 389	
225	200	8	PA60 DA	198 000 390	
280	250	10	PA60 FC/FO	198 000 391	
280	250	10	PA65 DA	198 000 391	
315	300	12	PA70 FC/FO	198 000 392	
315	300	12	PA70 DA	198 000 393	

Automation and actuators

Assembly parts for ball valves

Retrofit ball valve bracket

For EA11/21 PA11/21 to ball valve 346

Type of actuator	d-d [mm]	Inch [inch]	DN-DN [mm]	Master gauge	Code	
PA11	- 20	1/2	- 15	F04	198 000 608	
PA11 / EA11/21	16 - 20	3/8 - 1/2	10 - 15	F05	198 000 580	
PA11	- 25	3/4	- 20	F04	198 000 609	
EA11/21	- 25	3/4	- 20	F05	198 000 604	
PA11	- 32	1	- 25	F04	198 000 610	
PA11 / EA11/21	- 32	1	- 25	F05	198 000 582	
PA21 EA11/21	- 40	1 1/4	- 32	F05	198 000 605	
PA21 EA11/21	- 50	1 1/2	- 40	F05	198 000 606	
PA21 EA11/21	- 63	2	- 50	F05	198 000 607	

Ball valve bracket type 175-7/275-7

Model:

- For EA21 and PA11/21 to ball valve 343

Type of actuator	d-d [mm]	Inch [inch]	DN-DN [mm]	Master gauge	EPDM Code	
EA21 / PA11	16 - 20	3/8 - 1/2	10 - 15	F04 / F05	198 000 570	
EA21 / PA11	- 25	3/4	- 20	F04 / F05	198 000 571	
EA21 / PA11	- 32	1	- 25	F04 / F05	198 000 572	
EA21 / PA21	- 40	1 1/4	- 32	F05	198 000 573	
EA21 / PA21	- 50	1 1/2	- 40	F05	198 000 574	
EA21 / PA21	- 63	2	- 50	F05	198 000 575	

Ball valve bracket type 178/278

Model:

- For EA21 and PA11/21 to ball valve 343 vertical
- 3-way ball valve only with EA21

Type of actuator	d-d [mm]	Inch [inch]	DN-DN [mm]	Master gauge	EPDM Code	
PA11 / EA11/21	16 - 20	3/8 - 1/2	10 - 15	F05	198 000 580	
PA11 / EA21	- 25	3/4	- 20	F05	198 000 581	
PA11 / EA11/21	- 32	1	- 25	F05	198 000 582	
PA21 / EA21	- 40	1 1/4	- 32	F05	198 000 583	
PA21 / EA21	- 50	1 1/2	- 40	F05	198 000 584	
PA21 / EA21	- 63	2	- 50	F05	198 000 585	

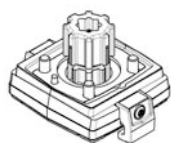
Intermediate element to type 230-235 with manual override



DN-DN [mm]	Inch [inch]	Code	
10 - 25	3/8 - 1	198 000 500	
32 - 50	1 1/4 - 2	198 000 501	

Automation and actuators

Adapter plate incl. coupling



For actuator units electric type EA11/EA21

Pneumatic type PA11/PA21

To type 546

d-d [mm]	Inch [inch]	DN-DN [mm]	Code	
16 - 20	3/8 - 1/2	10 - 15	198 150 556	
25 - 32	3/4 - 1	20 - 25	198 150 557	
40 - 50	1 1/4 - 1 1/2	32 - 40	198 150 558	
- 63	- 2	- 50	198 150 559	

Intermediate element

(screws/distance pieces/reducing bush)

For actuator units pneumatic PA30-45

To type 546

d [mm]	DN [mm]	Type of actuator	Code	
75	65	PA30 FC/FO	198 000 595	
75	65	PA35 DA	198 000 595	
90	80	PA35 FC/FO	198 000 596	
90	80	PA40 DA	198 000 595	
110	100	PA40 FC/FO	198 000 599	
110	100	PA45 DA	198 000 599	

Intermediate element

(screws/distance pieces/reducing bush)

For actuator unit EA31

To type 546

d-d [mm]	DN-DN [mm]	Code	
75 - 90	65 - 80	198 000 601	
- 110	- 100	198 000 602	

Intermediate element to type 108

With manual override

d [mm]	d-d [mm]	DN [mm]	DN-DN [mm]	Inch	Type	Code	
75	-	65	-	2 1/2	EA 31	198 000 132	
90	-	80	-	3	EA 31	198 000 133	
	110 - 160		100 - 150	4 / 6	EA 31 / EA 41	198 000 134	

Intermediate element to type 208

Without manual override (with flanges)

d [mm]	DN [mm]	Inch [inch]	Type	Code	
75	65	2 1/2	PA 40 FC/FO	198 000 236	
75	65	2 1/2	PA 40 DA	198 000 237	
90	80	3	PA 50 FC/FO	198 000 238	
90	80	3	PA 50 DA	198 000 239	
110 - 160	100 - 150	4 - 6	PA 50 FC/FO	198 000 240	
110 - 160	100 - 150	4 - 6	PA 50 DA	198 000 241	

Automation and actuators

Without manual override (with unions)

d [mm]	DN [mm]	Inch	Type	Code	
75	65	2 1/2	PA 40 FC/FO	198 000 276	
75	65	2 1/2	PA 40 DA	198 000 277	
90	80	3	PA 50 FC/FO	198 000 278	
90	80	3	PA 50 DA	198 000 279	
110	100	4	PA 50 FC/FO	198 000 280	
110	100	4	PA 50 DA	198 000 281	

Automation and actuators

Assembly parts for actuators

Adapter set for PA11

F04 (WS11) per EN ISO 5211



Code	
198 000 586	

Adapter set for PA21 EA11 EA21

F05 (WS11/14) per EN ISO 5211



Code	
198 000 587	

Notes:

[illegible]

Notes:

Notes:

[illegible]

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 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 of the ICC, 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 unpractical 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 months, either party may cancel the contract forthwith. Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting therefrom, 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 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 ICC, 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 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 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 cancel the contract or to demand a reduction in the contract price if also a second attempt to repair or replace the Products has failed.
- 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.
 - the statute of limitations for warranty or damage claims - contrary to Section 15.6 - will be 5 years from the date of installation.

16 Limitation of Liability

- The rights and remedies of the customer are exclusively governed by these General Conditions of Supply. 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, however, does not apply in case unlawful intent or gross negligence on the part of Georg Fischer's management and in case of strict liability, in particular under applicable product liability statutes.

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.

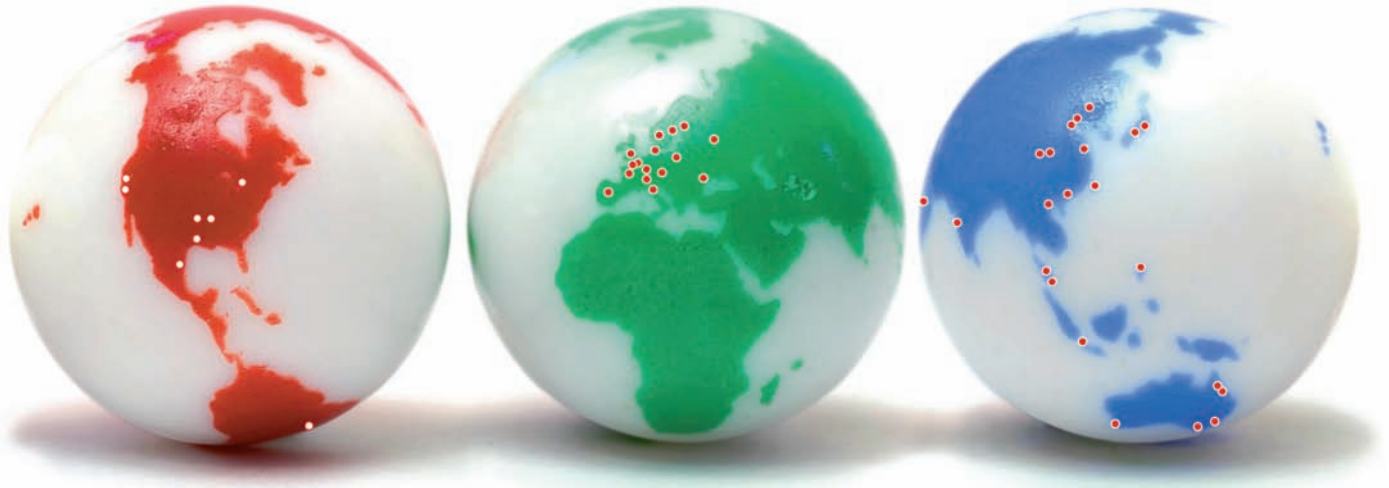
18 Place of Performance and Jurisdiction

- 18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.
- 18.2 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.
- 18.3 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.

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The technical data is not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

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