

Product Range International 2015

Piping systems for industrial application

Pressure regulating valves

Pressure reducing valve type 582 PVC-C With solvent cement spigots metric Without manometer

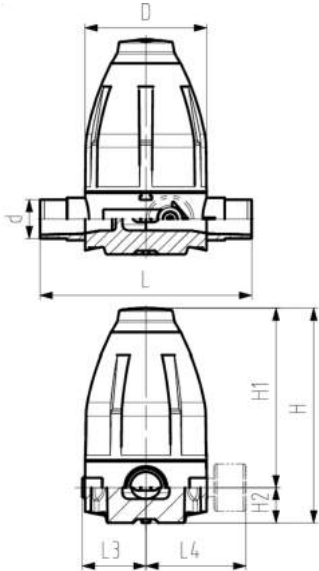


Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d [mm]	DN [mm]	PN [bar]	O-rings EPDM Code	O-rings FPM Code
16	10	10	163 582 001	163 582 011
20	15	10	163 582 002	163 582 012
25	20	10	163 582 003	163 582 013
32	25	10	163 582 004	163 582 014
40	32	10	163 582 005	163 582 015
50	40	10	163 582 006	163 582 016
63	50	10	163 582 007	163 582 017

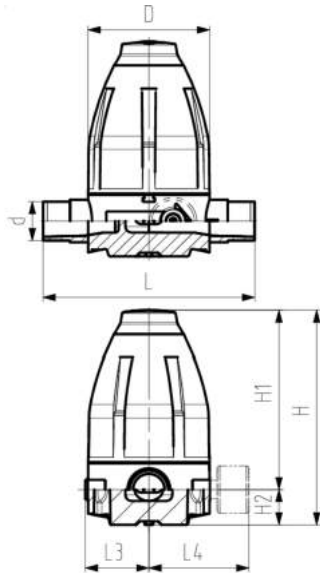
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L3 [mm]	L5 [mm]	M	closest inch [inch]
16	79	132	111	21	12	134	42	40	M6	3/8
20	79	132	111	21	12	134	42	40	M6	1/2
25	100	177	148	29	14	174	53	46	M6	3/4
32	100	177	148	29	14	174	53	46	M6	1
40	147	251	207	44	21	224	76	65	M8	1 1/4
50	147	251	207	44	21	224	76	65	M8	1 1/2
63	147	251	207	44	21	244	76	65	M8	2



Pressure reducing valve type 582 PVC-C With solvent cement spigots metric With manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)
- Attention: Manometer with brass connection in direct contact with medium. Check for chemical resistance, otherwise chose the optional manometer adapter for media separation.



0.3-3.0 bar (4-44 psi) on request

d [mm]	DN [mm]	PN [bar]	O-rings EPDM Code	O-rings FPM Code								
16	10	10	163 582 021	163 582 031								
20	15	10	163 582 022	163 582 032								
25	20	10	163 582 023	163 582 033								
32	25	10	163 582 024	163 582 034								
40	32	10	163 582 025	163 582 035								
50	40	10	163 582 026	163 582 036								
63	50	10	163 582 027	163 582 037								

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L3 [mm]	L4 [mm]	L5 [mm]	M	closest inch [inch]	
16	79	132	111	21	12	134	42	77	40	M6	3/8	
20	79	132	111	21	12	134	42	77	40	M6	1/2	
25	100	177	148	29	14	174	53	88	46	M6	3/4	
32	100	177	148	29	14	174	53	88	46	M6	1	
40	147	251	207	44	21	224	76	111	65	M8	1 1/4	
50	147	251	207	44	21	224	76	111	65	M8	1 1/2	
63	147	251	207	44	21	244	76	111	65	M8	2	



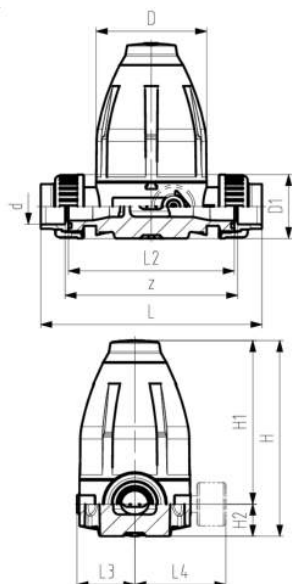
Pressure reducing valve type 582 PVC-C Unions with solvent cement sockets metric Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d [mm]	DN [mm]	PN [bar]	O-rings EPDM Code	O-rings FPM Code
20	15	10	163 582 102	163 582 112
25	20	10	163 582 103	163 582 113
32	25	10	163 582 104	163 582 114
40	32	10	163 582 105	163 582 115
50	40	10	163 582 106	163 582 116
63	50	10	163 582 107	163 582 117

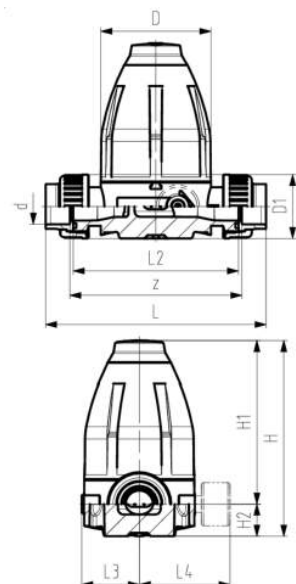
d [mm]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L2 [mm]	L3 [mm]	L5 [mm]	M	z [mm]	closest inch [inch]
20	79	43	132	111	21	12	162	120	42	40	M6	126	½
25	100	51	177	148	29	14	198	150	53	46	M6	156	¾
32	100	58	177	148	29	14	204	150	53	46	M6	156	1
40	147	72	251	207	44	21	267	205	76	65	M8	211	1 ¼
50	147	83	251	207	44	21	273	205	76	65	M8	211	1 ½
63	147	100	251	207	44	21	287	205	76	65	M8	211	2



Pressure reducing valve type 582 PVC-C Unions with solvent cement sockets metric With manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)
- Attention: Manometer with brass connection in direct contact with medium. Check for chemical resistance, otherwise chose the optional manometer adapter for media separation.



0.3-3.0 bar (4-44 psi) on request

d [mm]	DN [mm]	PN [bar]	O-rings EPDM Code	O-rings FPM Code
20	15	10	163 582 122	163 582 132
25	20	10	163 582 123	163 582 133
32	25	10	163 582 124	163 582 134
40	32	10	163 582 125	163 582 135
50	40	10	163 582 126	163 582 136
63	50	10	163 582 127	163 582 137

d [mm]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	M	z [mm]
20	79	43	132	111	21	12	162	120	42	77	40	M6	126
25	100	51	177	148	29	14	198	150	53	88	46	M6	156
32	100	58	177	148	29	14	204	150	53	88	46	M6	156
40	147	72	251	207	44	21	267	205	76	111	65	M8	211
50	147	83	251	207	44	21	273	205	76	111	65	M8	211
63	147	100	251	207	44	21	287	205	76	111	65	M8	211

d [mm]	closest inch [inch]
20	¾
25	¾
32	1
40	1 ¼
50	1 ½
63	2



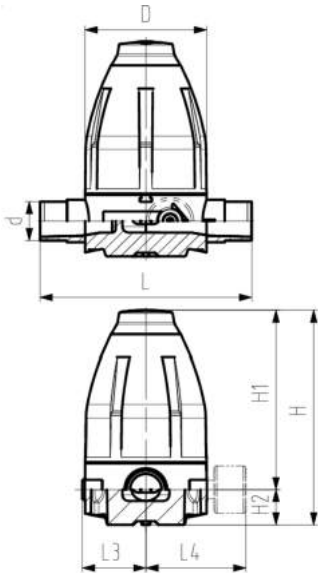
Pressure retaining valve type 586 PVC-C With solvent cement spigots metric Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d [mm]	DN [mm]	PN [bar]	O-rings EPDM Code	O-rings FPM Code
16	10	10	163 586 001	163 586 011
20	15	10	163 586 002	163 586 012
25	20	10	163 586 003	163 586 013
32	25	10	163 586 004	163 586 014
40	32	10	163 586 005	163 586 015
50	40	10	163 586 006	163 586 016
63	50	10	163 586 007	163 586 017

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L3 [mm]	L5 [mm]	M	closest inch [inch]
16	79	132	111	21	12	134	42	40	M6	3/8
20	79	132	111	21	12	134	42	40	M6	1/2
25	100	177	148	29	14	174	53	46	M6	3/4
32	100	177	148	29	14	174	53	46	M6	1
40	147	251	207	44	21	224	76	65	M8	1 1/4
50	147	251	207	44	21	224	76	65	M8	1 1/2
63	147	251	207	44	21	244	76	65	M8	2



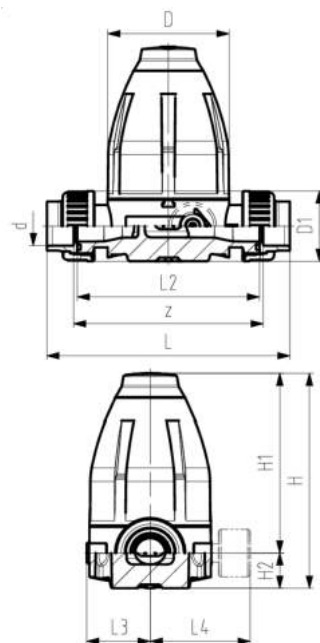
Pressure retaining valve type 586 PVC-C Unions with solvent cement sockets metric Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request

Manometer on request



d [mm]	DN [mm]	PN [bar]	O-rings EPDM Code	O-rings FPM Code
20	15	10	163 586 102	163 586 112
25	20	10	163 586 103	163 586 113
32	25	10	163 586 104	163 586 114
40	32	10	163 586 105	163 586 115
50	40	10	163 586 106	163 586 116
63	50	10	163 586 107	163 586 117

d [mm]	D [mm]	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L2 [mm]	L3 [mm]	L5 [mm]	M	z [mm]	closest inch [inch]
20	79	43	132	111	21	12	162	120	42	40	M6	126	1/2
25	100	51	177	148	29	14	198	150	53	46	M6	156	3/4
32	100	58	177	148	29	14	204	150	53	46	M6	156	1
40	147	72	251	207	44	21	267	205	76	65	M8	211	1 1/4
50	147	83	251	207	44	21	273	205	76	65	M8	211	1 1/2
63	147	100	251	207	44	21	287	205	76	65	M8	211	2

Ball valves electric

107

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

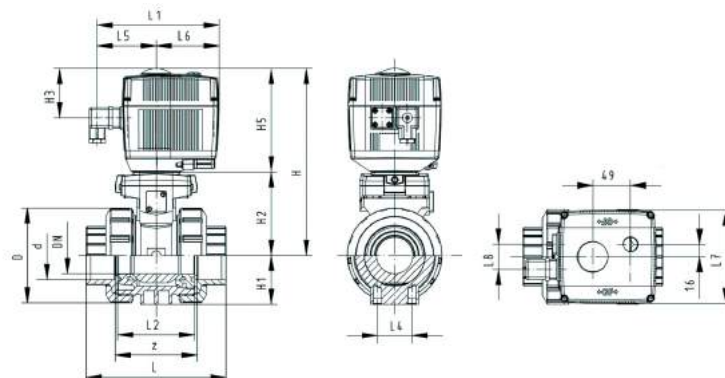
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 107 102	1	1.770	199 107 112	1	1.770	
20	15	10	185	199 107 103	1	1.780	199 107 113	1	1.780	
25	20	10	350	199 107 104	1	1.860	199 107 114	1	1.860	
32	25	10	700	199 107 105	1	1.950	199 107 115	1	1.950	
40	32	10	1000	199 107 106	1	2.190	199 107 116	1	0.001	
50	40	10	1600	199 107 107	1	2.360	199 107 117	1	2.360	
63	50	10	3100	199 107 108	1	3.140	199 107 118	1	3.140	

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

d [mm]	closest inch [inch]	
16	¾	
20	½	
25	¾	
32	1	
40	1 ¼	
50	1 ½	
63	2	



PF 3 39 695 032



DN10/15 - 50

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

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

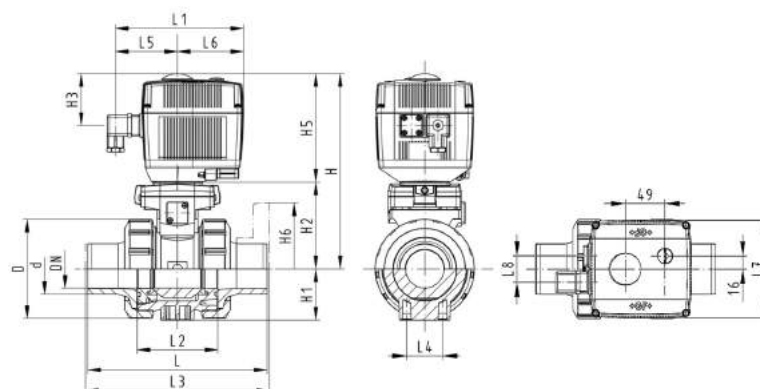
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 107 122	1	1.770	199 107 132	1	1.770	
20	15	10	185	199 107 123	1	1.780	199 107 133	1	1.780	
25	20	10	350	199 107 124	1	1.860	199 107 134	1	1.860	
32	25	10	700	199 107 125	1	1.950	199 107 135	1	1.950	
40	32	10	1000	199 107 126	1	2.641	199 107 136	1	2.190	
50	40	10	1600	199 107 127	1	2.360	199 107 137	1	2.360	
63	50	10	3100	199 107 128	1	3.140	199 107 138	1	3.140	

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

d [mm]	closest inch [inch]	
16	3/8	
20	1/2	
25	3/4	
32	1	
40	1 1/4	
50	1 1/2	
63	2	



PF 3 39 695 032



DN10/15 - 50

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

Model:

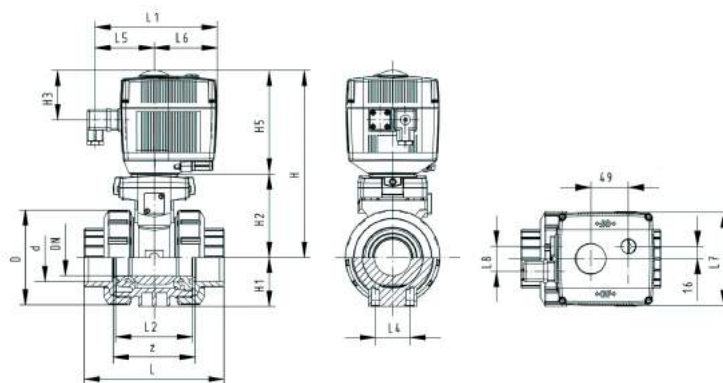
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
3/8	10	10	70	199 107 702	1	2.100	199 107 712	1	2.100	
1/2	15	10	185	199 107 703	1	2.100	199 107 713	1	2.100	
3/4	20	10	350	199 107 704	1	2.200	199 107 714	1	2.200	
1	25	10	700	199 107 705	1	2.300	199 107 715	1	2.300	
1 1/4	32	10	1000	199 107 706	1	2.600	199 107 716	1	2.600	
1 1/2	40	10	1600	199 107 707	1	3.000	199 107 717	1	3.000	
2	50	10	3100	199 107 708	1	3.800	199 107 718	1	3.800	

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



PF 3 39 695 032



DN10/15 - 50

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

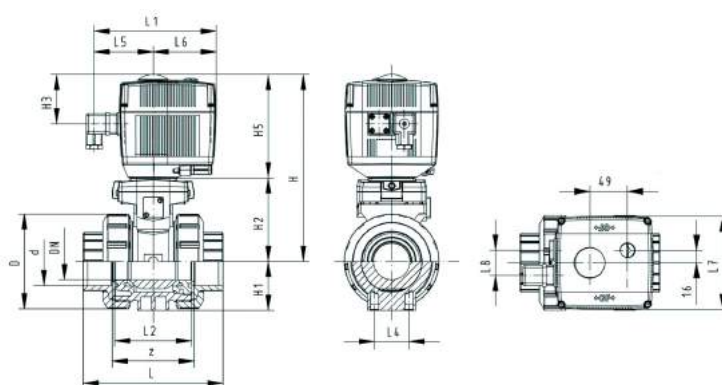
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 107 142	1	1.770	199 107 152	1	1.770	
20	15	10	185	199 107 143	1	1.780	199 107 153	1	1.780	
25	20	10	350	199 107 144	1	2.237	199 107 154	1	1.860	
32	25	10	700	199 107 145	1	1.950	199 107 155	1	1.950	
40	32	10	1000	199 107 146	1	2.190	199 107 156	1	2.190	
50	40	10	1600	199 107 147	1	2.360	199 107 157	1	2.360	
63	50	10	3100	199 107 148	1	3.665	199 107 158	1	3.140	

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

d [mm]	closest inch [inch]	
16	3/8	
20	1/2	
25	3/4	
32	1	
40	1 1/4	
50	1 1/2	
63	2	



PF 3 39 695 032



DN10/15 - 50

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

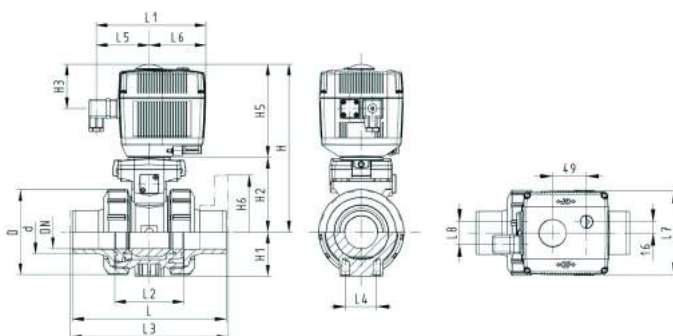
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 107 162	1	1.770	199 107 172	1	1.770	
20	15	10	185	199 107 163	1	1.780	199 107 173	1	1.780	
25	20	10	350	199 107 164	1	1.860	199 107 174	1	1.860	
32	25	10	700	199 107 165	1	1.950	199 107 175	1	1.950	
40	32	10	1000	199 107 166	1	2.190	199 107 176	1	2.190	
50	40	10	1600	199 107 167	1	2.360	199 107 177	1	2.360	
63	50	10	3100	199 107 168	1	3.140	199 107 178	1	3.140	

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

d [mm]	closest inch [inch]	
16	¾	
20	½	
25	¾	
32	1	
40	1 ¼	
50	1 ½	
63	2	



PF 3 39 695 032



DN10/15 - 50

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

Model:

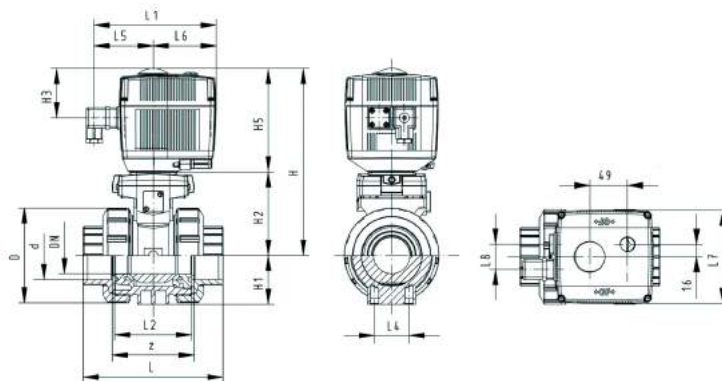
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
3/8	10	10	70	199 107 742	1	2.100	199 107 752	1	2.100	
1/2	15	10	185	199 107 743	1	2.100	199 107 753	1	2.100	
3/4	20	10	350	199 107 744	1	2.200	199 107 754	1	2.200	
1	25	10	700	199 107 745	1	2.300	199 107 755	1	2.300	
1 1/4	32	10	1000	199 107 746	1	2.600	199 107 756	1	2.600	
1 1/2	40	10	1600	199 107 747	1	3.000	199 107 757	1	3.000	
2	50	10	3100	199 107 748	1	3.800	199 107 758	1	3.800	

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



PF 3 39 695 032

130

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

Model:

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

Option:

- Individual configuration of the valve (see diagram)

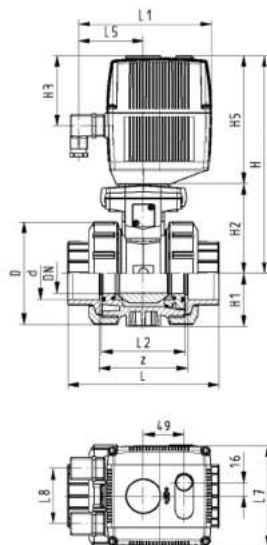


DN10/15 - 50

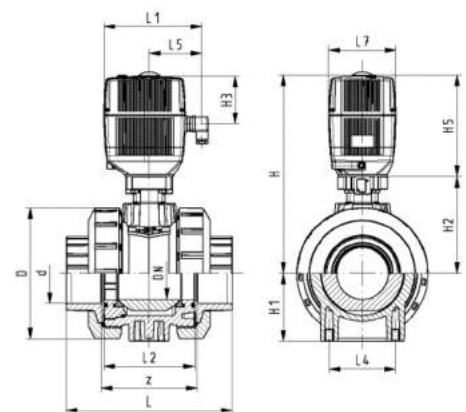


d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	10	70	199 130 402	1	2.100	199 130 412	1	2.100
20	15	10	185	199 130 403	1	2.100	199 130 413	1	2.100
25	20	10	350	199 130 404	1	2.200	199 130 414	1	2.200
32	25	10	700	199 130 405	1	2.300	199 130 415	1	2.695
40	32	10	1000	199 130 406	1	2.600	199 130 416	1	2.600
50	40	10	1600	199 130 407	1	3.000	199 130 417	1	3.213
63	50	10	3100	199 130 408	1	3.800	199 130 418	1	3.800
75	65	10	5000	199 130 409	1	7.700	199 130 419	1	7.700
90	80	10	7000	199 130 410	1	10.400	199 130 420	1	10.400
110	100	10	11000	199 130 411	1	15.100	199 130 421	1	15.100

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]	closest inch [inch]
16	50	231	27	64	94	167	92	180	56	25	97	122	64	3/8
20	50	231	27	64	94	167	95	180	56	25	97	122	64	1/2
25	58	240	30	73	94	167	110	180	65	25	97	122	72	3/4
32	68	240	36	73	94	167	123	180	71	25	97	122	79	1
40	84	251	44	84	94	167	146	180	85	45	97	122	94	1 1/4
50	97	251	51	84	94	167	157	180	89	45	97	122	95	1 1/2
63	124	273	64	106	94	167	183	180	101	45	97	122	107	2
75	166	346	85	156	94	190	233	180	136	70	98	122	144	2 1/2
90	200	358	105	168	94	190	254	180	141	70	98	122	151	3
110	238	365	123	175	94	190	301	180	164	120	98	122	174	4



DN10/15-50



DN65-100



DN10/15 - 50



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

Model:

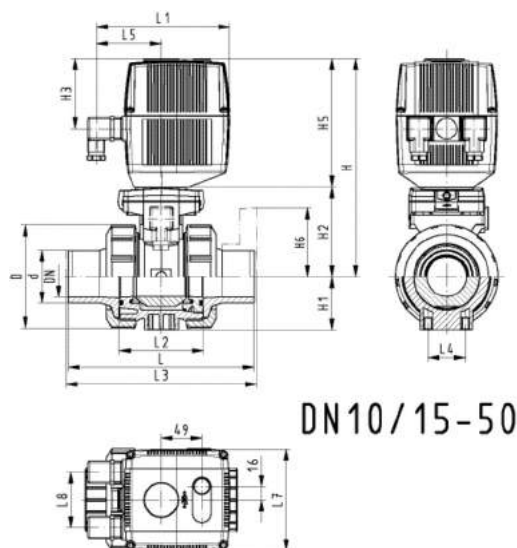
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time: EA21: 5s/90°<, EA31: 15s/90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

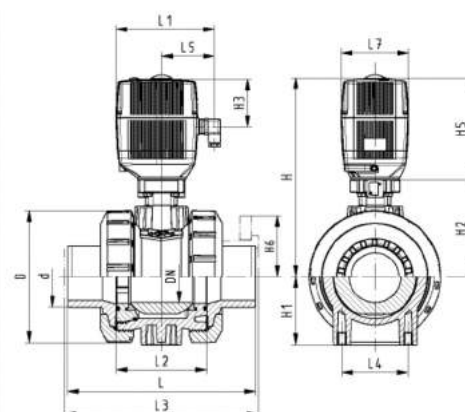
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 130 422	1	2.100	199 130 432	1	2.100	
20	15	10	185	199 130 423	1	2.100	199 130 433	1	2.100	
25	20	10	350	199 130 424	1	2.200	199 130 434	1	2.200	
32	25	10	700	199 130 425	1	2.300	199 130 435	1	2.300	
40	32	10	1000	199 130 426	1	2.600	199 130 436	1	2.600	
50	40	10	1600	199 130 427	1	3.000	199 130 437	1	3.000	
63	50	10	3100	199 130 428	1	3.800	199 130 438	1	3.800	
75	65	10	5000	199 130 429	1	7.900	199 130 439	1	7.900	
90	80	10	7000	199 130 430	1	10.600	199 130 440	1	10.600	
110	100	10	11000	199 130 431	1	15.300	199 130 441	1	15.300	

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]	closest inch [inch]
16	50	231	27	64	94	167	114	180	56	130	25	97	122	3/8
20	50	231	27	64	94	167	124	180	56	130	25	97	122	1/2
25	58	240	30	73	94	167	144	180	65	150	25	97	122	3/4
32	68	240	36	73	94	167	154	180	71	160	25	97	122	1
40	84	251	44	84	94	167	174	180	85	180	45	97	122	1 1/4
50	97	251	51	84	94	167	194	180	89	200	45	97	122	1 1/2
63	124	273	64	106	94	167	224	180	101	230	45	97	122	2
75	166	346	85	156	94	190	284	180	136	290	70	98	122	2 1/2
90	200	358	105	168	94	190	300	180	141	310	70	98	122	3
110	238	365	123	175	94	190	340	180	164	350	120	98	122	4



DN10/15-50



DN65-100

PF 3 39 695 632



DN10/15 - 50



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

Model:

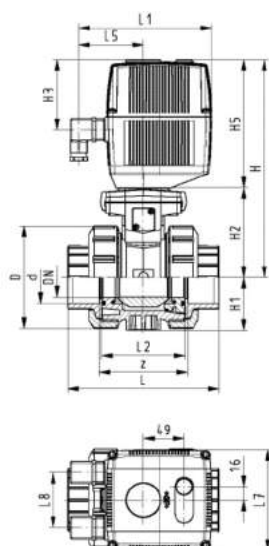
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

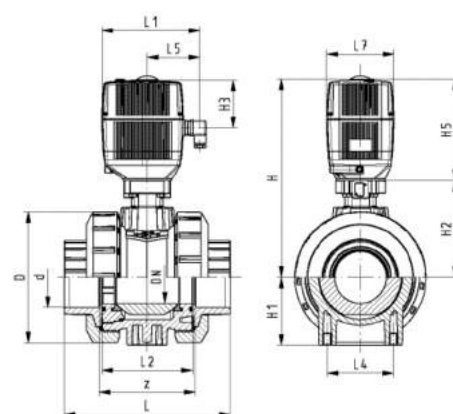
- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
3/8	10	10	70	199 130 182	1	2.100	199 130 192	1	2.100	
1/2	15	10	185	199 130 183	1	2.100	199 130 193	1	2.100	
3/4	20	10	350	199 130 184	1	2.200	199 130 194	1	2.200	
1	25	10	700	199 130 185	1	2.300	199 130 195	1	2.300	
1 1/4	32	10	1000	199 130 186	1	2.600	199 130 196	1	2.600	
1 1/2	40	10	1600	199 130 187	1	3.000	199 130 197	1	3.000	
2	50	10	3100	199 130 188	1	3.800	199 130 198	1	3.800	
2 1/2	65	10	5000	199 130 189	1	7.800	199 130 199	1	7.800	
3	80	10	7000	199 130 190	1	10.600	199 130 200	1	10.600	
4	100	10	11000	199 130 191	1	15.200	199 130 201	1	15.200	

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



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

Model:

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

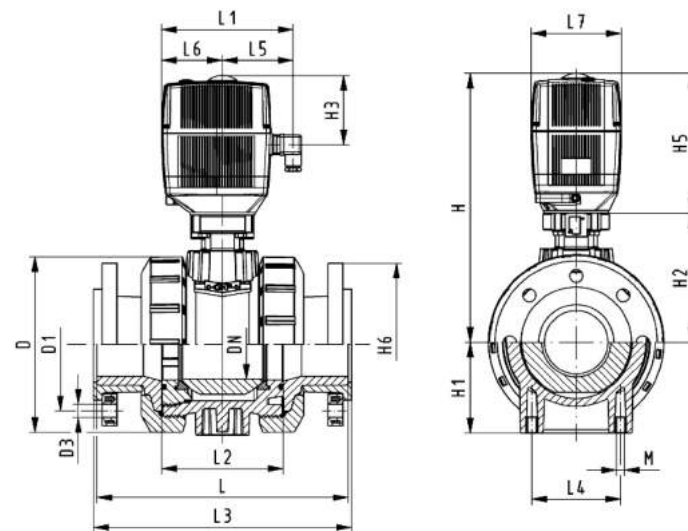
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
75	65	10	5000	199 134 489	1	11.900	199 134 499	1	11.900	
90	80	10	7000	199 134 490	1	15.400	199 134 500	1	15.400	
110	100	10	11000	199 134 491	1	21.800	199 134 501	1	21.800	

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	



PF 3 39 695 632



DN10/15 - 50



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

Model:

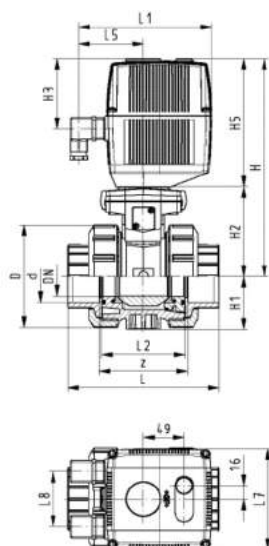
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

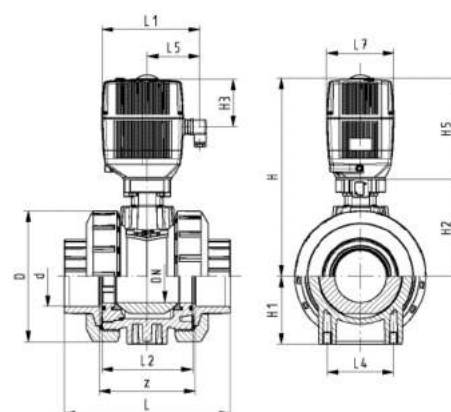
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 130 442	1	2.100	199 130 452	1	2.100	
20	15	10	185	199 130 443	1	2.100	199 130 453	1	2.100	
25	20	10	350	199 130 444	1	2.200	199 130 454	1	2.200	
32	25	10	700	199 130 445	1	2.300	199 130 455	1	2.674	
40	32	10	1000	199 130 446	1	2.600	199 130 456	1	2.600	
50	40	10	1600	199 130 447	1	3.000	199 130 457	1	3.000	
63	50	10	3100	199 130 448	1	3.800	199 130 458	1	3.800	
75	65	10	5000	199 130 449	1	7.700	199 130 459	1	7.700	
90	80	10	7000	199 130 450	1	10.400	199 130 460	1	9.825	
110	100	10	11000	199 130 451	1	15.100	199 130 461	1	15.100	

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]	closest inch [inch]
16	50	231	27	64	94	167	92	180	56	25	97	122	64	3/8
20	50	231	27	64	94	167	95	180	56	25	97	122	64	1/2
25	58	240	30	73	94	167	110	180	65	25	97	122	72	3/4
32	68	240	36	73	94	167	123	180	71	25	97	122	79	1
40	84	251	44	84	94	167	146	180	85	45	97	122	94	1 1/4
50	97	251	51	84	94	167	157	180	89	45	97	122	95	1 1/2
63	124	273	64	106	94	167	183	180	101	45	97	122	107	2
75	166	346	85	156	94	190	233	180	136	70	98	122	144	2 1/2
90	200	358	105	168	94	190	254	180	141	70	98	122	151	3
110	238	365	123	175	94	190	301	180	164	120	98	122	174	4



DN10/15-50



DN65-100



DN10/15 - 50



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

Model:

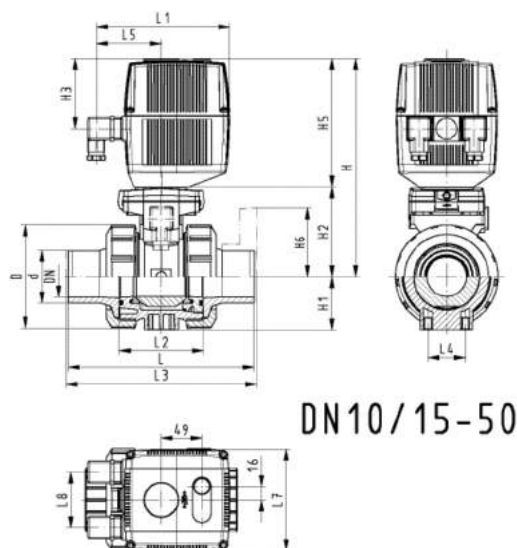
- Voltage 24 V AC/DC
- Control range 90°<
- Control time: EA21: 5s/90°<, EA31: 15s/90°<
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

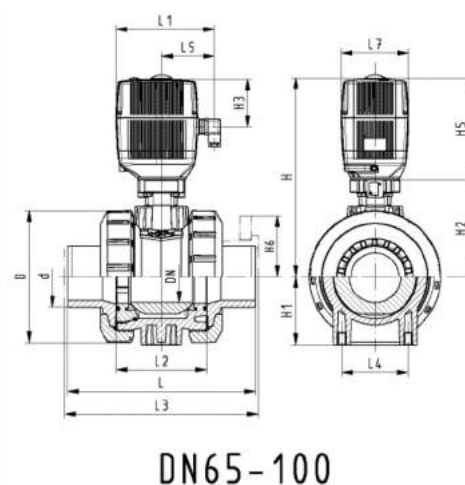
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 130 462	1	2.100	199 130 472	1	2.100	
20	15	10	185	199 130 463	1	2.100	199 130 473	1	2.100	
25	20	10	350	199 130 464	1	2.200	199 130 474	1	2.200	
32	25	10	700	199 130 465	1	2.300	199 130 475	1	2.300	
40	32	10	1000	199 130 466	1	2.600	199 130 476	1	2.600	
50	40	10	1600	199 130 467	1	3.000	199 130 477	1	3.000	
63	50	10	3100	199 130 468	1	3.800	199 130 478	1	3.800	
75	65	10	5000	199 130 469	1	7.900	199 130 479	1	7.900	
90	80	10	7000	199 130 470	1	10.600	199 130 480	1	10.600	
110	100	10	11000	199 130 471	1	15.300	199 130 481	1	15.300	

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]	closest inch [inch]
16	50	231	27	64	94	167	114	180	56	0	25	97	122	3/8
20	50	231	27	64	94	167	124	180	56	130	25	97	122	1/2
25	58	240	30	73	94	167	144	180	65	150	25	97	122	3/4
32	68	240	36	73	94	167	154	180	71	160	25	97	122	1
40	84	251	44	84	94	167	174	180	85	180	45	97	122	1 1/4
50	97	251	51	84	94	167	194	180	89	200	45	97	122	1 1/2
63	124	273	64	106	94	167	224	180	101	230	45	97	122	2
75	166	346	85	156	94	190	284	180	136	290	70	98	122	2 1/2
90	200	358	105	168	94	190	300	180	141	310	70	98	122	3
110	238	365	123	175	94	190	340	180	164	350	120	98	122	4



DN10/15-50



DN65-100

PF 3 39 695 632



DN10/15 - 50



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

Model:

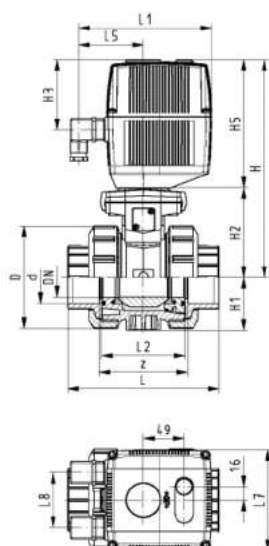
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time: EA21: 5s/90°<), EA31: 15s/90°<)
- Assignment of actuators: EA21 (DN10/15-50), EA31 (DN65-100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

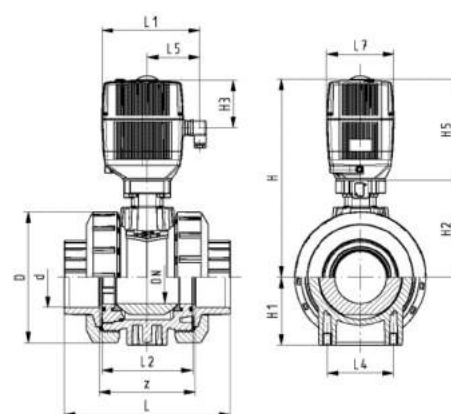
- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
3/8	10	10	70	199 130 202	1	2.100	199 130 212	1	2.100	
1/2	15	10	185	199 130 203	1	2.100	199 130 213	1	2.100	
3/4	20	10	350	199 130 204	1	2.200	199 130 214	1	2.200	
1	25	10	700	199 130 205	1	2.300	199 130 215	1	2.300	
1 1/4	32	10	1000	199 130 206	1	2.600	199 130 216	1	2.600	
1 1/2	40	10	1600	199 130 207	1	3.000	199 130 217	1	3.000	
2	50	10	3100	199 130 208	1	3.800	199 130 218	1	3.800	
2 1/2	65	10	5000	199 130 209	1	7.800	199 130 219	1	7.800	
3	80	10	7000	199 130 210	1	10.600	199 130 220	1	10.600	
4	100	10	11000	199 130 211	1	15.200	199 130 221	1	15.200	

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

PF 3 39 695 632



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

Model:

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

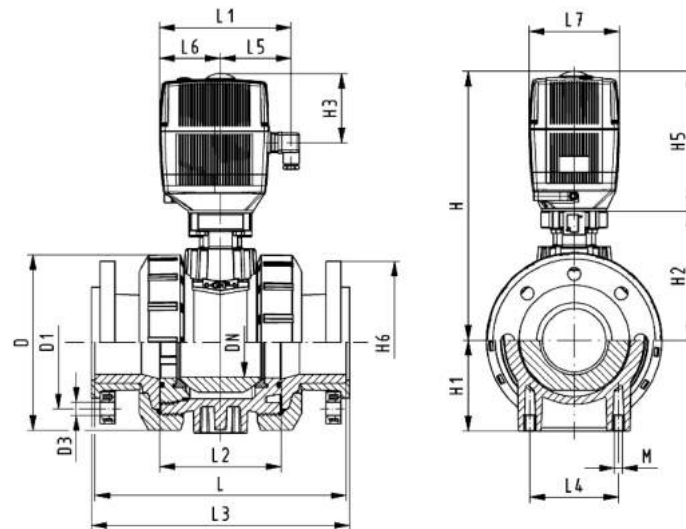
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
75	65	10	5000	199 134 509	1	11.900	199 134 519	1	11.900	
90	80	10	7000	199 134 510	1	15.400	199 134 520	1	15.400	
110	100	10	11000	199 134 511	1	21.800	199 134 521	1	21.800	

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	



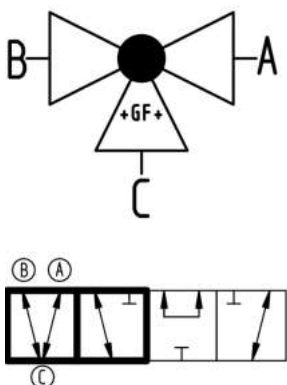
PF 3 39 695 632

185

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

Model:

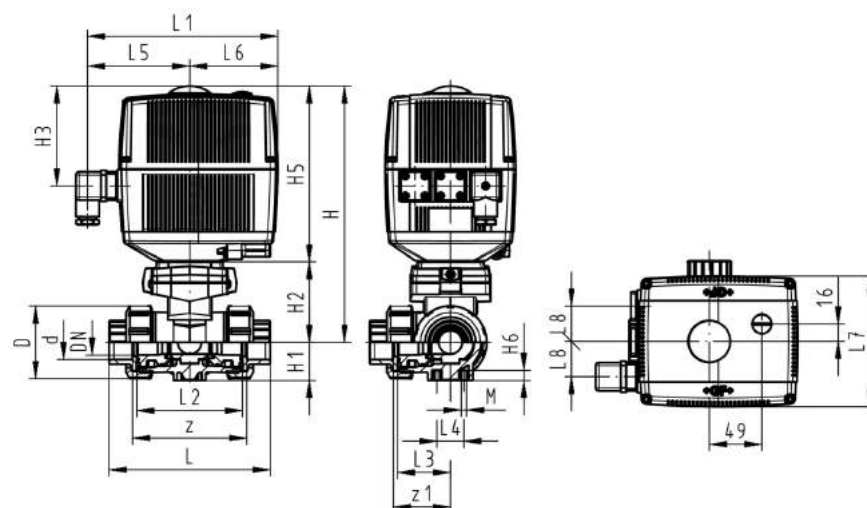
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless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



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	140	199 185 142	1	2.142	199 185 152	1	2.142	
20	15	10	200	199 185 143	1	2.148	199 185 153	1	2.148	
25	20	10	470	199 185 144	1	2.285	199 185 154	1	2.285	
32	25	10	793	199 185 145	1	2.486	199 185 155	1	2.486	
40	32	10	1290	199 185 146	1	2.939	199 185 156	1	2.939	
50	40	10	1910	199 185 147	1	3.419	199 185 157	1	3.419	
63	50	10	3100	199 185 148	1	4.867	199 185 158	1	4.867	

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]	closest inch [inch]
16	33	6	81	40	$\frac{3}{8}$
20	33	6	81	40	$\frac{1}{2}$
25	33	6	94	47	$\frac{3}{4}$
32	33	6	107	54	1
40	33	8	130	65	$1 \frac{1}{4}$
50	33	8	143	72	$1 \frac{1}{2}$
63	33	8	185	92	2



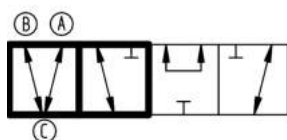
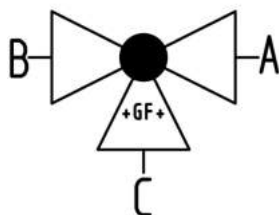
PF 3 39 980 032



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

Model:

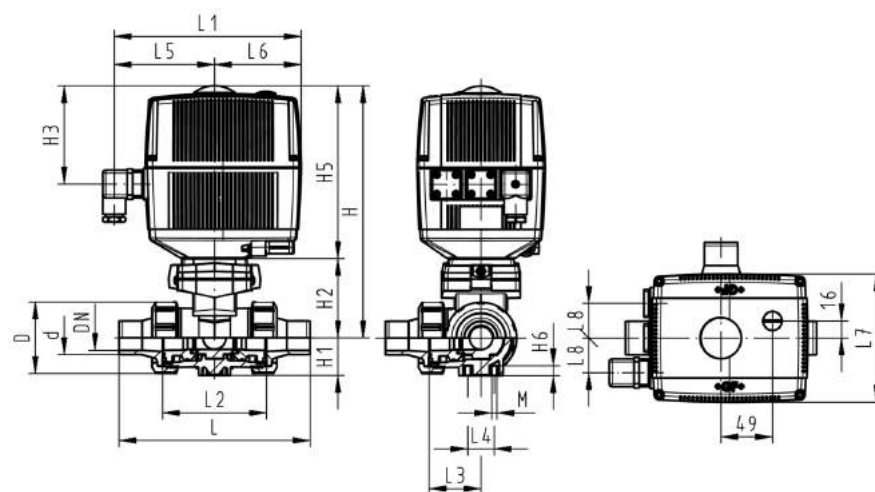
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless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



d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	140	199 185 122	1	2.148	199 185 132	1	2.148	
20	15	10	200	199 185 123	1	2.158	199 185 133	1	2.158	
25	20	10	470	199 185 124	1	2.301	199 185 134	1	2.301	
32	25	10	793	199 185 125	1	2.512	199 185 135	1	2.512	
40	32	10	1290	199 185 126	1	2.961	199 185 136	1	2.961	
50	40	10	1910	199 185 127	1	3.487	199 185 137	1	3.487	
63	50	10	3100	199 185 128	1	5.004	199 185 138	1	5.004	

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	closest inch [inch]
16	33	6	3/8
20	33	6	1/2
25	33	6	3/4
32	33	6	1
40	33	8	1 1/4
50	33	8	1 1/2
63	33	8	2



PF 3 39 980 032



3-Way ball valve type 185 PVC-C

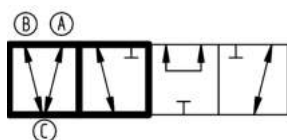
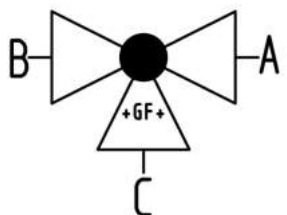
Horizontal/T-port 24V

With manual emergency override

With solvent cement sockets metric

Model:

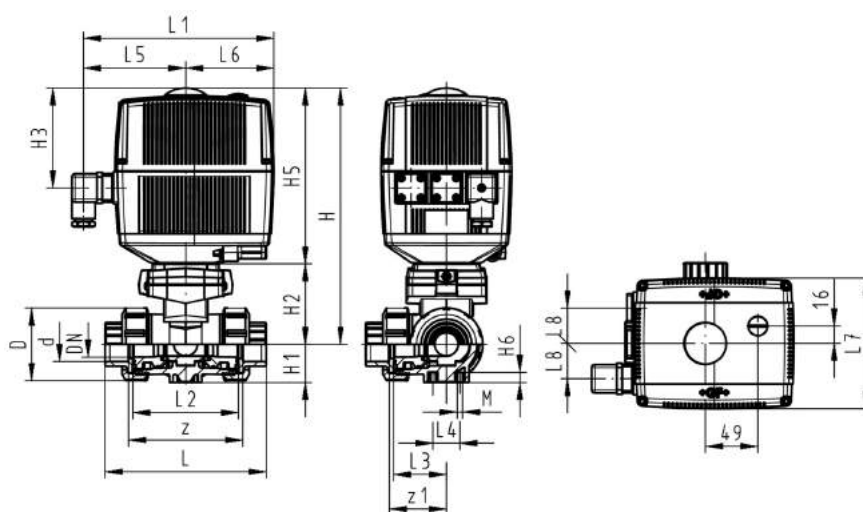
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless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



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	140	199 185 322	1	2.142	199 185 332	1	2.142	
20	15	10	200	199 185 323	1	2.148	199 185 333	1	2.148	
25	20	10	470	199 185 324	1	2.285	199 185 334	1	2.285	
32	25	10	793	199 185 325	1	2.486	199 185 335	1	2.486	
40	32	10	1290	199 185 326	1	2.939	199 185 336	1	2.939	
50	40	10	1910	199 185 327	1	3.419	199 185 337	1	3.419	
63	50	10	3100	199 185 328	1	4.867	199 185 338	1	4.867	

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]	closest inch [inch]
16	33	6	81	40	$\frac{3}{8}$
20	33	6	81	40	$\frac{1}{2}$
25	33	6	94	47	$\frac{3}{4}$
32	33	6	107	54	1
40	33	8	130	65	$1 \frac{1}{4}$
50	33	8	143	72	$1 \frac{1}{2}$
63	33	8	185	92	2



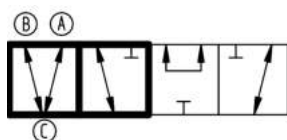
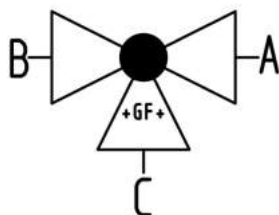
PF 3 39 980 032



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

Model:

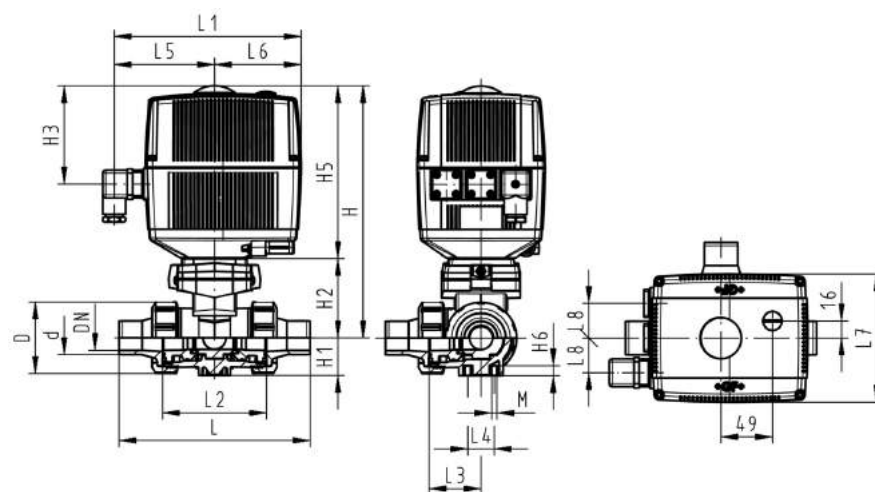
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless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



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	140	199 185 302	1	2.148	199 185 312	1	2.148	
20	15	10	200	199 185 303	1	2.158	199 185 313	1	2.158	
25	20	10	470	199 185 304	1	2.301	199 185 314	1	2.301	
32	25	10	793	199 185 305	1	2.512	199 185 315	1	2.512	
40	32	10	1290	199 185 306	1	2.961	199 185 316	1	2.961	
50	40	10	1910	199 185 307	1	3.487	199 185 317	1	3.487	
63	50	10	3100	199 185 308	1	5.004	199 185 318	1	5.004	

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	closest inch [inch]
16	33	6	$\frac{3}{8}$
20	33	6	$\frac{1}{2}$
25	33	6	$\frac{3}{4}$
32	33	6	1
40	33	8	$1 \frac{1}{4}$
50	33	8	$1 \frac{1}{2}$
63	33	8	2



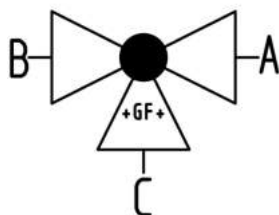
PF 3 39 980 032



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

Model:

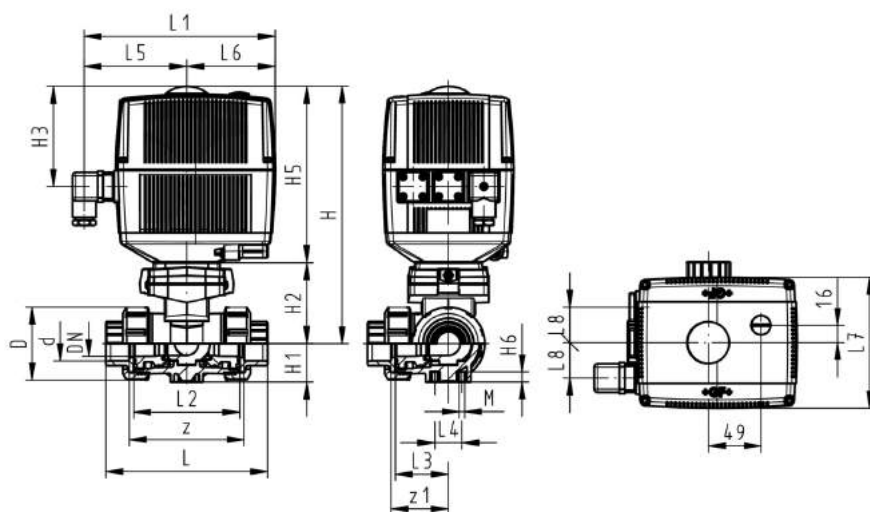
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless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



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	50	199 185 102	1	2.143	199 185 112	1	2.143	
20	15	10	75	199 185 103	1	2.149	199 185 113	1	2.149	
25	20	10	150	199 185 104	1	2.287	199 185 114	1	2.287	
32	25	10	280	199 185 105	1	2.493	199 185 115	1	2.493	
40	32	10	480	199 185 106	1	2.950	199 185 116	1	2.950	
50	40	10	620	199 185 107	1	3.441	199 185 117	1	3.441	
63	50	10	1230	199 185 108	1	4.916	199 185 118	1	4.916	

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]	closest inch [inch]
16	33	6	81	40	$\frac{3}{8}$
20	33	6	81	40	$\frac{1}{2}$
25	33	6	94	47	$\frac{3}{4}$
32	33	6	107	54	1
40	33	8	130	65	$1 \frac{1}{4}$
50	33	8	143	72	$1 \frac{1}{2}$
63	33	8	185	92	2



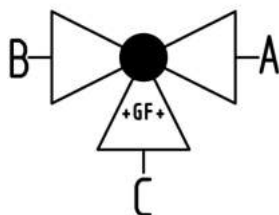
PF 3 39 980 032



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

Model:

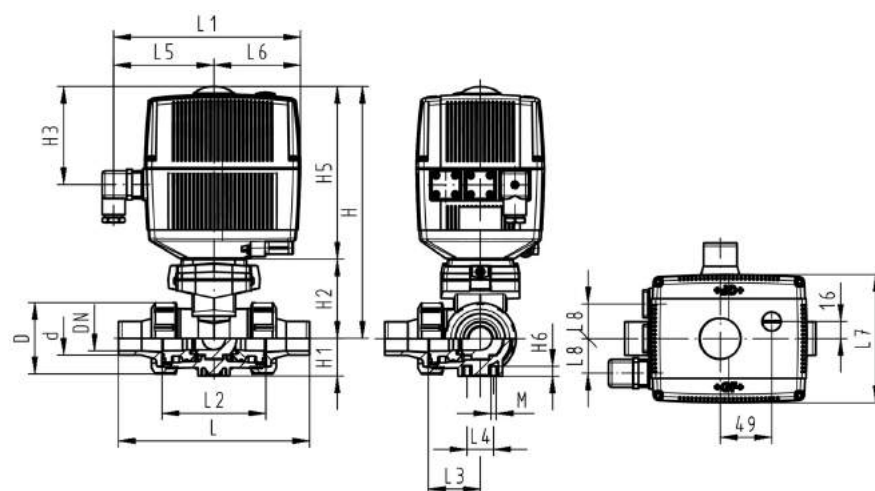
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless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



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	50	199 185 082	1	2.149	199 185 092	1	2.149	
20	15	10	75	199 185 083	1	2.159	199 185 093	1	2.159	
25	20	10	150	199 185 084	1	2.303	199 185 094	1	2.303	
32	25	10	280	199 185 085	1	2.519	199 185 095	1	2.519	
40	32	10	480	199 185 086	1	2.973	199 185 096	1	2.973	
50	40	10	620	199 185 087	1	3.510	199 185 097	1	3.510	
63	50	10	1230	199 185 088	1	5.053	199 185 098	1	5.053	

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	closest inch [inch]
16	33	6	$\frac{3}{8}$
20	33	6	$\frac{1}{2}$
25	33	6	$\frac{3}{4}$
32	33	6	1
40	33	8	1 $\frac{1}{4}$
50	33	8	1 $\frac{1}{2}$
63	33	8	2



PF 3 39 980 032



3-Way ball valve type 185 PVC-C

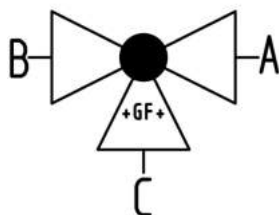
Horizontal/L-port 24V

With manual emergency override

With solvent cement sockets metric

Model:

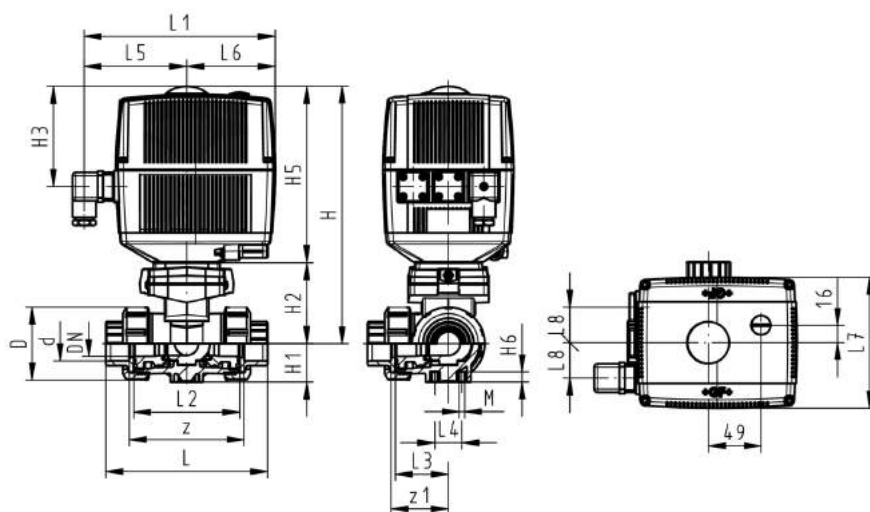
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless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



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	50	199 185 262	1	2.143	199 185 272	1	2.143	
20	15	10	75	199 185 263	1	2.149	199 185 273	1	2.149	
25	20	10	150	199 185 264	1	2.287	199 185 274	1	2.287	
32	25	10	280	199 185 265	1	2.493	199 185 275	1	2.493	
40	32	10	480	199 185 266	1	2.950	199 185 276	1	2.950	
50	40	10	620	199 185 267	1	3.766	199 185 277	1	3.441	
63	50	10	1230	199 185 268	1	4.916	199 185 278	1	4.916	

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]	closest inch [inch]
16	33	6	81	40	$\frac{3}{8}$
20	33	6	81	40	$\frac{1}{2}$
25	33	6	94	47	$\frac{3}{4}$
32	33	6	107	54	1
40	33	8	130	65	$1 \frac{1}{4}$
50	33	8	143	72	$1 \frac{1}{2}$
63	33	8	185	92	2



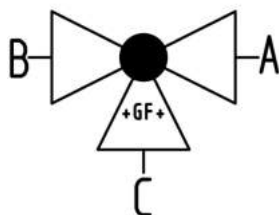
PF 3 39 980 032



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

Model:

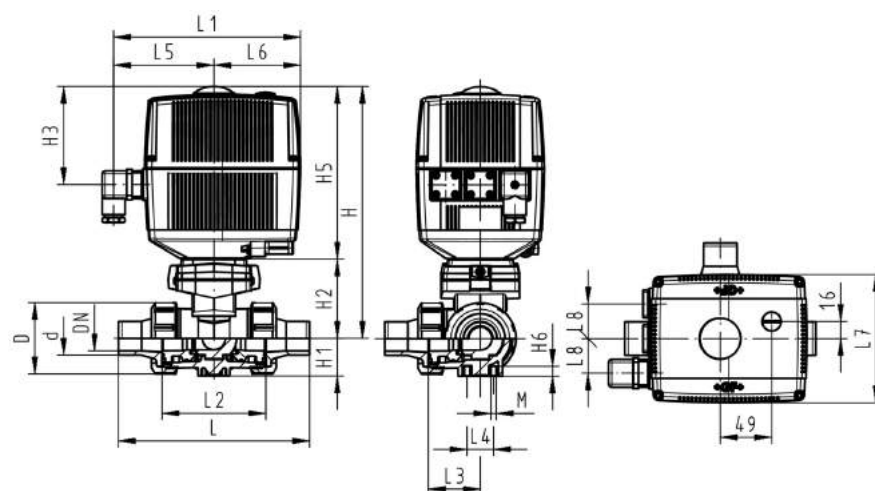
- Built on with electric actuator EA21
- Voltage 24 V AC/DC
- Control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel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



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	50	199 185 282	1	2.149	199 185 292	1	2.149	
20	15	10	75	199 185 283	1	2.159	199 185 293	1	2.159	
25	20	10	150	199 185 284	1	2.303	199 185 294	1	2.303	
32	25	10	280	199 185 285	1	2.519	199 185 295	1	2.519	
40	32	10	480	199 185 286	1	2.973	199 185 296	1	2.973	
50	40	10	620	199 185 287	1	3.510	199 185 297	1	3.510	
63	50	10	1230	199 185 288	1	5.053	199 185 298	1	5.053	

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	closest inch [inch]
16	33	6	$\frac{3}{8}$
20	33	6	$\frac{1}{2}$
25	33	6	$\frac{3}{4}$
32	33	6	1
40	33	8	$1 \frac{1}{4}$
50	33	8	$1 \frac{1}{2}$
63	33	8	2



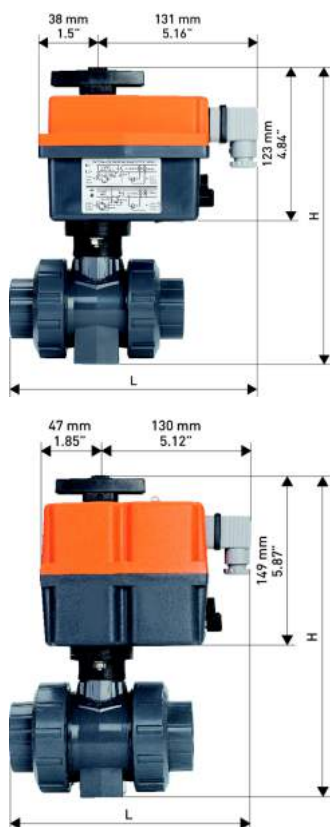
PF 3 39 980 032

104

Ball valve type 104 PVC-C 100-230V With solvent cement sockets metric

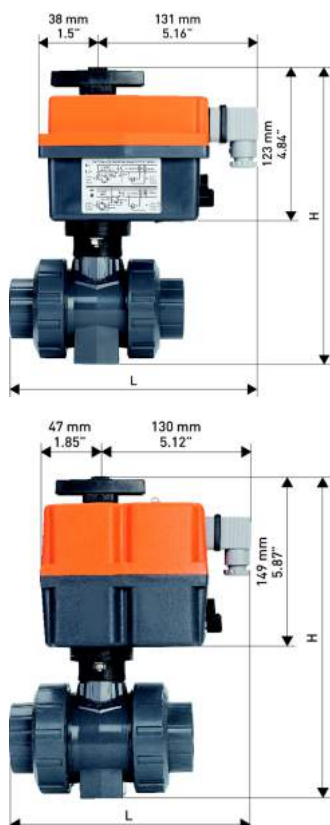
Model:

- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	H [mm]	L [mm]	Type of ac- tuator	B [mm]
16	10	10	70	199 104 102	199 104 112	194	178.5	10Nm	50
20	15	10	185	199 104 103	199 104 113	194	178.5	10Nm	50
25	20	10	350	199 104 104	199 104 114	207	186.0	10Nm	58
32	25	10	700	199 104 105	199 104 115	217	192.5	10Nm	68
40	32	10	1000	199 104 106	199 104 116	236	204.5	10Nm	84
50	40	10	1600	199 104 107	199 104 117	275	208.5	20Nm	97
63	50	10	3100	199 104 108	199 104 118	307	221.5	20Nm	124

Ball valve type 104 PVC-C 24V With solvent cement sockets metric



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	H [mm]	L [mm]	Type of ac- tuator	B [mm]
16	10	10	70	199 104 142	199 104 152	194	178.5	10Nm	50
20	15	10	185	199 104 143	199 104 153	194	178.5	10Nm	50
25	20	10	350	199 104 144	199 104 154	207	186.0	10Nm	58
32	25	10	700	199 104 145	199 104 155	217	192.5	10Nm	68
40	32	10	1000	199 104 146	199 104 156	236	204.5	10Nm	84
50	40	10	1600	199 104 147	199 104 157	275	208.5	20Nm	97
63	50	10	3100	199 104 148	199 104 158	307	221.5	20Nm	124

Ball valves pneumatic

230

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

Without manual override

With solvent cement sockets metric

Model:

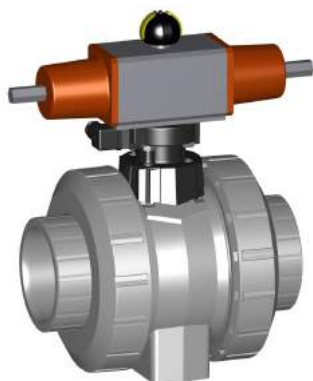
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

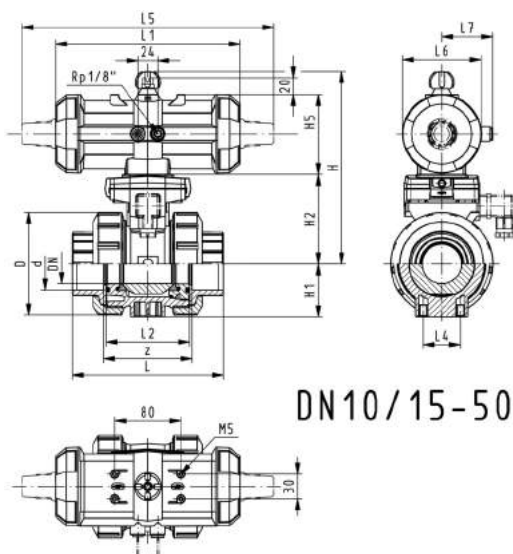


DN10/15 - 50

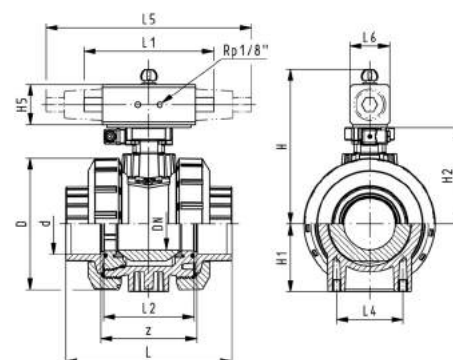


d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	10	70	199 230 522	1	1.159	199 230 532	1	1.159
20	15	10	185	199 230 523	1	1.553	199 230 533	1	1.159
25	20	10	350	199 230 524	1	1.276	199 230 534	1	1.276
32	25	10	700	199 230 525	1	1.400	199 230 535	1	1.262
40	32	10	1000	199 230 526	1	2.451	199 230 536	1	2.226
50	40	10	1600	199 230 527	1	2.773	199 230 537	1	2.773
63	50	10	3100	199 230 528	1	3.250	199 230 538	1	3.631
75	65	10	5000	199 230 529	1	8.100	199 230 539	1	8.100
90	80	10	7000	199 230 530	1	10.800	199 230 540	1	10.800
110	100	10	11000	199 230 531	1	16.500	199 230 541	1	16.500

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]	closest inch [inch]
16	50	159	27	62	77	92	194	56	25	261	76	48	64	3/8
20	50	159	27	62	77	95	194	56	25	261	76	48	64	1/2
25	58	168	30	71	77	110	194	65	25	261	76	48	72	3/4
32	68	168	36	71	77	123	194	71	25	261	76	48	79	1
40	84	202	44	84	99	146	224	85	45	305	95	59	94	1 1/4
50	97	202	51	84	99	157	224	89	45	305	95	59	95	1 1/2
63	124	225	64	106	99	183	224	101	45	305	95	59	107	2
75	166	262	85	156	70	233		136	70	276	65		144	2 1/2
90	200	281	105	168	78	254		141	70	341	72		151	3
110	238	292	123	175	86	301		164	120	369	80		174	4



DN10/15-50



DN65-100



DN10/15 - 50

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°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

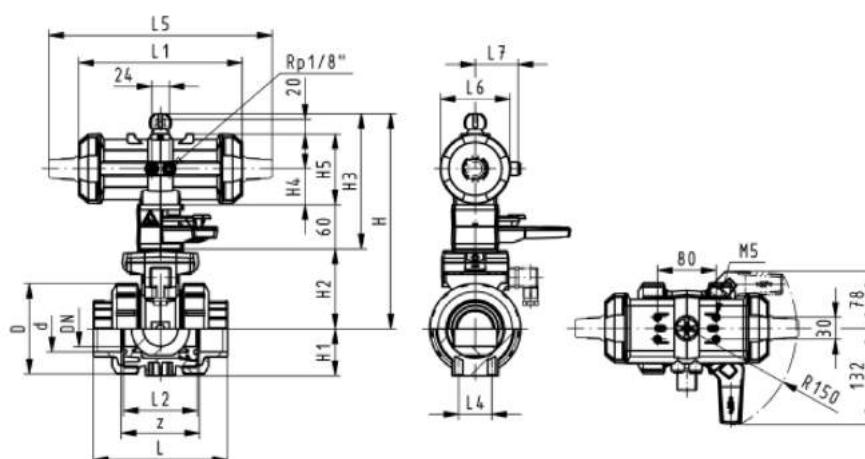
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 230 402	1	1.459	199 230 412	1	1.459	
20	15	10	185	199 230 403	1	1.459	199 230 413	1	1.459	
25	20	10	350	199 230 404	1	1.576	199 230 414	1	1.576	
32	25	10	700	199 230 405	1	1.700	199 230 415	1	1.496	
40	32	10	1000	199 230 406	1	2.477	199 230 416	1	2.751	
50	40	10	1600	199 230 407	1	3.073	199 230 417	1	2.736	
63	50	10	3100	199 230 408	1	4.471	199 230 418	1	3.530	

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	230	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	230	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	239	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	239	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	271	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	271	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	293	64	106	187	51	99	183	224	101	45	305	95	59	107

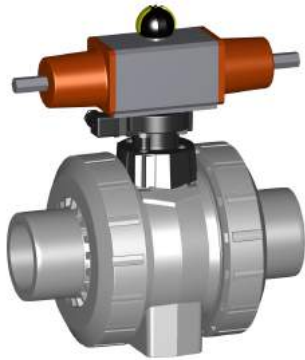
d [mm]	closest inch [inch]	
16	3/8	
20	1/2	
25	3/4	
32	1	
40	1 1/4	
50	1 1/2	
63	2	



PF 3 39 696 032



DN10/15 - 50



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

Model:

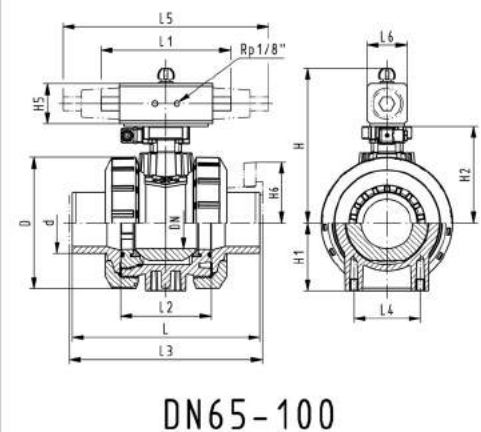
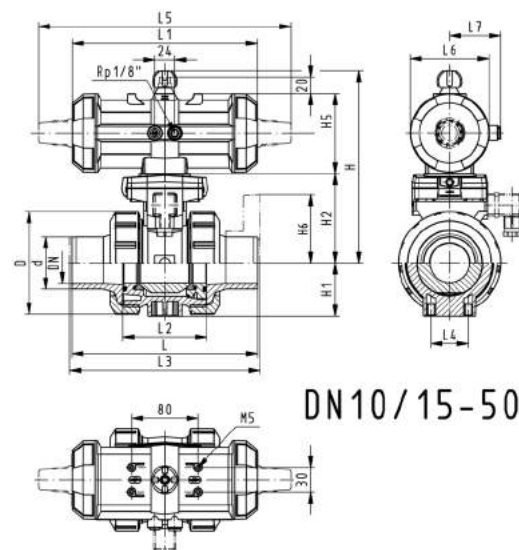
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 230 542	1	1.159	199 230 552	1	1.159	
20	15	10	185	199 230 543	1	1.159	199 230 553	1	1.159	
25	20	10	350	199 230 544	1	1.276	199 230 554	1	1.276	
32	25	10	700	199 230 545	1	1.400	199 230 555	1	1.400	
40	32	10	1000	199 230 546	1	2.451	199 230 556	1	2.451	
50	40	10	1600	199 230 547	1	2.773	199 230 557	1	2.773	
63	50	10	3100	199 230 548	1	3.314	199 230 558	1	3.631	
75	65	10	5000	199 230 549	1	8.300	199 230 559	1	8.300	
90	80	10	7000	199 230 550	1	11.000	199 230 560	1	11.000	
110	100	10	11000	199 230 551	1	16.700	199 230 561	1	16.700	

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]	closest inch [inch]
16	50	159	27	62	77	114	194	56	0	25	261	76	48	3/8
20	50	159	27	62	77	124	194	56	130	25	261	76	48	1/2
25	58	168	30	71	77	144	194	65	150	25	261	76	48	3/4
32	68	168	36	71	77	154	194	71	160	25	261	76	48	1
40	84	202	44	84	99	174	224	85	180	45	305	95	59	1 1/4
50	97	202	51	84	99	194	224	89	200	45	305	95	59	1 1/2
63	124	225	64	106	99	224	224	101	230	45	305	95	59	2
75	166	262	85	156	70	284		136	290	70	276	65		2 1/2
90	200	281	105	168	78	300		141	310	70	341	72		3
110	238	292	123	175	86	340		164	350	120	369	80		4



PF 3 39 696 032



DN10/15 - 50

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°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

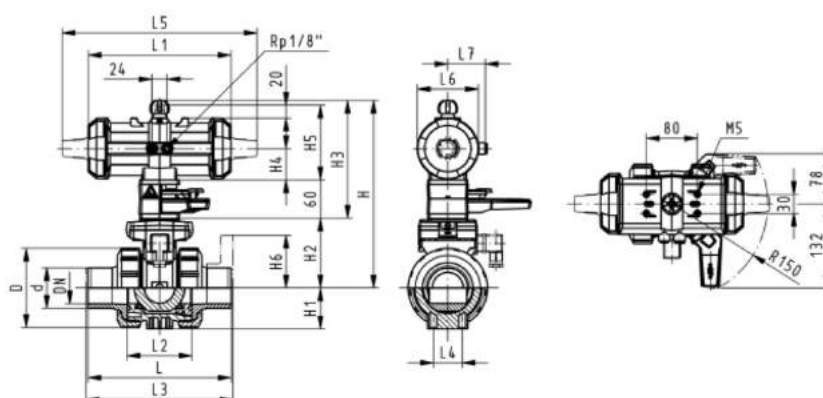
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 230 422	1	1.459	199 230 432	1	1.459	
20	15	10	185	199 230 423	1	1.459	199 230 433	1	1.459	
25	20	10	350	199 230 424	1	1.576	199 230 434	1	1.576	
32	25	10	700	199 230 425	1	1.700	199 230 435	1	1.700	
40	32	10	1000	199 230 426	1	2.751	199 230 436	1	2.751	
50	40	10	1600	199 230 427	1	3.073	199 230 437	1	3.073	
63	50	10	3100	199 230 428	1	3.931	199 230 438	1	3.931	

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

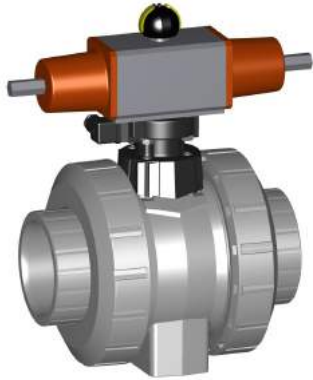
d [mm]	closest inch [inch]	
16	3/8	
20	1/2	
25	3/4	
32	1	
40	1 1/4	
50	1 1/2	
63	2	



PF 3 39 696 032



DN10/15 - 50



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

Model:

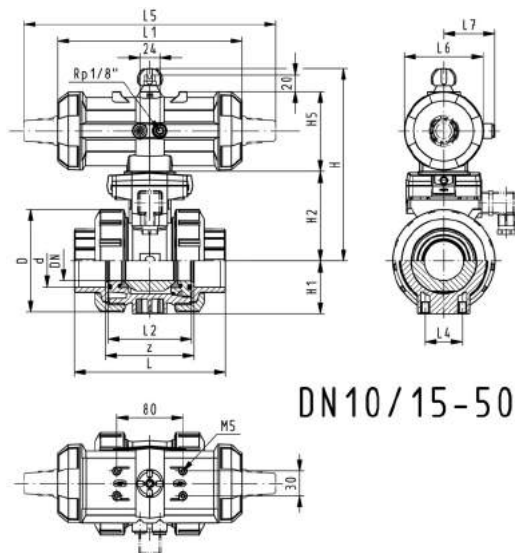
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

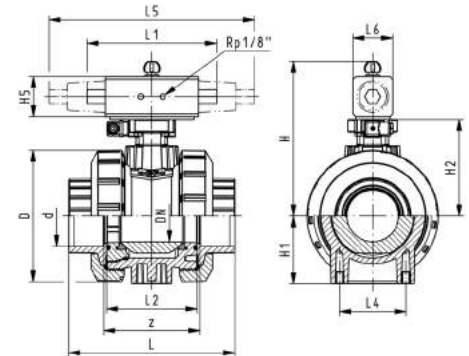
- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
3/8	10	10	70	199 230 872	1	1.200	199 230 892	1	1.200	
1/2	15	10	185	199 230 873	1	1.200	199 230 893	1	1.200	
3/4	20	10	350	199 230 874	1	1.300	199 230 894	1	1.300	
1	25	10	700	199 230 875	1	1.400	199 230 895	1	1.400	
1 1/4	32	10	1000	199 230 876	1	2.500	199 230 896	1	2.500	
1 1/2	40	10	1600	199 230 877	1	2.800	199 230 897	1	2.800	
2	50	10	3100	199 230 878	1	3.700	199 230 898	1	3.700	
2 1/2	65	10	5000	199 230 879	1	8.200	199 230 899	1	8.200	
3	80	10	7000	199 230 880	1	11.000	199 230 900	1	11.000	
4	100	10	11000	199 230 881	1	16.500	199 230 901	1	16.500	

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	

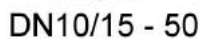


DN10/15-50



DN65-100

PF 3 39 696 032



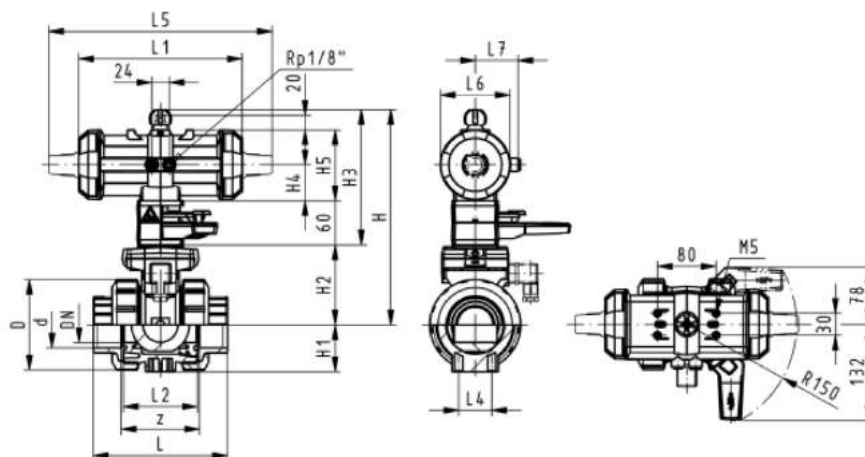
Model:

- Option:**

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
⅜	10	10	70	199 230 752	1	1.500	199 230 772	1	1.500	
½	15	10	185	199 230 753	1	1.500	199 230 773	1	1.500	
¾	20	10	350	199 230 754	1	1.600	199 230 774	1	1.600	
1	25	10	700	199 230 755	1	1.700	199 230 775	1	1.700	
1 ¼	32	10	1000	199 230 756	1	2.800	199 230 776	1	2.800	
1 ½	40	10	1600	199 230 757	1	3.100	199 230 777	1	3.100	
2	50	10	3100	199 230 758	1	4.000	199 230 778	1	4.000	

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



PF 3 39 696 032



Ball valve type 230 PVC-C FC (Fail safe to close) Without manual override With backing flanges PP-st metric

Model:

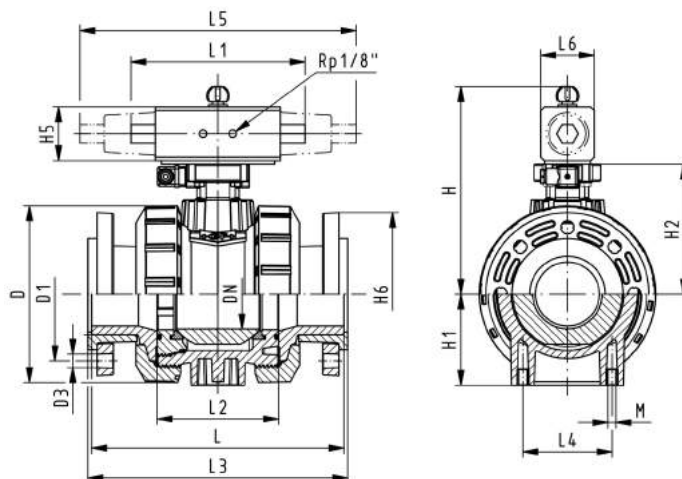
- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504,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

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
75	65	10	5000	199 234 609	1	12.300	199 234 619	1	12.300	
90	80	10	7000	199 234 610	1	15.800	199 234 620	1	15.800	
110	100	10	11000	199 234 611	1	23.200	199 234 621	1	23.200	

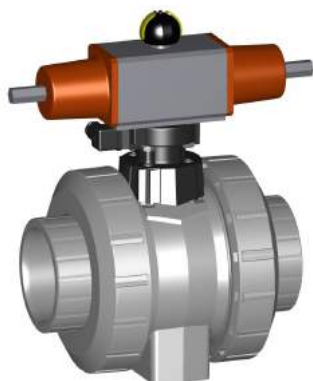
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	
75	166	262	85	156	70	93	284	136	290	70	276	65	
90	200	281	105	168	78	100	300	141	310	70	341	72	
110	238	292	123	175	86	110	340	164	350	120	369	80	



PF 3 39 696 032



DN10/15 - 50



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

Model:

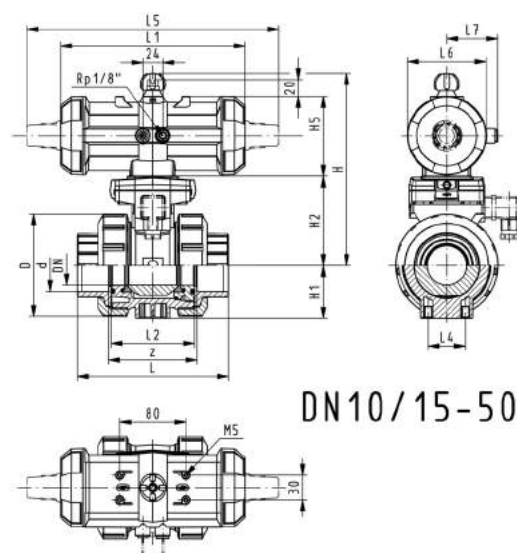
- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

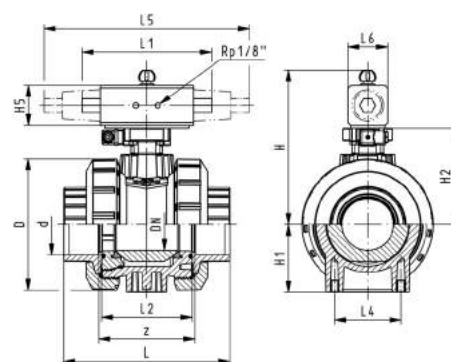
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 230 562	1	1.159	199 230 572	1	1.159	
20	15	10	185	199 230 563	1	1.159	199 230 573	1	1.159	
25	20	10	350	199 230 564	1	1.276	199 230 574	1	1.276	
32	25	10	700	199 230 565	1	1.400	199 230 575	1	1.400	
40	32	10	1000	199 230 566	1	2.451	199 230 576	1	2.451	
50	40	10	1600	199 230 567	1	2.773	199 230 577	1	2.773	
63	50	10	3100	199 230 568	1	3.631	199 230 578	1	3.631	
75	65	10	5000	199 230 569	1	8.100	199 230 579	1	8.100	
90	80	10	7000	199 230 570	1	10.800	199 230 580	1	10.800	
110	100	10	11000	199 230 571	1	16.500	199 230 581	1	16.500	

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]	closest inch [inch]
16	50	159	27	62	77	92	194	56	25	261	76	48	64	3/8
20	50	159	27	62	77	95	194	56	25	261	76	48	64	1/2
25	58	168	30	71	77	110	194	65	25	261	76	48	72	3/4
32	68	168	36	71	77	123	194	71	25	261	76	48	79	1
40	84	202	44	84	99	146	224	85	45	305	95	59	94	1 1/4
50	97	202	51	84	99	157	224	89	45	305	95	59	95	1 1/2
63	124	225	64	106	99	183	224	101	45	305	95	59	107	2
75	166	262	85	156	70	233		136	70	276	65		144	2 1/2
90	200	281	105	168	78	254		141	70	341	72		151	3
110	238	292	123	175	86	301		164	120	369	80		174	4



DN10/15-50



DN65-100

PF 3 39 696 032



Ball valve type 230 PVC-C 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)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

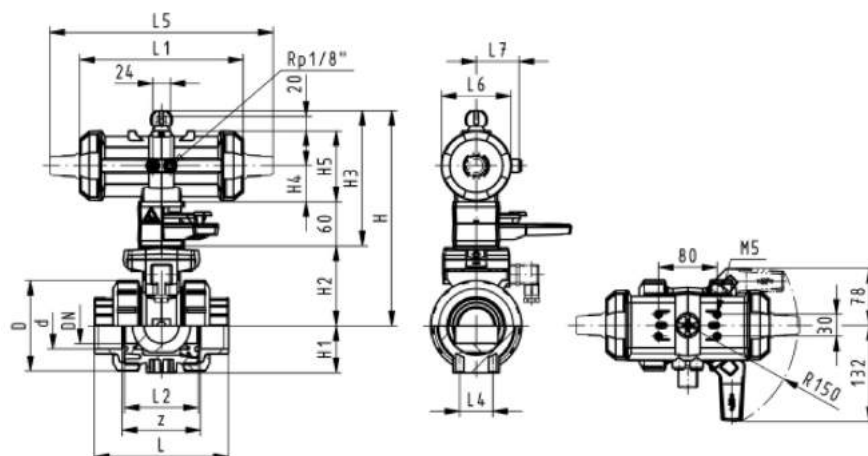
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 230 442	1	1.459	199 230 452	1	1.149	
20	15	10	185	199 230 443	1	1.459	199 230 453	1	1.459	
25	20	10	350	199 230 444	1	1.576	199 230 454	1	1.576	
32	25	10	700	199 230 445	1	1.700	199 230 455	1	1.700	
40	32	10	1000	199 230 446	1	2.751	199 230 456	1	2.751	
50	40	10	1600	199 230 447	1	3.073	199 230 457	1	3.073	
63	50	10	3100	199 230 448	1	3.931	199 230 458	1	3.931	

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	230	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	230	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	239	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	239	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	271	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	271	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	293	64	106	187	51	99	183	224	101	45	305	95	59	107

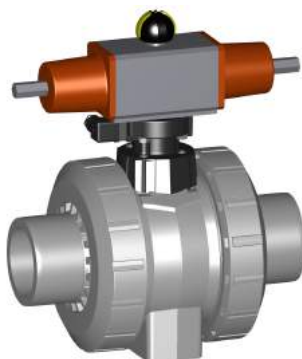
d [mm]	closest inch [inch]	
16	3/4	
20	1/2	
25	3/4	
32	1	
40	1 1/4	
50	1 1/2	
63	2	



PF 3 39 696 032



DN10/15 - 50



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

Model:

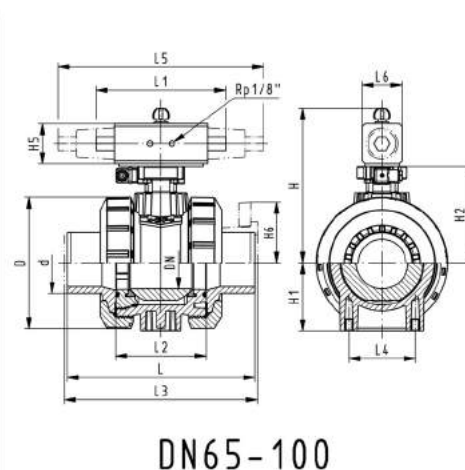
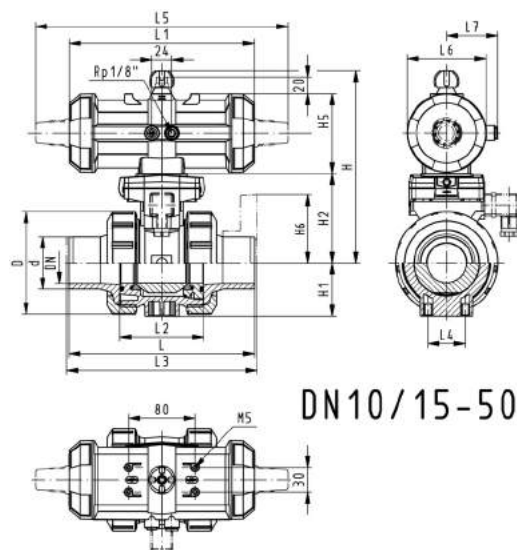
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 230 582	1	1.159	199 230 592	1	1.159	
20	15	10	185	199 230 583	1	1.159	199 230 593	1	1.159	
25	20	10	350	199 230 584	1	1.276	199 230 594	1	1.276	
32	25	10	700	199 230 585	1	1.400	199 230 595	1	1.400	
40	32	10	1000	199 230 586	1	2.451	199 230 596	1	2.451	
50	40	10	1600	199 230 587	1	2.773	199 230 597	1	2.773	
63	50	10	3100	199 230 588	1	3.631	199 230 598	1	3.631	
75	65	10	5000	199 230 589	1	8.300	199 230 599	1	8.300	
90	80	10	7000	199 230 590	1	11.000	199 230 600	1	11.000	
110	100	10	11000	199 230 591	1	16.700	199 230 601	1	16.700	

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]	closest inch [inch]
16	50	159	27	62	77	114	194	56	130	25	261	76	48	3/8
20	50	159	27	62	77	124	194	56	130	25	261	76	48	1/2
25	58	168	30	71	77	144	194	65	150	25	261	76	48	3/4
32	68	168	36	71	77	154	194	71	160	25	261	76	48	1
40	84	202	44	84	99	174	224	85	180	45	305	95	59	1 1/4
50	97	202	51	84	99	194	224	89	200	45	305	95	59	1 1/2
63	124	225	64	106	99	224	224	101	230	45	305	95	59	2
75	166	262	85	156	70	284		136	290	70	276	65		2 1/2
90	200	281	105	168	78	300		141	310	70	341	72		3
110	238	292	123	175	86	340		164	350	120	369	80		4



PF 3 39 696 032



DN10/15 - 50

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

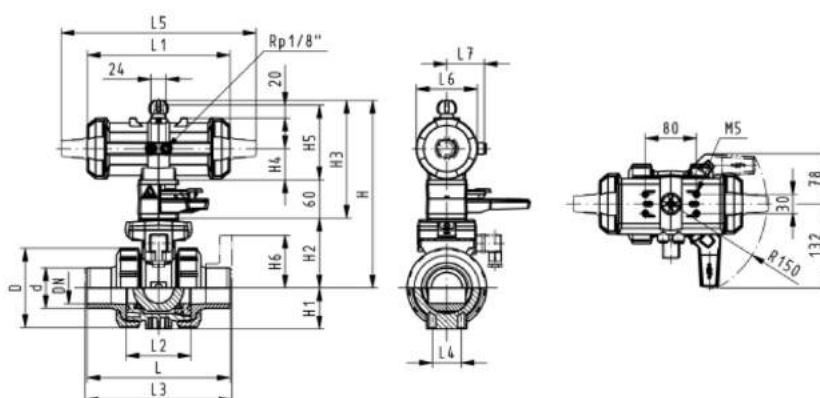
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 230 462	1	1.459	199 230 472	1	1.459	
20	15	10	185	199 230 463	1	1.459	199 230 473	1	1.459	
25	20	10	350	199 230 464	1	1.576	199 230 474	1	1.576	
32	25	10	700	199 230 465	1	1.700	199 230 475	1	1.700	
40	32	10	1000	199 230 466	1	2.751	199 230 476	1	2.751	
50	40	10	1600	199 230 467	1	3.073	199 230 477	1	3.073	
63	50	10	3100	199 230 468	1	3.931	199 230 478	1	3.931	

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

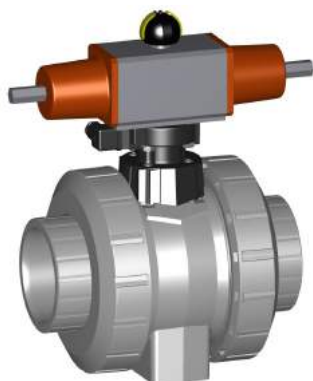
d [mm]	closest inch [inch]	
16	3/4	
20	1/2	
25	3/4	
32	1	
40	1 1/4	
50	1 1/2	
63	2	



PF 3 39 696 032



DN10/15 - 50



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

Model:

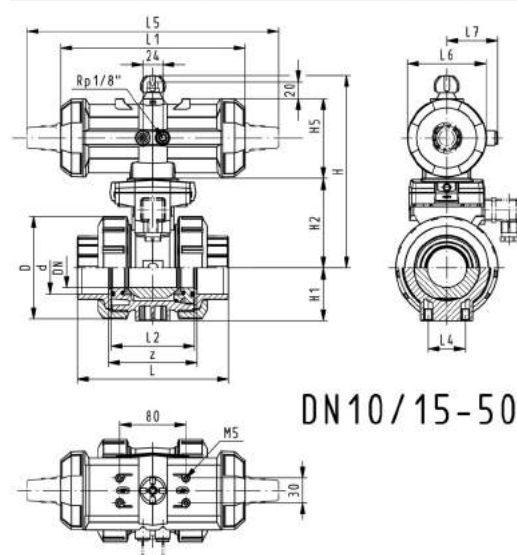
- Control time 90° < 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

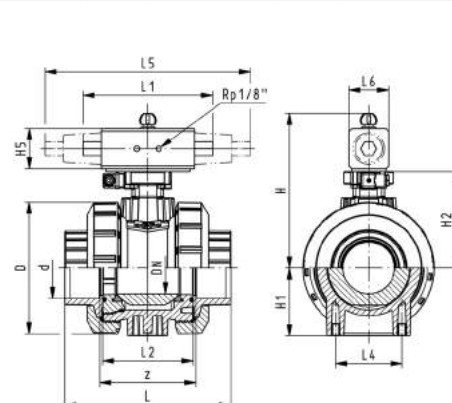
- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
3/8	10	10	70	199 230 912	1	1.200	199 230 932	1	1.200
1/2	15	10	185	199 230 913	1	1.200	199 230 933	1	1.200
3/4	20	10	350	199 230 914	1	1.300	199 230 934	1	1.300
1	25	10	700	199 230 915	1	1.400	199 230 935	1	1.400
1 1/4	32	10	1000	199 230 916	1	2.500	199 230 936	1	2.500
1 1/2	40	10	1600	199 230 917	1	2.800	199 230 937	1	2.800
2	50	10	3100	199 230 918	1	3.700	199 230 938	1	3.700
2 1/2	65	10	5000	199 230 919	1	8.200	199 230 939	1	8.200
3	80	10	7000	199 230 920	1	11.000	199 230 940	1	11.000
4	100	10	11000	199 230 921	1	16.500	199 230 941	1	16.500

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

PF 3 39 696 032



DN10/15 - 50

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

Model:

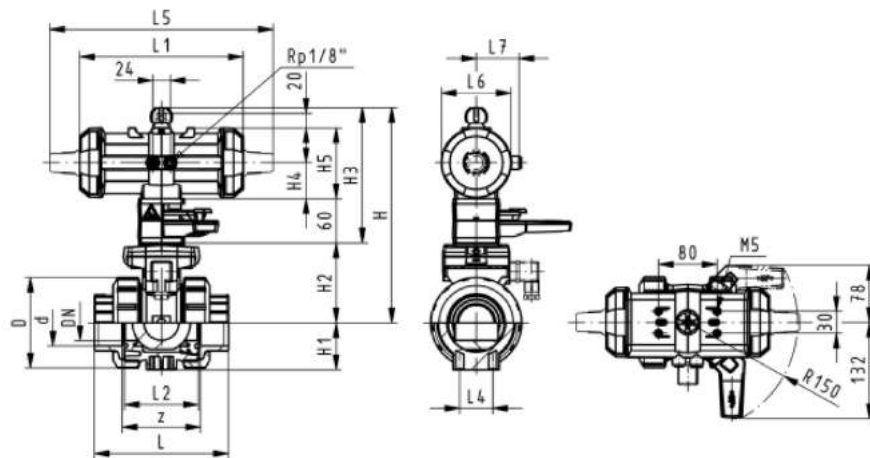
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
3/8	10	10	70	199 230 792	1	1.500	199 230 812	1	1.500	
1/2	15	10	185	199 230 793	1	1.500	199 230 813	1	1.500	
3/4	20	10	350	199 230 794	1	1.600	199 230 814	1	1.600	
1	25	10	700	199 230 795	1	1.700	199 230 815	1	1.700	
1 1/4	32	10	1000	199 230 796	1	2.800	199 230 816	1	2.800	
1 1/2	40	10	1600	199 230 797	1	3.100	199 230 817	1	3.100	
2	50	10	3100	199 230 798	1	4.000	199 230 818	1	4.000	

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



PF 3 39 696 032



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

Model:

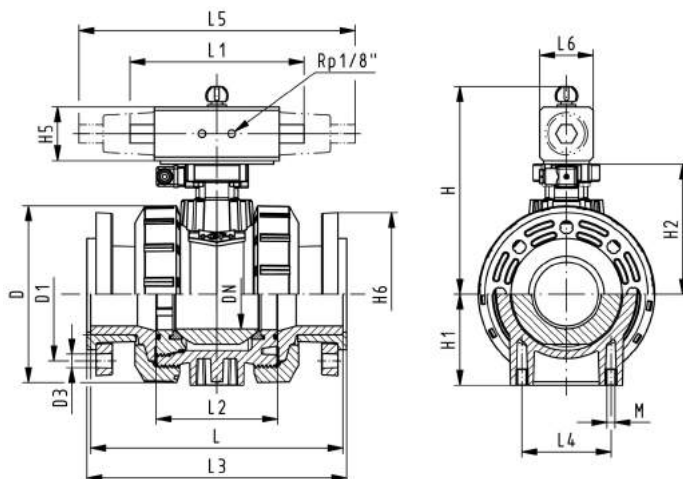
- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504,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

Option:

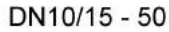
- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
75	65	10	5000	199 234 629	1	12.300	199 234 639	1	12.300	
90	80	10	7000	199 234 630	1	15.800	199 234 640	1	15.800	
110	100	10	11000	199 234 631	1	23.200	199 234 641	1	23.200	

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	



PF 3 39 696 032

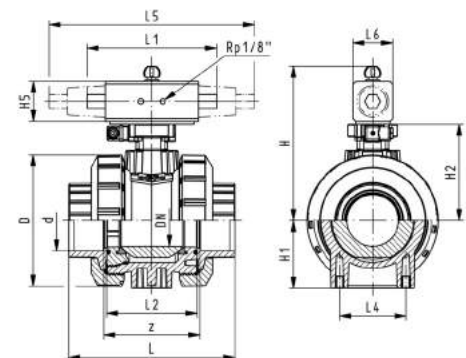
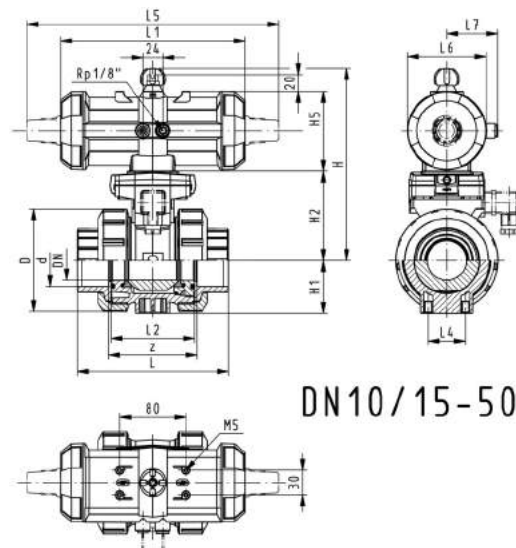


- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 230 602	1	1.159	199 230 612	1	1.159	
20	15	10	185	199 230 603	1	1.159	199 230 613	1	1.159	
25	20	10	350	199 230 604	1	1.276	199 230 614	1	1.276	
32	25	10	700	199 230 605	1	1.400	199 230 615	1	1.400	
40	32	10	1000	199 230 606	1	2.451	199 230 616	1	1.738	
50	40	10	1600	199 230 607	1	2.773	199 230 617	1	1.991	
63	50	10	3100	199 230 608	1	3.631	199 230 618	1	3.631	
75	65	10	5000	199 230 609	1	7.000	199 230 619	1	7.000	
90	80	10	7000	199 230 610	1	10.200	199 230 620	1	10.200	
110	100	10	11000	199 230 611	1	14.700	199 230 621	1	14.700	

d	D	H	H1	H2	H5	L	L1	L2	L4	L5	L6	L7	z	closest inch	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
16	50	159	27	62	77	92	194	56	25	261	76	48	64	3/8	
20	50	159	27	62	77	95	194	56	25	261	76	48	64	1/2	
25	58	168	30	71	77	110	194	65	25	261	76	48	72	3/4	
32	68	168	36	71	77	123	194	71	25	261	76	48	79	1	
40	84	202	44	84	99	146	224	85	45	305	95	59	94	1 1/4	
50	97	202	51	84	99	157	224	89	45	305	95	59	95	1 1/2	
63	124	225	64	106	99	183	224	101	45	305	95	59	107	2	
75	166	257	85	156	66	233	144	136	70		60		144	2 1/2	
90	200	274	105	168	70	254	152	141	70		65		151	3	
110	238	273	123	175	78	301	169	164	120		72		174	4	



DN10/15-50

DN65-100



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

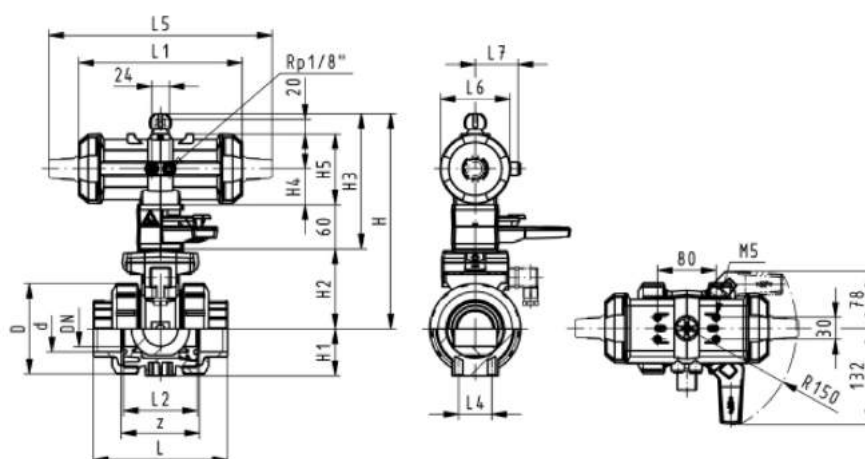
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 230 482	1	1.459	199 230 492	1	1.459	
20	15	10	185	199 230 483	1	1.459	199 230 493	1	1.459	
25	20	10	350	199 230 484	1	1.576	199 230 494	1	1.576	
32	25	10	700	199 230 485	1	1.269	199 230 495	1	1.700	
40	32	10	1000	199 230 486	1	2.751	199 230 496	1	2.751	
50	40	10	1600	199 230 487	1	3.073	199 230 497	1	3.073	
63	50	10	3100	199 230 488	1	3.931	199 230 498	1	3.931	

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	230	27	62	168	40	77	92	194	56	25	261	76	48	64
20	50	230	27	62	168	40	77	95	194	56	25	261	76	48	64
25	58	239	30	71	168	40	77	110	194	65	25	261	76	48	72
32	68	239	36	71	168	40	77	123	194	71	25	261	76	48	79
40	84	271	44	84	187	51	99	146	224	85	45	305	95	59	94
50	97	271	51	84	187	51	99	157	224	89	45	305	95	59	95
63	124	293	64	106	187	51	99	183	224	101	45	305	95	59	107

d [mm]	closest inch [inch]	
16	3/8	
20	1/2	
25	3/4	
32	1	
40	1 1/4	
50	1 1/2	
63	2	



PF 3 39 696 032



DN10/15 - 50



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

Model:

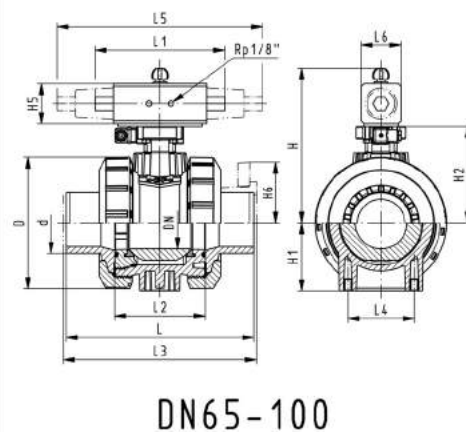
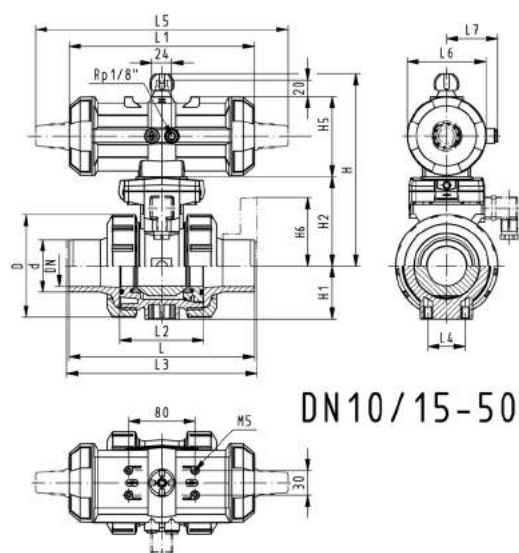
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 230 622	1	1.159	199 230 632	1	1.159	
20	15	10	185	199 230 623	1	1.159	199 230 633	1	1.159	
25	20	10	350	199 230 624	1	1.276	199 230 634	1	1.276	
32	25	10	700	199 230 625	1	1.400	199 230 635	1	1.052	
40	32	10	1000	199 230 626	1	2.451	199 230 636	1	2.451	
50	40	10	1600	199 230 627	1	2.773	199 230 637	1	2.773	
63	50	10	3100	199 230 628	1	3.631	199 230 638	1	3.631	
75	65	10	5000	199 230 629	1	7.200	199 230 639	1	7.200	
90	80	10	7000	199 230 630	1	10.400	199 230 640	1	10.400	
110	100	10	11000	199 230 631	1	15.000	199 230 641	1	15.000	

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]	closest inch [inch]
16	50	159	27	62	77	114	194	56	130	25	261	76	48	3/8
20	50	159	27	62	77	124	194	56	130	25	261	76	48	1/2
25	58	168	30	71	77	144	194	65	150	25	261	76	48	3/4
32	68	168	36	71	77	154	194	71	160	25	261	76	48	1
40	84	202	44	84	99	174	224	85	180	45	305	95	59	1 1/4
50	97	202	51	84	99	194	224	89	200	45	305	95	59	1 1/2
63	124	225	64	106	99	224	224	101	230	45	305	95	59	2
75	166	257	85	156	66	284	144	136	290	70		60		2 1/2
90	200	274	105	168	70	300	152	141	310	70		65		3
110	238	273	123	175	78	340	169	164	350	120		72		4



PF 3 39 696 032



DN10/15 - 50

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°<) 1-2 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

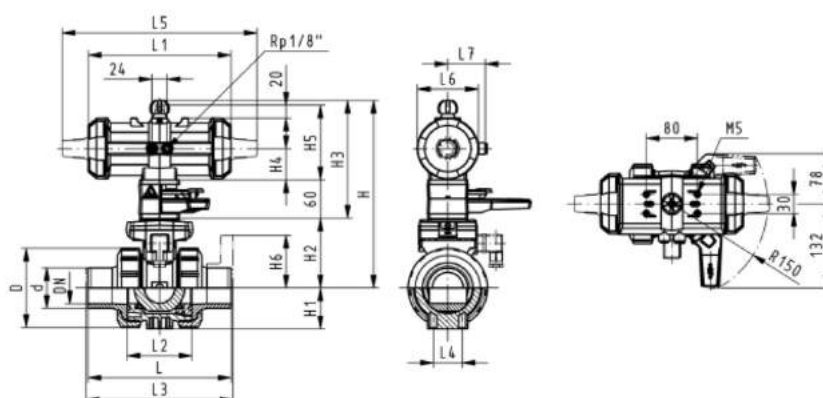
Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	70	199 230 502	1	1.459	199 230 512	1	1.459	
20	15	10	185	199 230 503	1	1.459	199 230 513	1	1.459	
25	20	10	350	199 230 504	1	1.576	199 230 514	1	1.576	
32	25	10	700	199 230 505	1	1.700	199 230 515	1	1.700	
40	32	10	1000	199 230 506	1	2.751	199 230 516	1	2.751	
50	40	10	1600	199 230 507	1	3.073	199 230 517	1	3.073	
63	50	10	3100	199 230 508	1	3.931	199 230 518	1	3.931	

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

d [mm]	closest inch [inch]	
16	$\frac{3}{8}$	
20	$\frac{1}{2}$	
25	$\frac{3}{4}$	
32	1	
40	1 $\frac{1}{4}$	
50	1 $\frac{1}{2}$	
63	2	



PF 3 39 696 032



DN10/15 - 50



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

Model:

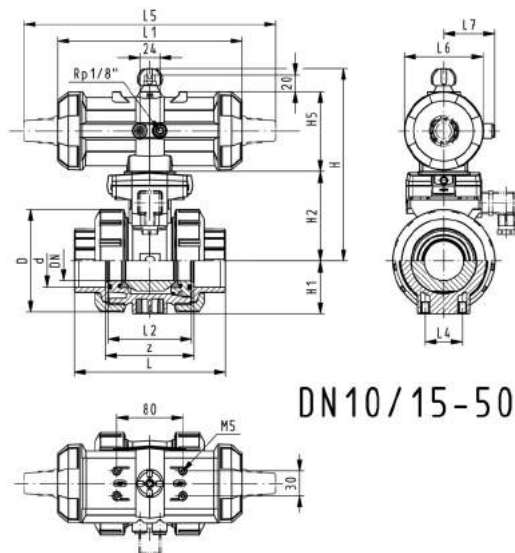
- Control time 90°<) 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

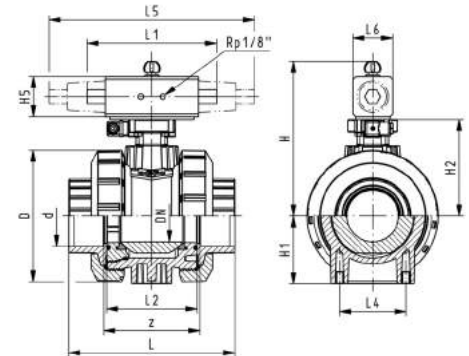
- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
3/8	10	10	70	199 230 942	1	1.200	199 230 952	1	1.200	
1/2	15	10	185	199 230 943	1	1.200	199 230 953	1	1.200	
3/4	20	10	350	199 230 944	1	1.300	199 230 954	1	1.300	
1	25	10	700	199 230 945	1	1.400	199 230 955	1	1.400	
1 1/4	32	10	1000	199 230 946	1	2.500	199 230 956	1	2.500	
1 1/2	40	10	1600	199 230 947	1	2.800	199 230 957	1	2.800	
2	50	10	3100	199 230 948	1	3.700	199 230 958	1	3.700	
2 1/2	65	10	5000	199 230 949	1	7.100	199 230 959	1	7.100	
3	80	10	7000	199 230 950	1	10.300	199 230 960	1	10.300	
4	100	10	11000	199 230 951	1	14.800	199 230 961	1	14.800	

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	

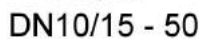


DN10/15-50



DN65-100

PF 3 39 696 032



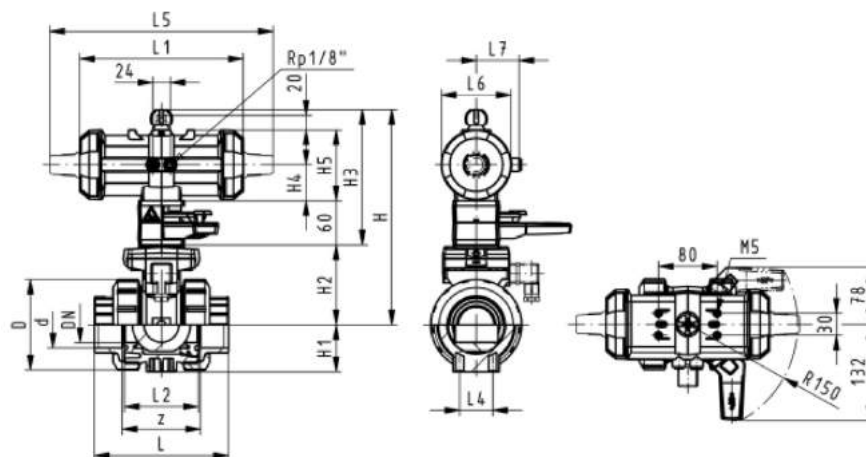
Model:

- Option:**

- Individual configuration of the valve (see diagram)

Rp [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
3/8	10	10	70	199 230 832	1	1.500	199 230 852	1	1.500	
1/2	15	10	185	199 230 833	1	1.500	199 230 853	1	1.500	
3/4	20	10	350	199 230 834	1	1.600	199 230 854	1	1.600	
1	25	10	700	199 230 835	1	1.700	199 230 855	1	1.700	
1 1/4	32	10	1000	199 230 836	1	2.800	199 230 856	1	2.800	
1 1/2	40	10	1600	199 230 837	1	3.100	199 230 857	1	3.100	
2	50	10	3100	199 230 838	1	4.000	199 230 858	1	4.000	

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



PF 3 39 696 032



Ball valve type 230 PVC-C DA (Double acting) Without manual override With backing flanges PP-st metric

Model:

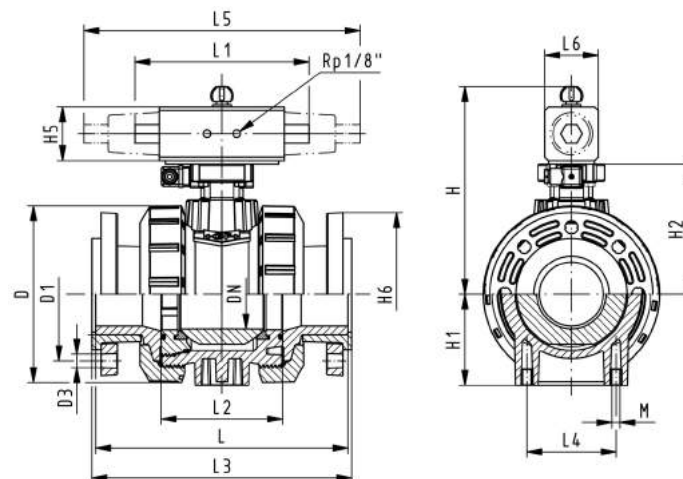
- Control time $90^\circ <$ 1-2 s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504,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

Option:

- Individual configuration of the valve (see diagram)

d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
75	65	10	5000	199 234 649	1	11.100	199 234 659	1	11.100	
90	80	10	7000	199 234 650	1	15.100	199 234 660	1	15.100	
110	100	10	11000	199 234 651	1	21.500	199 234 661	1	21.500	

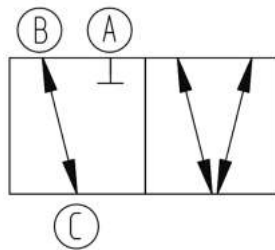
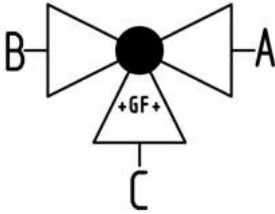
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L6 [mm]	
75	166	257	85	156	66	93	284	144	136	290	70	60	
90	200	274	105	168	70	100	300	152	141	310	70	65	
110	238	273	123	175	78	110	340	169	164	350	120	72	



PF 3 39 696 032

285

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



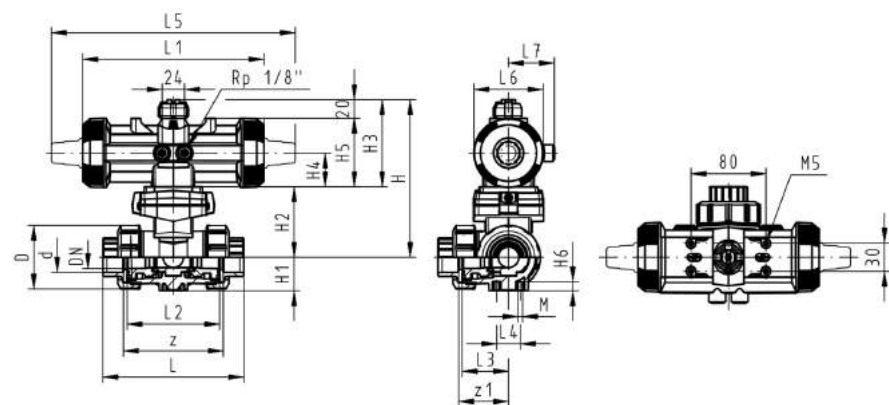
Model:

- 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

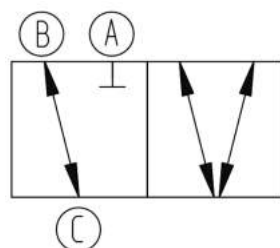
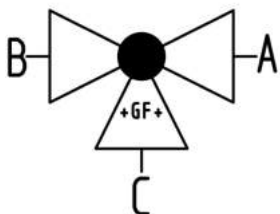
d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
16	10	10	140	199 285 142	1	1.135	199 285 152	1	1.135
20	15	10	200	199 285 143	1	1.141	199 285 153	1	1.141
25	20	10	470	199 285 144	1	1.278	199 285 154	1	1.278
32	25	10	793	199 285 145	1	1.479	199 285 155	1	1.479
40	32	10	1290	199 285 146	1	2.608	199 285 156	1	2.608
50	40	10	1910	199 285 147	1	3.088	199 285 157	1	3.088
63	50	10	3100	199 285 148	1	4.536	199 285 158	1	4.536

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]	closest inch [inch]
16	48	6	81	40	3/8
20	48	6	81	40	1/2
25	48	6	94	47	3/4
32	48	6	107	54	1
40	59	8	130	65	1 1/4
50	59	8	143	72	1 1/2
63	59	8	185	92	2



PF 3 39 981 032



3-Way ball valve type 285 PVC-C

Horizontal/T-port

Without manual override

With solvent cement spigots metric

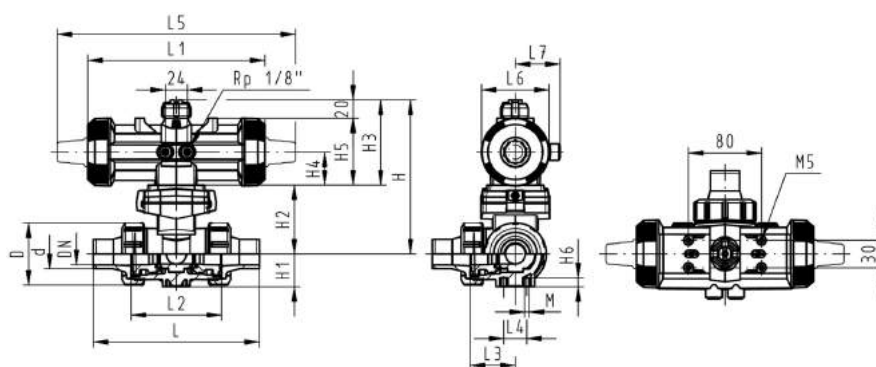
Model:

- 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 [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	140	199 285 122	1	1.141	199 285 132	1	1.141	
20	15	10	200	199 285 123	1	1.151	199 285 133	1	1.151	
25	20	10	470	199 285 124	1	1.294	199 285 134	1	1.294	
32	25	10	793	199 285 125	1	1.505	199 285 135	1	1.505	
40	32	10	1290	199 285 126	1	2.630	199 285 136	1	2.630	
50	40	10	1910	199 285 127	1	3.156	199 285 137	1	3.156	
63	50	10	3100	199 285 128	1	4.673	199 285 138	1	4.673	

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	closest inch [inch]
16	48	6	3/8
20	48	6	1/2
25	48	6	3/4
32	48	6	1
40	59	8	1 1/4
50	59	8	1 1/2
63	59	8	2



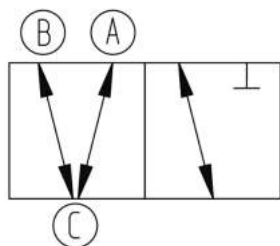
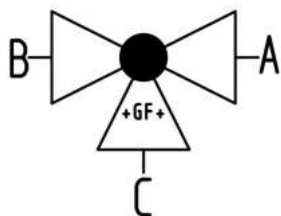
PF 3 39 981 032



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

Model:

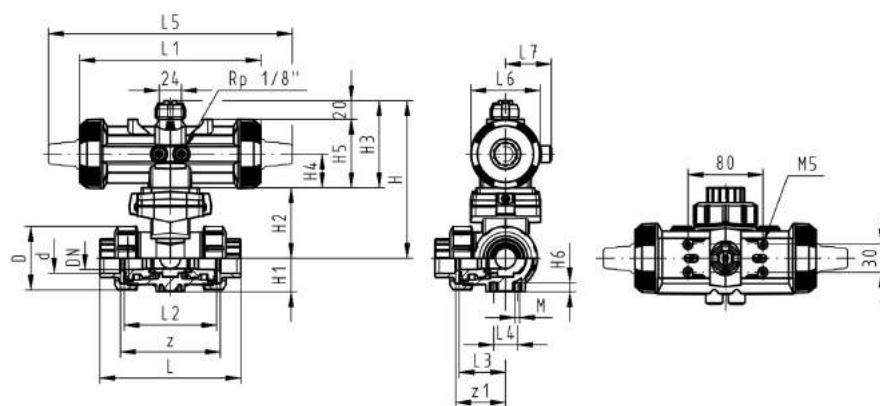
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	140	199 285 322	1	0.944	199 285 332	1	0.944	
20	15	10	200	199 285 323	1	0.951	199 285 333	1	0.951	
25	20	10	470	199 285 324	1	1.088	199 285 334	1	1.088	
32	25	10	793	199 285 325	1	1.289	199 285 335	1	1.289	
40	32	10	1290	199 285 326	1	2.184	199 285 336	1	2.184	
50	40	10	1910	199 285 327	1	2.664	199 285 337	1	2.664	
63	50	10	3100	199 285 328	1	4.112	199 285 338	1	4.112	

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 [mm]	z [mm]	z1 [mm]	closest inch [inch]
16	48	6	81	40	3/8
20	48	6	81	40	1/2
25	48	6	94	47	3/4
32	48	6	107	54	1
40	59	8	130	65	1 1/4
50	59	8	143	72	1 1/2
63	59	8	185	92	2



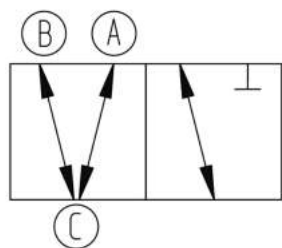
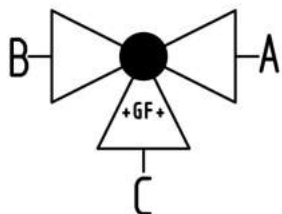
PF 3 39 981 032



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

Model:

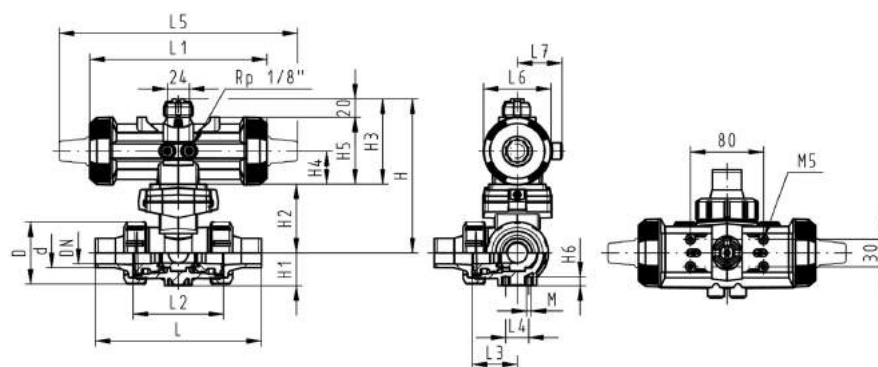
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	140	199 285 302	1	0.951	199 285 312	1	0.951	
20	15	10	200	199 285 303	1	0.961	199 285 313	1	0.961	
25	20	10	470	199 285 304	1	1.104	199 285 314	1	1.104	
32	25	10	793	199 285 305	1	1.315	199 285 315	1	1.315	
40	32	10	1290	199 285 306	1	2.206	199 285 316	1	2.206	
50	40	10	1910	199 285 307	1	2.732	199 285 317	1	2.732	
63	50	10	3100	199 285 308	1	4.249	199 285 318	1	4.249	

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	closest inch [inch]
16	48	6	3/8
20	48	6	1/2
25	48	6	3/4
32	48	6	1
40	59	8	1 1/4
50	59	8	1 1/2
63	59	8	2



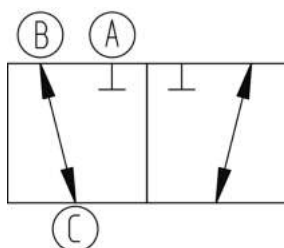
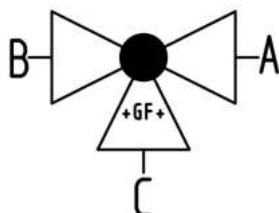
PF 3 39 981 032



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

Model:

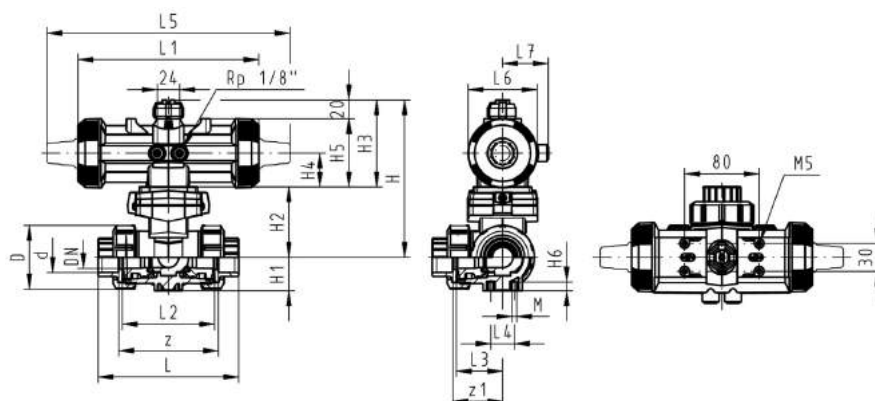
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



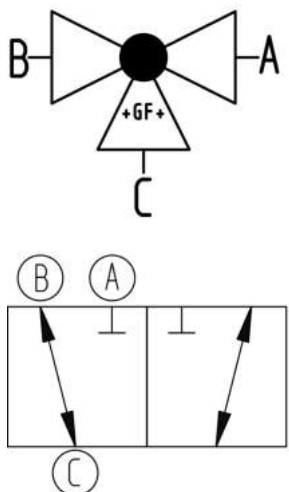
d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	50	199 285 102	1	1.136	199 285 112	1	1.136	
20	15	10	75	199 285 103	1	1.142	199 285 113	1	1.142	
25	20	10	150	199 285 104	1	1.280	199 285 114	1	1.280	
32	25	10	280	199 285 105	1	1.486	199 285 115	1	1.486	
40	32	10	480	199 285 106	1	2.619	199 285 116	1	2.619	
50	40	10	620	199 285 107	1	3.110	199 285 117	1	3.110	
63	50	10	1230	199 285 108	1	4.585	199 285 118	1	4.585	

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]	closest inch [inch]
16	48	6	81	40	3/8
20	48	6	81	40	1/2
25	48	6	94	47	3/4
32	48	6	107	54	1
40	59	8	130	65	1 1/4
50	59	8	143	72	1 1/2
63	59	8	185	92	2



PF 3 39 981 032



3-Way ball valve type 285 PVC-C

Horizontal/L-port

Without manual override

With solvent cement spigots metric

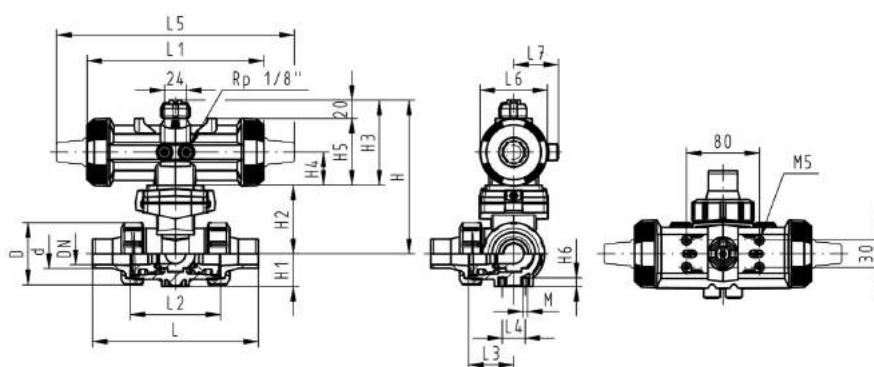
Model:

- 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 [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	50	199 285 082	1	1.142	199 285 092	1	1.142	
20	15	10	75	199 285 083	1	1.152	199 285 093	1	1.152	
25	20	10	150	199 285 084	1	1.296	199 285 094	1	1.296	
32	25	10	280	199 285 085	1	1.512	199 285 095	1	1.512	
40	32	10	480	199 285 086	1	2.642	199 285 096	1	2.642	
50	40	10	620	199 285 087	1	3.179	199 285 097	1	3.179	
63	50	10	1230	199 285 088	1	4.722	199 285 098	1	4.722	

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	closest inch [inch]
16	48	6	3/8
20	48	6	1/2
25	48	6	3/4
32	48	6	1
40	59	8	1 1/4
50	59	8	1 1/2
63	59	8	2



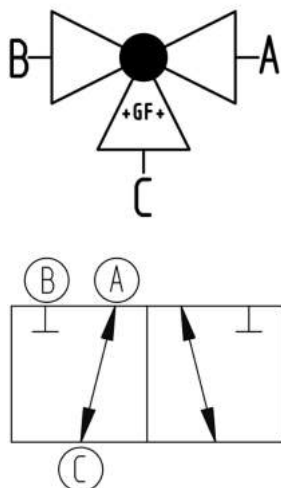
PF 3 39 981 032



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

Model:

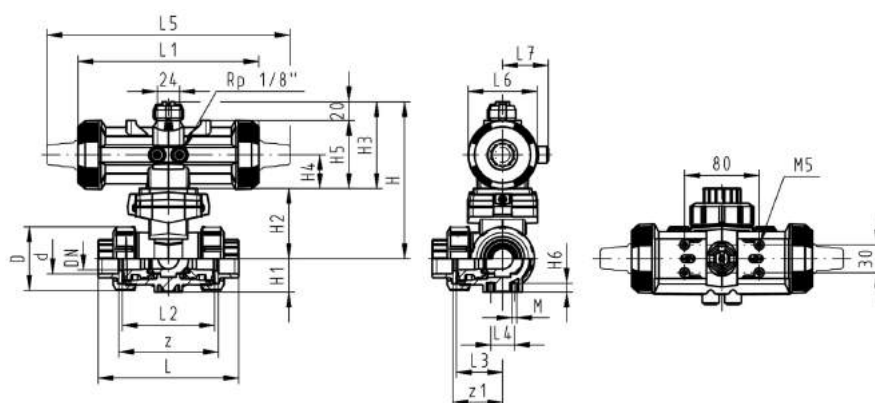
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN [bar]	kv-val- ue (Δp=1 bar) [l./min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	50	199 285 282	1	0.945	199 285 292	1	0.945	
20	15	10	75	199 285 283	1	0.952	199 285 293	1	0.952	
25	20	10	150	199 285 284	1	1.090	199 285 294	1	1.090	
32	25	10	280	199 285 285	1	1.296	199 285 295	1	1.296	
40	32	10	480	199 285 286	1	2.195	199 285 296	1	2.195	
50	40	10	620	199 285 287	1	2.686	199 285 297	1	2.686	
63	50	10	1230	199 285 288	1	4.161	199 285 298	1	4.161	

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]	closest inch [inch]
16	48	6	81	40	3/8
20	48	6	81	40	1/2
25	48	6	94	47	3/4
32	48	6	107	54	1
40	59	8	130	65	1 1/4
50	59	8	143	72	1 1/2
63	59	8	185	92	2



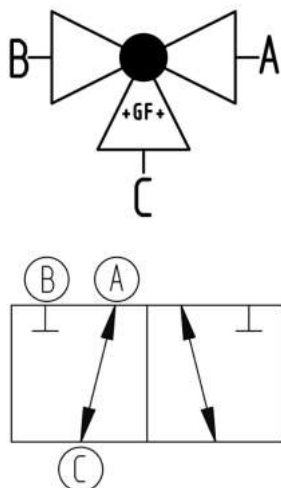
PF 3 39 981 032



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

Model:

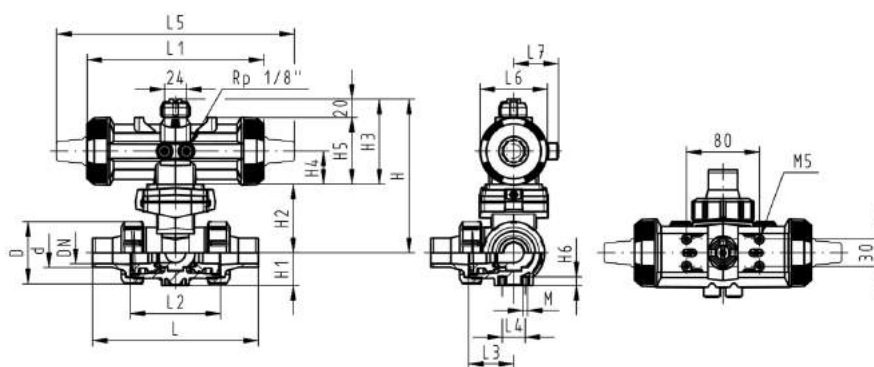
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d [mm]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]	
16	10	10	50	199 285 262	1	0.952	199 285 272	1	0.952	
20	15	10	75	199 285 263	1	0.962	199 285 273	1	0.962	
25	20	10	150	199 285 264	1	1.106	199 285 274	1	1.106	
32	25	10	280	199 285 265	1	1.322	199 285 275	1	1.322	
40	32	10	480	199 285 266	1	2.218	199 285 276	1	2.218	
50	40	10	620	199 285 267	1	2.755	199 285 277	1	2.755	
63	50	10	1230	199 285 268	1	4.298	199 285 278	1	4.298	

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	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	closest inch [inch]
16	48	6	3/8
20	48	6	1/2
25	48	6	3/4
32	48	6	1
40	59	8	1 1/4
50	59	8	1 1/2
63	59	8	2



PF 3 39 981 032

Diaphragm valves pneumatic New generation

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

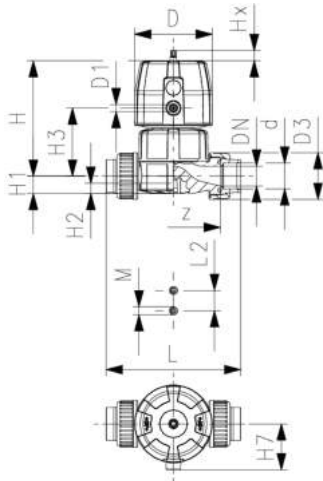


Model:

- 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 [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]
20	15	6	125	163 614 012	1	0.577
25	20	6	271	163 614 013	1	1.067
32	25	6	481	163 614 014	1	1.302
40	32	6	759	163 614 015	1	2.152
50	40	6	960	163 614 016	1	2.795
63	50	6	1181	163 614 017	1	3.972

d [mm]	D [mm]	D1_G [inch]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	L [mm]	L2 [mm]	M	z [mm]	Lift = Hx [mm]	closest inch [inch]
20	68	1/8	101	14	12	60	43	128	25	M6	96	7	1/2
25	96	1/8	132	18	12	73	57	152	25	M6	114	10	3/4
32	96	1/8	143	22	12	84	57	166	25	M6	122	13	1
40	120	1/8	173	26	15	99	69	192	45	M8	140	14	1 1/4
50	120	1/8	193	32	15	119	69	222	45	M8	160	16	1 1/2
63	120	1/8	205	39	15	132	69	266	45	M8	190	16	2

PF 3 39 212 201



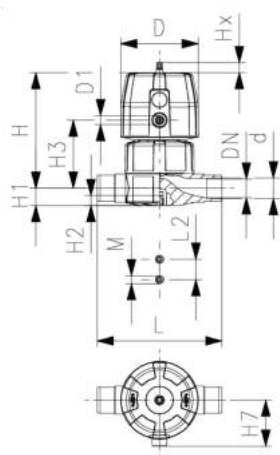
Diaphragm valve DIASTAR Six PVC-C FC (Fail safe to close) With solvent cement spigots metric

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 [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]
20	15	6	125	163 615 012	1	0.462
25	20	6	271	163 615 013	1	0.978
32	25	6	481	163 615 014	1	1.166
40	32	6	759	163 615 015	1	1.908
50	40	6	960	163 615 016	1	2.464
63	50	6	1181	163 615 017	1	3.431

d [mm]	D [mm]	D1_G [inch]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H7 [mm]	L [mm]	L2 [mm]	M	Lift = Hx [mm]	closest inch [inch]
20	68	1/8	101	14	12	60	43	124	25	M6	7	1/2
25	96	1/8	132	18	12	73	57	144	25	M6	10	3/4
32	96	1/8	143	22	12	84	57	154	25	M6	13	1
40	120	1/8	173	26	15	99	69	174	45	M8	14	1 1/4
50	120	1/8	193	32	15	119	69	194	45	M8	16	1 1/2
63	120	1/8	205	39	15	132	69	224	45	M8	16	2

PF 3 39 212 201



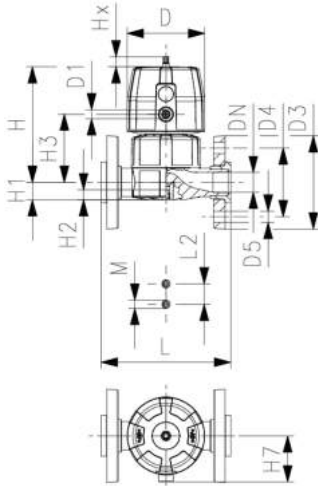
Diaphragm valve DIASTAR Six PVC-C FC (Fail safe to close) With backing flanges PP-V metric/BS

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 [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]
20	15	6	125	163 617 112	1	0.696
25	20	6	271	163 617 113	1	1.215
32	25	6	481	163 617 114	1	1.502
40	32	6	759	163 617 115	1	2.436
50	40	6	960	163 617 116	1	3.004
63	50	6	1181	163 617 117	1	4.399

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

d [mm]	closest inch [inch]
20	1/2
25	3/4
32	1
40	1 1/4
50	1 1/2
63	2

PF 3 39 212 201



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

Model:

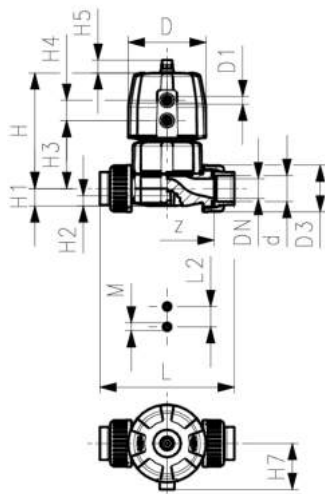
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

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

* PN: PTFE

Working Pressure: **one side**



d [mm]	DN [mm]	PN [psi]	PN* [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]
20	15	150/150*	10/10*	125	163 624 012	1	0.572
25	20	150/150*	10/10*	271	163 624 013	1	1.142
32	25	150/150*	10/10*	481	163 624 014	1	1.376
40	32	150/150*	10/10*	759	163 624 015	1	2.305
50	40	150/150*	10/10*	1263	163 624 016	1	3.932
63	50	150/90*	10/6*	1728	163 624 017	1	4.893

d [mm]	PTFE/EPDM Code	SP	Weight [kg]
20	163 624 032	1	0.612
25	163 624 033	1	1.128
32	163 624 034	1	1.393
40	163 624 035	1	2.325
50	163 624 036	1	3.960
63	163 624 037	1	4.925

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

d [mm]	closest inch [inch]
20	1/2
25	3/4
32	1
40	1 1/4
50	1 1/2
63	2

PF 3 39 212 201



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

Model:

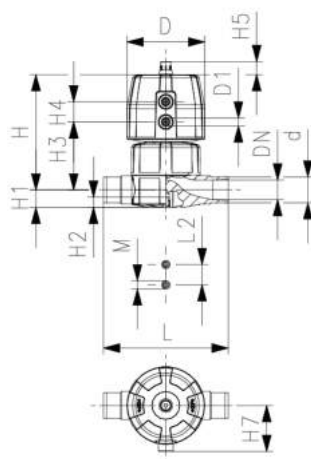
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

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

* PN: PTFE

Working Pressure: **one side**



d [mm]	DN [mm]	PN [psi]	PN* [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]
20	15	150/150*	10/10*	125	163 625 012	1	0.510
25	20	150/150*	10/10*	271	163 625 013	1	1.054
32	25	150/150*	10/10*	481	163 625 014	1	1.238
40	32	150/150*	10/10*	759	163 625 015	1	2.058
50	40	150/150*	10/10*	1263	163 625 016	1	3.602
63	50	150/90*	10/6*	1728	163 625 017	1	4.352

d [mm]	PTFE/EPDM Code	SP	Weight [kg]
20	163 625 032	1	0.538
25	163 625 033	1	1.054
32	163 625 034	1	1.259
40	163 625 035	1	2.079
50	163 625 036	1	3.631
63	163 625 037	1	4.380

d [mm]	D [mm]	D1_G [inch]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	L [mm]	L2 [mm]	M	Lift = Hx [mm]	closest inch [inch]
20	68	1/8	101	14	12	60	24	16	43	124	25	M6	7	1/2
25	96	1/8	132	18	12	73	25	16	57	144	25	M6	10	3/4
32	96	1/8	143	22	12	84	25	16	57	154	25	M6	13	1
40	120	1/8	173	26	15	99	26	26	69	174	45	M8	15	1 1/4
50	150	1/4	214	32	15	119	36	26	88	194	45	M8	19	1 1/2
63	150	1/4	226	39	15	132	36	26	88	224	45	M8	23	2

PF 3 39 212 201



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

Model:

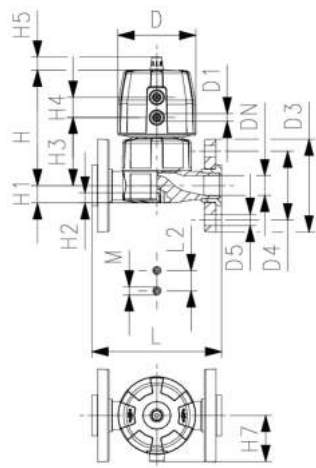
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

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

* PN: PTFE

Working Pressure: **one side**



d [mm]	DN [mm]	PN [psi]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]
20	15	150/150*	10/10*	125	163 627 112	1	0.722
25	20	150/150*	10/10*	271	163 627 113	1	1.290
32	25	150/150*	10/10*	481	163 627 114	1	1.574
40	32	150/150*	10/10*	759	163 627 115	1	2.586
50	40	150/150*	10/10*	1263	163 627 116	1	4.142
63	50	150/90*	10/6*	1728	163 627 117	1	5.320

d [mm]	PTFE/EPDM Code	SP	Weight [kg]
20	163 627 132	1	0.722
25	163 627 133	1	1.290
32	163 627 134	1	1.595
40	163 627 135	1	2.607
50	163 627 136	1	4.171
63	163 627 137	1	5.348

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

d [mm]	M	Lift = Hx [mm]	closest inch [inch]
20	M6	7	1/2
25	M6	10	3/4
32	M6	13	1
40	M8	15	1 1/4
50	M8	19	1 1/2
63	M8	23	2

PF 3 39 212 201



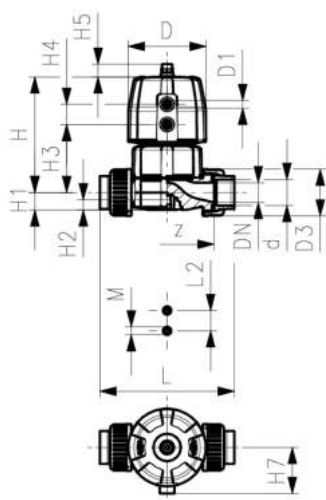
Diaphragm valve DIASTAR Ten PVC-C FO (Fail safe to open) Unions with solvent cement sockets metric

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



* PN: PTFE

Working Pressure: **one side**

d [mm]	DN [mm]	PN* [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]	
20	15	10/10*	125	163 644 012	1	0.553	163 644 032	1	0.562	
25	20	10/10*	271	163 644 013	1	0.968	163 644 033	1	0.978	
32	25	10/10*	481	163 644 014	1	1.194	163 644 034	1	1.213	
40	32	10/10*	759	163 644 015	1	1.945	163 644 035	1	1.965	
50	40	10/10*	1263	163 644 016	1	3.326	163 644 036	1	3.870	
63	50	10/10*	1728	163 644 017	1	4.011	163 644 037	1	4.830	

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

d [mm]	closest inch [inch]	
20	1/2	
25	3/4	
32	1	
40	1 1/4	
50	1 1/2	
63	2	

PF 3 39 212 201



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

Model:

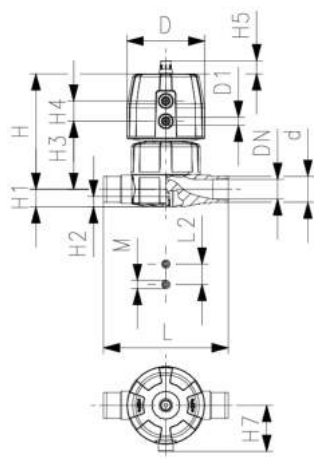
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

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

* PN: PTFE

Working Pressure: **one side**



d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]	
20	15	10/10*	125	163 645 012	1	0.488	163 645 032	1	0.488	
25	20	10/10*	271	163 645 013	1	0.879	163 645 033	1	0.879	
32	25	10/10*	481	163 645 014	1	1.058	163 645 034	1	1.079	
40	32	10/10*	759	163 645 015	1	1.698	163 645 035	1	1.719	
50	40	10/10*	1263	163 645 016	1	3.512	163 645 036	1	3.541	
63	50	10/10*	1728	163 645 017	1	4.262	163 645 037	1	4.290	

d [mm]	D [mm]	D1_G [inch]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	L [mm]	L2 [mm]	M	Lift = Hx [mm]	closest inch [inch]
20	68	1/8	101	14	12	60	24	16	43	124	25	M6	7	1/2
25	96	1/8	132	18	12	73	25	16	57	144	25	M6	10	3/4
32	96	1/8	143	22	12	84	25	16	57	154	25	M6	13	1
40	120	1/8	173	26	15	99	26	26	69	174	45	M8	15	1 1/4
50	150	1/4	214	32	15	119	36	26	88	194	45	M8	19	1 1/2
63	150	1/4	226	39	15	132	36	26	88	224	45	M8	23	2

PF 3 39 212 201



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

Model:

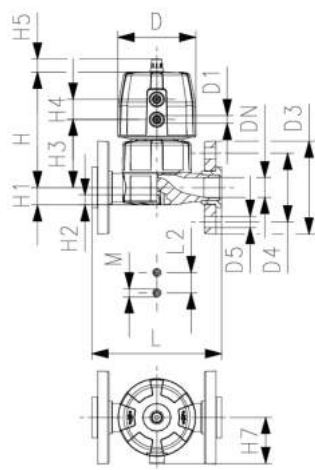
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

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

* PN: PTFE

Working Pressure: **one side**



d [mm]	DN [mm]	PN* [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]	
20	15	10/10*	125	163 647 112	1	0.672	163 647 132	1	0.672	
25	20	10/10*	271	163 647 113	1	1.116	163 647 133	1	1.116	
32	25	10/10*	481	163 647 114	1	1.394	163 647 134	1	1.415	
40	32	10/10*	759	163 647 115	1	2.226	163 647 135	1	2.247	
50	40	10/10*	1263	163 647 116	1	4.052	163 647 136	1	4.081	
63	50	10/10*	1728	163 647 117	1	5.230	163 647 137	1	4.768	

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

d [mm]	M	Lift = Hx [mm]	closest inch [inch]	
20	M6	7	1/2	
25	M6	10	3/4	
32	M6	13	1	
40	M8	15	1 1/4	
50	M8	19	1 1/2	
63	M8	23	2	

PF 3 39 212 201



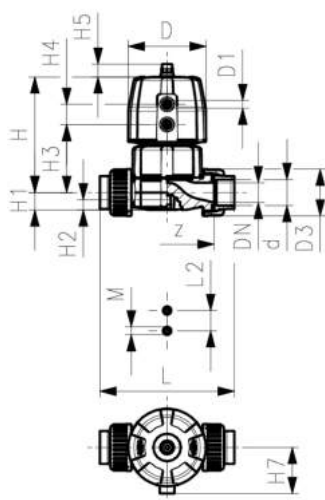
Diaphragm valve DIASTAR Ten PVC-C DA (Double acting) Unions with solvent cement sockets metric

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



* PN: PTFE

Working Pressure: **one side**

d [mm]	DN [mm]	PN* [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]	
20	15	10/10*	125	163 654 012	1	0.537	163 654 032	1	0.546	
25	20	10/10*	271	163 654 013	1	0.932	163 654 033	1	0.942	
32	25	10/10*	481	163 654 014	1	1.164	163 654 034	1	1.183	
40	32	10/10*	759	163 654 015	1	1.885	163 654 035	1	1.905	
50	40	10/10*	1263	163 654 016	1	3.092	163 654 036	1	3.120	
63	50	10/10*	1728	163 654 017	1	4.053	163 654 037	1	4.080	

d [mm]	D [mm]	D1_G [inch]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	L [mm]	L2 [mm]	M	z [mm]	Lift = Hx [mm]
20	68	⅝	101	14	12	60	24	16	43	128	25	M6	96	7
25	96	⅝	132	18	12	73	25	16	57	152	25	M6	114	10
32	96	⅝	143	22	12	84	25	16	57	166	25	M6	122	13
40	120	⅝	173	26	15	99	26	26	69	192	45	M8	140	15
50	150	¾	214	32	15	119	36	26	88	222	45	M8	160	19
63	150	¾	226	39	15	132	36	26	88	266	45	M8	190	23

d [mm]	closest inch [inch]	
20	¾	
25	⅝	
32	1	
40	1 ¼	
50	1 ½	
63	2	

PF 3 39 212 201



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

Model:

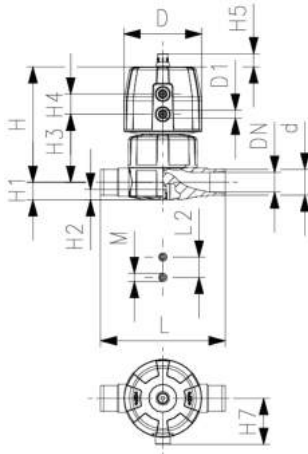
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

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

* PN: PTFE

Working Pressure: **one side**



d [mm]	DN [mm]	PN* [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]	
20	15	10/10*	125	163 655 012	1	0.472	163 655 032	1	0.472	
25	20	10/10*	271	163 655 013	1	0.843	163 655 033	1	0.843	
32	25	10/10*	481	163 655 014	1	1.028	163 655 034	1	1.049	
40	32	10/10*	759	163 655 015	1	1.638	163 655 035	1	1.659	
50	40	10/10*	1263	163 655 016	1	2.762	163 655 036	1	2.791	
63	50	10/10*	1728	163 655 017	1	3.512	163 655 037	1	3.540	

d [mm]	D [mm]	D1_G [inch]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	L [mm]	L2 [mm]	M	Lift = Hx [mm]	closest inch [inch]
20	68	1/8	101	14	12	60	24	16	43	124	25	M6	7	1/2
25	96	1/8	132	18	12	73	25	16	57	144	25	M6	10	3/4
32	96	1/8	143	22	12	84	25	16	57	154	25	M6	13	1
40	120	1/8	173	26	15	99	26	26	69	174	45	M8	15	1 1/4
50	150	1/4	214	32	15	119	36	26	88	194	45	M8	19	1 1/2
63	150	1/4	226	39	15	132	36	26	88	224	45	M8	23	2

PF 3 39 212 201



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

Model:

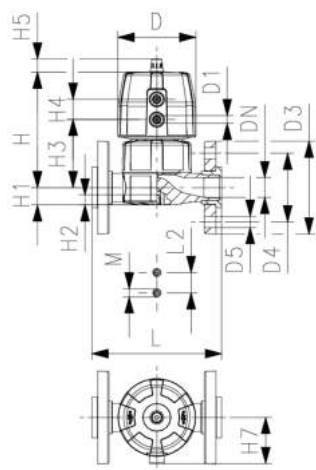
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

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

* PN: PTFE

Working Pressure: **one side**



d [mm]	DN [mm]	PN* [bar]	kv-val- ue (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]	
20	15	10/10*	125	163 657 112	1	0.656	163 657 132	1	0.656	
25	20	10/10*	271	163 657 113	1	1.080	163 657 133	1	1.080	
32	25	10/10*	481	163 657 114	1	1.364	163 657 134	1	1.441	
40	32	10/10*	759	163 657 115	1	2.166	163 657 135	1	2.187	
50	40	10/10*	1263	163 657 116	1	3.302	163 657 136	1	3.331	
63	50	10/10*	1728	163 657 117	1	4.480	163 657 137	1	4.508	

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

d [mm]	M	Lift = Hx [mm]	closest inch [inch]	
20	M6	7	1/2	
25	M6	10	3/4	
32	M6	13	1	
40	M8	15	1 1/4	
50	M8	19	1 1/2	
63	M8	23	2	

PF 3 39 212 201



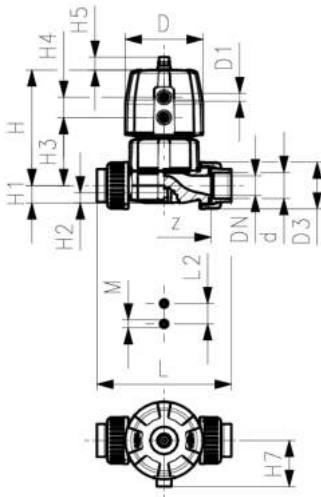
Diaphragm valve DIASTAR TenPlus PVC-C FC (Fail safe to close) Unions with solvent cement sockets metric

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

Working Pressure: **both sides**

d [mm]	DN [mm]	PN* [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]	
20	15	10/10*	125	163 684 012	1	1.004	163 684 032	1	1.012	
25	20	10/10*	271	163 684 013	1	1.142	163 684 033	1	1.153	
32	25	10/10*	481	163 684 014	1	1.968	163 684 034	1	1.987	
40	32	10/10*	759	163 684 015	1	3.375	163 684 035	1	3.395	
50	40	10/10*	1263	163 684 016	1	5.340	163 684 036	1	5.368	
63	50	10/10*	1728	163 684 017	1	6.300	163 684 037	1	6.327	

d [mm]	D [mm]	D1_G [inch]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	L [mm]	L2 [mm]	M	z [mm]	Lift = Hx [mm]
20	96	⅜	127	14	12	68	25	16	57	128	25	M6	96	7
25	96	⅜	132	18	12	73	25	16	57	152	25	M6	114	10
32	120	⅜	167	22	12	93	26	26	69	166	25	M6	122	13
40	150	¼	196	26	15	101	36	26	88	192	45	M8	140	15
50	180	¼	239	32	15	124	37	26	103	222	45	M8	160	19
63	180	¼	251	39	15	137	37	26	103	266	45	M8	190	23

d [mm]	closest inch [inch]	
20	⅜	
25	¾	
32	1	
40	1 ¼	
50	1 ½	
63	2	

PF 3 39 212 201



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

Model:

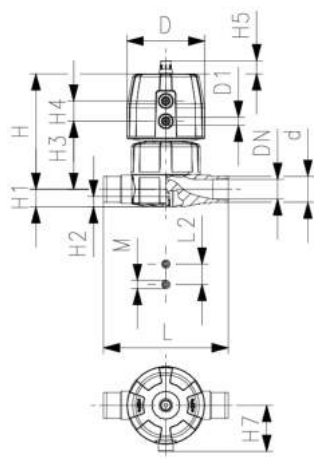
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

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

* PN: PTFE

Working Pressure: **both sides**



d [mm]	DN [mm]	PN* [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]	
20	15	10/10*	125	163 685 012	1	0.943	163 685 032	1	0.938	
25	20	10/10*	271	163 685 013	1	1.054	163 685 033	1	1.054	
32	25	10/10*	481	163 685 014	1	1.947	163 685 034	1	1.853	
40	32	10/10*	759	163 685 015	1	3.128	163 685 035	1	3.149	
50	40	10/10*	1263	163 685 016	1	5.010	163 685 036	1	5.039	
63	50	10/10*	1728	163 685 017	1	5.759	163 685 037	1	5.787	

d [mm]	D [mm]	D1_G [inch]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H7 [mm]	L [mm]	L2 [mm]	M	Lift = Hx [mm]	closest inch [inch]
20	96	1/8	127	14	12	68	25	16	57	124	25	M6	7	1/2
25	96	1/8	132	18	12	73	25	16	57	144	25	M6	10	3/4
32	120	1/8	167	22	12	93	26	26	69	154	25	M6	13	1
40	150	1/4	196	26	15	101	36	26	88	174	45	M8	15	1 1/4
50	180	1/4	239	32	15	124	37	26	103	194	45	M8	19	1 1/2
63	180	1/4	251	39	15	137	37	26	103	224	45	M8	23	2

PF 3 39 212 201



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

Model:

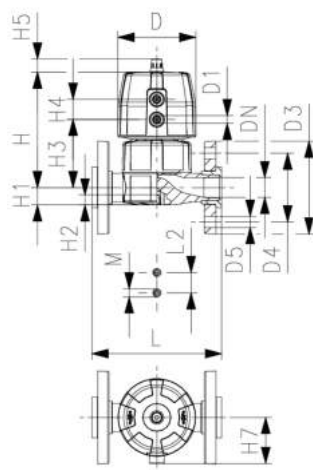
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

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

* PN: PTFE

Working Pressure: **both sides**



d [mm]	DN [mm]	PN* [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	PTFE/EPDM Code	SP	Weight [kg]	
20	15	10/10*	125	163 687 112	1	1.123	163 687 132	1	1.123	
25	20	10/10*	271	163 687 113	1	1.290	163 687 133	1	1.290	
32	25	10/10*	481	163 687 114	1	2.168	163 687 134	1	2.320	
40	32	10/10*	759	163 687 115	1	3.656	163 687 135	1	3.677	
50	40	10/10*	1263	163 687 116	1	5.550	163 687 136	1	5.579	
63	50	10/10*	1728	163 687 117	1	6.727	163 687 137	1	7.147	

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

d [mm]	M	Lift = Hx [mm]	closest inch [inch]	
20	M6	7	1/2	
25	M6	10	3/4	
32	M6	13	1	
40	M8	15	1 1/4	
50	M8	19	1 1/2	
63	M8	23	2	

PF 3 39 212 201

Diaphragm valves pneumatic

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

Model:

- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

- With position indicator / Working pressure: **one side**

* With backing flanges PP-V

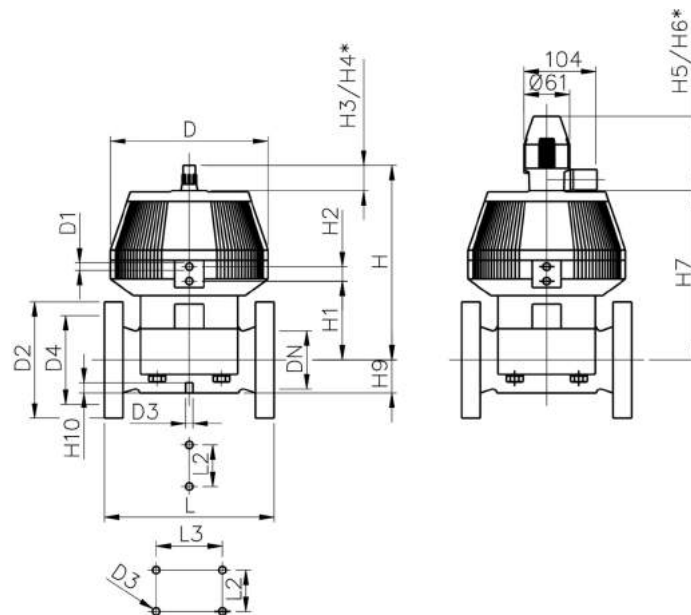
** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5



	d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	PTFE/EPDM Code	Weight [kg]
*	75	2 ½	65	10	992	199 025 697	13.600	199 025 727	13.600
**	90	3	80	10	1700	199 025 698	17.830	199 025 728	17.973
	110	4	100	6	2700	199 025 699	24.700	199 025 729	24.700

	d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302
	110	335	¼	225	12	180	395	176	24	46	100	129	195	349

	d [mm]	H9 [mm]	H10 [mm]	L [mm]	L2 [mm]
*	75	46	15	290	70
**	90	57	15	310	120
	110	69	20	350	120



PF 3 39 212 109



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

Model:

• Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

• With position indicator / Working pressure: **one side**

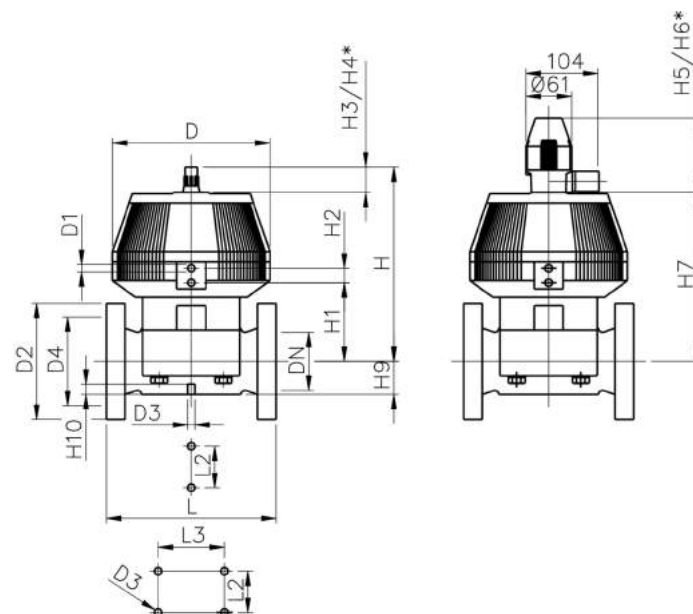
* With backing flanges PP-V

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

	d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	Weight [kg]	PTFE/EPDM Code	Weight [kg]	
*	75	2 ½	65	10	992	199 025 707	13.600	199 025 737	13.600	
**	90	3	80	10	1700	199 025 708	17.400	199 025 738	17.400	
	110	4	100	6	2700	199 025 709	24.700	199 025 739		

	d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	
	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	

	d [mm]	H9 [mm]	H10 [mm]	L [mm]	L2 [mm]	
*	75	46	15	290	70	
**	90	57	15	310	120	
	110	69	20	350	120	



PF 3 39 212 110



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

Model:

- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

- With position indicator / Working pressure: **one side**

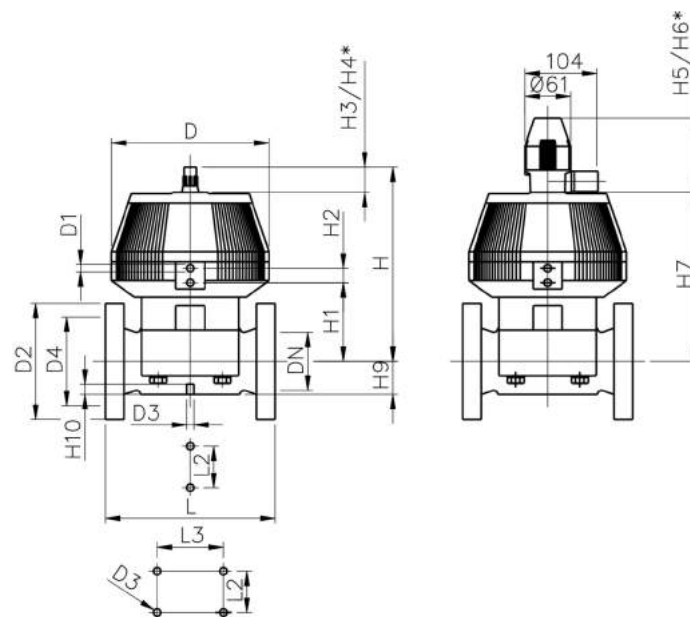
* With backing flanges PP-V

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

	d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	Weight [kg]	PTFE/EPDM Code	Weight [kg]
*	75	2 ½	65	10	992	199 025 717	12.529	199 025 747	13.600
**	90	3	80	10	1700	199 025 718	17.400	199 025 748	17.400
	110	4	100	6	2700	199 025 719	24.700	199 025 749	24.700

	d [mm]	D [mm]	D1_G [inch]	D2 [mm]	D3[M] [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302
	110	335	¼	225	12	180	395	176	24	46	100	129	195	349

	d [mm]	H9 [mm]	H10 [mm]	L [mm]	L2 [mm]
*	75	46	15	290	70
**	90	57	15	310	120
	110	69	20	350	120



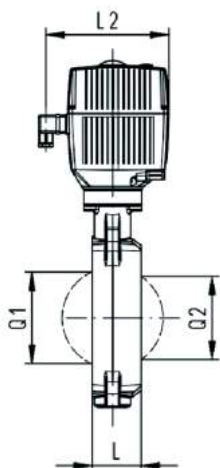
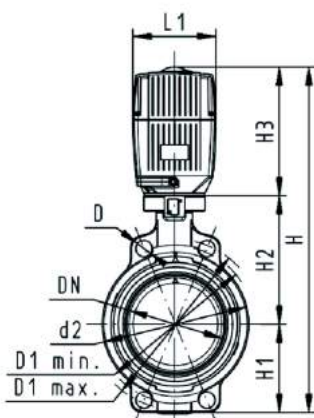
PF 3 39 212 111

Butterfly valves electric

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

Model:

- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Control time 15 s/90°< EA31
- Control time 25 s/90°< EA42
- Actuator with integrated emergency manual override standard
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 140 202	1	3.189	199 140 222	1	3.193
75	2 ½	65	10	2200	199 140 203	1	4.529	199 140 223	1	4.312
90	3	80	10	3000	199 140 204	1	4.484	199 140 224	1	4.491
110	4	100	10	6500	199 140 205	1	5.119	199 140 225	1	5.133
140	5	125	10	11500	199 140 206	1	4.719	199 140 226	1	4.737
160	6	150	10	16600	199 140 207	1	6.701	199 140 227	1	6.724
225	8	200	10	39600	199 140 208	1	12.966	199 140 228	1	12.994

d [mm]	PTFE Code
63	199 140 722
75	199 140 723
90	199 140 724
110	199 140 725
140	199 140 726
160	199 140 727
225	199 140 728

d [mm]	Actuator unit type	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]
63	EA-31	104	19	120	125	400	77	134	188	45	122	180	40
75	EA-31	115	19	140	145	413	83	140	188	46	122	180	54
90	EA-31	131	19	150	160	428	89	146	188	49	122	180	67
110	EA-31	161	19	175	191	460	104	167	188	56	122	180	88
140	EA-31	187	23	210	216	487	117	181	188	64	122	180	113
160	EA-31	215	24	241	241	508	130	189	188	72	122	180	139
225	EA-42	267	23	290	295	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

PF 3 39 643 033

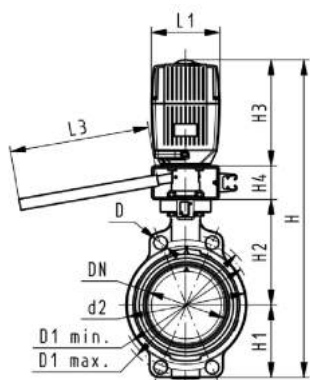


Butterfly valve type 140 PVC-C 100-230V With manual override

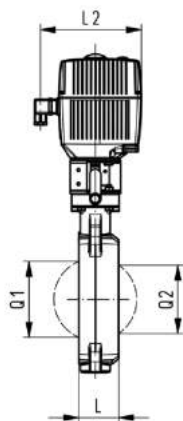
Model:

- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 15 s/90°<) EA31
- Control time 25 s/90°<) EA42
- Actuator with integrated emergency manual override standard
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 140 162	1	5.678	199 140 182	1	4.233
75	2 ½	65	10	2200	199 140 163	1	5.801	199 140 183	1	5.812
90	3	80	10	3000	199 140 164	1	5.984	199 140 184	1	5.991
110	4	100	10	6500	199 140 165	1	6.619	199 140 185	1	6.633
140	5	125	10	11500	199 140 166	1	5.732	199 140 186	1	5.750
160	6	150	10	16600	199 140 167	1	8.201	199 140 187	1	8.224
225	8	200	10	39600	199 140 168	1	14.466	199 140 188	1	14.494



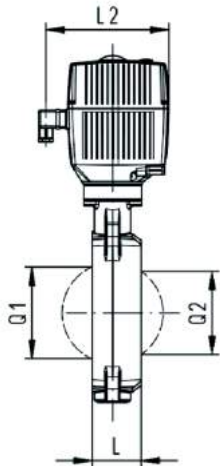
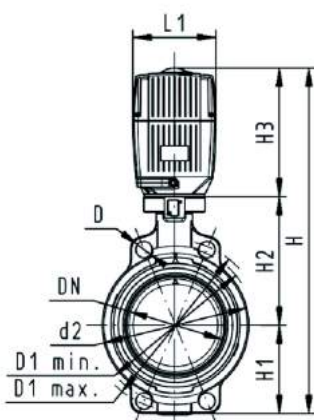
d [mm]	PTFE Code
63	199 140 762
75	199 140 763
90	199 140 764
110	199 140 765
140	199 140 766
160	199 140 767
225	199 140 768



d [mm]	Actuator unit type	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	104	19	120	125	460	77	134	188	60	45	122	180
75	EA-31	115	19	140	145	473	83	140	188	60	46	122	180
90	EA-31	131	19	150	160	488	89	146	188	60	49	122	180
110	EA-31	161	19	175	191	520	104	167	188	60	56	122	180
140	EA-31	187	23	210	216	547	117	181	188	60	64	122	180
160	EA-31	215	24	241	241	568	130	189	188	60	72	122	180
225	EA-42	267	23	290	295	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

PF 3 39 643 033



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

Model:

- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 15 s/90°<) EA31
- Control time 25 s/90°<) EA42
- Actuator with integrated emergency manual override standard
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 140 282	1	3.189	199 140 302	1	3.193
75	2 ½	65	10	2200	199 140 283	1	4.301	199 140 303	1	4.312
90	3	80	10	3000	199 140 284	1	4.484	199 140 304	1	4.491
110	4	100	10	6500	199 140 285	1	5.119	199 140 305	1	5.133
140	5	125	10	11500	199 140 286	1	4.719	199 140 306	1	4.737
160	6	150	10	16600	199 140 287	1	6.701	199 140 307	1	6.724
225	8	200	10	39600	199 140 288	1	12.966	199 140 308	1	12.994

d [mm]	PTFE Code
63	199 140 742
75	199 140 743
90	199 140 744
110	199 140 745
140	199 140 746
160	199 140 747
225	199 140 748

d [mm]	Actuator unit type	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]
63	EA-31	104	19	120	125	400	77	134	188	45	122	180	40
75	EA-31	115	19	140	145	413	83	140	188	46	122	180	54
90	EA-31	131	19	150	160	428	89	146	188	49	122	180	67
110	EA-31	161	19	175	191	460	104	167	188	56	122	180	88
140	EA-31	187	23	210	216	487	117	181	188	64	122	180	113
160	EA-31	215	24	241	241	508	130	189	188	72	122	180	139
225	EA-42	267	23	290	295	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

PF 3 39 643 033

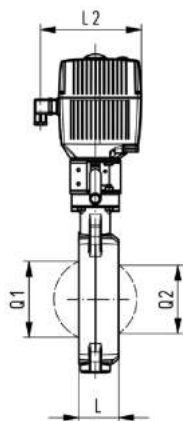
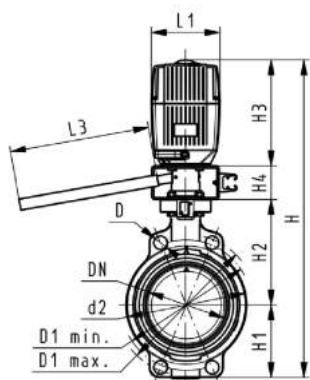


Butterfly valve type 140 PVC-C 24V With manual override

Model:

- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 15 s/90°<) EA31
- Control time 25 s/90°<) EA42
- Actuator with integrated emergency manual override standard
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 140 242	1	5.678	199 140 262	1	4.233
75	2 ½	65	10	2200	199 140 243	1	5.801	199 140 263	1	5.812
90	3	80	10	3000	199 140 244	1	5.984	199 140 264	1	5.991
110	4	100	10	6500	199 140 245	1	6.619	199 140 265	1	6.633
140	5	125	10	11500	199 140 246	1	5.732	199 140 266	1	5.750
160	6	150	10	16600	199 140 247	1	8.201	199 140 267	1	8.224
225	8	200	10	39600	199 140 248	1	14.466	199 140 268	1	14.494



d [mm]	PTFE Code
63	199 140 782
75	199 140 783
90	199 140 784
110	199 140 785
140	199 140 786
160	199 140 787
225	199 140 788

d [mm]	Actuator unit type	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	104	19	120	125	460	77	134	188	60	45	122	180
75	EA-31	115	19	140	145	473	83	140	188	60	46	122	180
90	EA-31	131	19	150	160	488	89	146	188	60	49	122	180
110	EA-31	161	19	175	191	520	104	167	188	60	56	122	180
140	EA-31	187	23	210	216	547	117	181	188	60	64	122	180
160	EA-31	215	24	241	241	568	130	189	188	60	72	122	180
225	EA-42	267	23	290	295	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

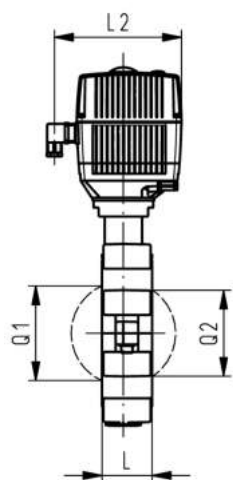
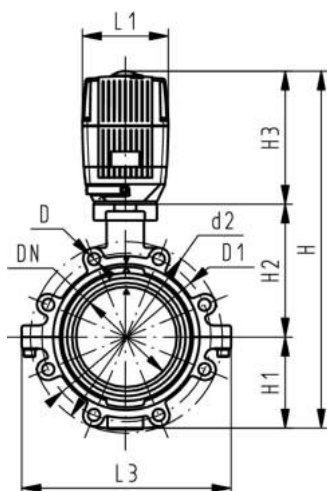
PF 3 39 643 033



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

Model:

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



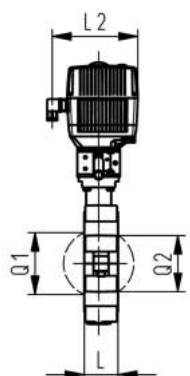
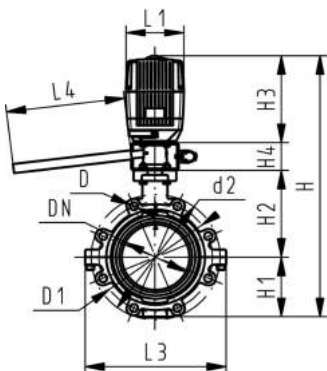
d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 141 202	1	6.281	199 141 222	1	6.281
75	2 ½	65	10	2200	199 141 203	1	6.648	199 141 223	1	6.648
90	3	80	10	3000	199 141 204	1	7.702	199 141 224	1	7.702
110	4	100	10	6500	199 141 205	1	9.217	199 141 225	1	9.217
140	5	125	10	11500	199 141 206	1	11.205	199 141 226	1	11.205
160	6	150	10	16600	199 141 207	1	13.184	199 141 227	1	13.184
225	8	200	10	39600	199 141 208	1	22.942	199 141 228	1	22.942

d [mm]	PTFE Code
63	199 141 722
75	199 141 723
90	199 141 724
110	199 141 725
140	199 141 726
160	199 141 727
225	199 141 728

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

PF 3 39 643 034



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

Model:

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

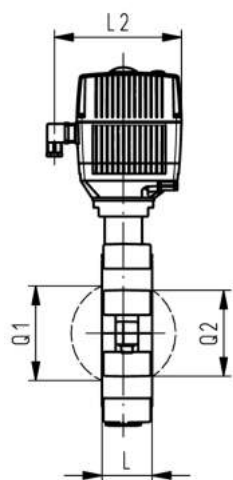
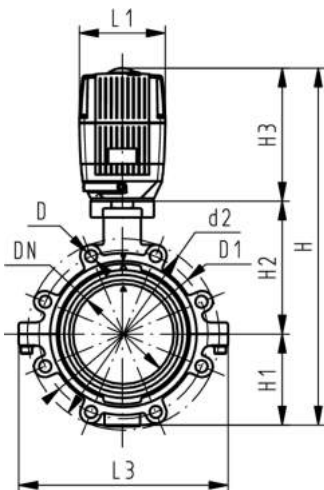
d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 141 162	1	7.781	199 141 182	1	7.781
75	2 ½	65	10	2200	199 141 163	1	8.148	199 141 183	1	8.148
90	3	80	10	3000	199 141 164	1	9.202	199 141 184	1	9.202
110	4	100	10	6500	199 141 165	1	10.717	199 141 185	1	10.717
140	5	125	10	11500	199 141 166	1	12.705	199 141 186	1	12.705
160	6	150	10	16600	199 141 167	1	14.684	199 141 187	1	14.684
225	8	200	10	39600	199 141 168	1	24.442	199 141 188	1	24.442

d [mm]	PTFE Code
63	199 141 762
75	199 141 763
90	199 141 764
110	199 141 765
140	199 141 766
160	199 141 767
225	199 141 768

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

PF 3 39 643 034



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

Model:

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

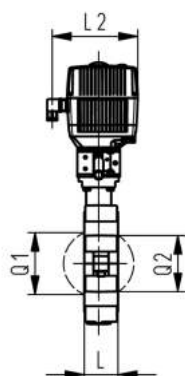
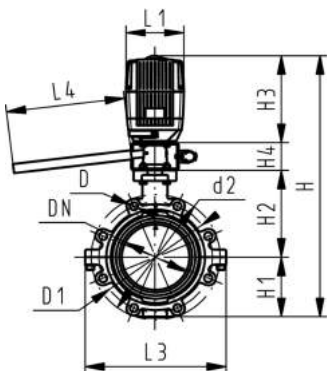
d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 141 282	1	6.281	199 141 302	1	6.281
75	2 ½	65	10	2200	199 141 283	1	6.648	199 141 303	1	6.648
90	3	80	10	3000	199 141 284	1	7.702	199 141 304	1	7.702
110	4	100	10	6500	199 141 285	1	9.217	199 141 305	1	9.217
140	5	125	10	11500	199 141 286	1	11.205	199 141 306	1	11.205
160	6	150	10	16600	199 141 287	1	13.184	199 141 307	1	13.184
225	8	200	10	39600	199 141 288	1	22.942	199 141 308	1	22.942

d [mm]	PTFE Code
63	199 141 742
75	199 141 743
90	199 141 744
110	199 141 745
140	199 141 746
160	199 141 747
225	199 141 748

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

PF 3 39 643 034



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

Model:

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

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 141 242	1	7.781	199 141 262	1	7.781
75	2 ½	65	10	2200	199 141 243	1	8.148	199 141 263	1	8.148
90	3	80	10	3000	199 141 244	1	9.202	199 141 264	1	9.202
110	4	100	10	6500	199 141 245	1	10.717	199 141 265	1	10.717
140	5	125	10	11500	199 141 246	1	12.705	199 141 266	1	12.705
160	6	150	10	16600	199 141 247	1	14.684	199 141 267	1	14.684
225	8	200	10	39600	199 141 248	1	24.442	199 141 268	1	24.442

d [mm]	PTFE Code
63	199 141 782
75	199 141 783
90	199 141 784
110	199 141 785
140	199 141 786
160	199 141 787
225	199 141 788

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

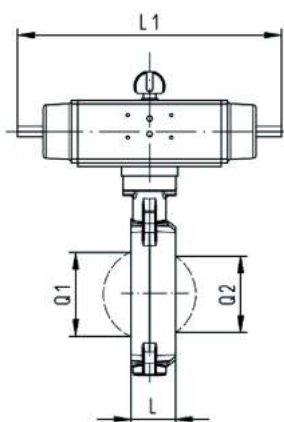
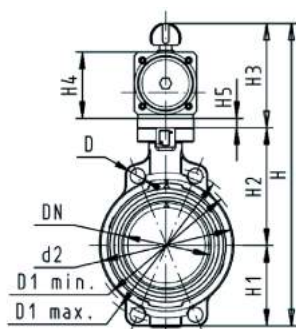
PF 3 39 643 034

Butterfly valves pneumatic

Butterfly valve type 240 PVC-C FC (Fail safe to close) Without manual override

Model:

- Control range 90°<)
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220



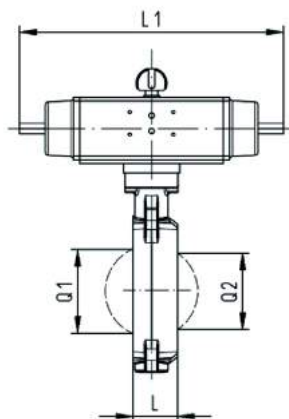
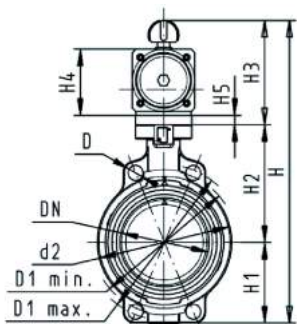
d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 240 162	1	3.218	199 240 182	1	3.218
75	2 ½	65	10	2200	199 240 163	1	3.341	199 240 183	1	3.352
90	3	80	10	3000	199 240 164	1	3.524	199 240 184	1	3.531
110	4	100	10	6500	199 240 165	1	5.271	199 240 185	1	5.371
140	5	125	10	11500	199 240 166	1	7.169	199 240 186	1	5.943
160	6	150	10	16600	199 240 167	1	10.184	199 240 187	1	10.285
225	8	200	10	39600	199 240 168	1	14.466	199 240 188	1	14.494

d [mm]	PTFE Code
63	199 240 642
75	199 240 643
90	199 240 644
110	199 240 645
140	199 240 646
160	199 240 647
225	199 240 648

d [mm]	Actuator unit type	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FC	104	19	120	125	327	77	134	117	70	15	45	276
75	PA-30 FC	115	19	140	145	340	83	140	117	70	15	46	276
90	PA-35 FC	131	19	150	160	361	89	146	126	78	15	49	326
110	PA-40 FC	161	19	175	191	400	104	167	129	86		56	370
140	PA-45 FC	187	23	210	216	436	117	181	139	96		64	411
160	PA-50 FC	215	24	241	241	468	130	189	149	106		72	423
225	PA-55 FC	267	23	290	295	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

PF 3 39 644 033



Butterfly valve type 240 PVC-C FO (Fail safe to open) Without manual override

Model:

- Control range 90°<)
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

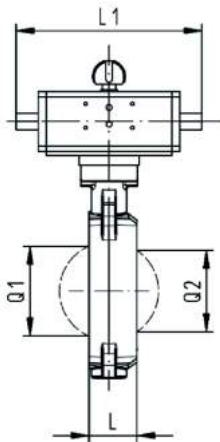
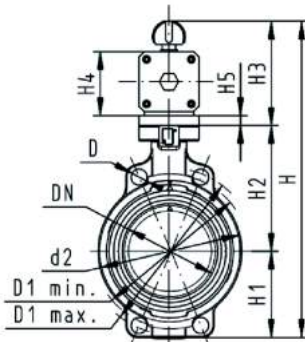
d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 240 202	1	3.439	199 240 222	1	3.443
75	2 ½	65	10	2200	199 240 203	1	3.341	199 240 223	1	3.352
90	3	80	10	3000	199 240 204	1	3.524	199 240 224	1	3.531
110	4	100	10	6500	199 240 205	1	5.357	199 240 225	1	5.371
140	5	125	10	11500	199 240 206	1	7.169	199 240 226	1	7.187
160	6	150	10	16600	199 240 207	1	10.262	199 240 227	1	10.285
225	8	200	10	39600	199 240 208	1	14.466	199 240 228	1	14.494

d [mm]	PTFE Code
63	199 240 662
75	199 240 663
90	199 240 664
110	199 240 665
140	199 240 666
160	199 240 667
225	199 240 668

d [mm]	Actuator unit type	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FO	104	19	120	125	327	77	134	117	70	15	45	276
75	PA-30 FO	115	19	140	145	340	83	140	117	70	15	46	276
90	PA-35 FO	131	19	150	160	361	89	146	126	78	15	49	326
110	PA-40 FO	161	19	175	191	400	104	167	129	86		56	370
140	PA-45 FO	187	23	210	216	436	117	181	139	96		64	411
160	PA-50 FO	215	24	241	241	468	130	189	149	106		72	423
225	PA-55 FO	267	23	290	295	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

PF 3 39 644 033



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

Model:

- Control range 90°<)
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 240 242	1	5.184	199 240 262	1	2.293
75	2 ½	65	10	2200	199 240 243	1	2.191	199 240 263	1	2.202
90	3	80	10	3000	199 240 244	1	2.884	199 240 264	1	2.862
110	4	100	10	6500	199 240 245	1	3.609	199 240 265	1	3.623
140	5	125	10	11500	199 240 246	1	4.419	199 240 266	1	4.500
160	6	150	10	16600	199 240 247	1	6.741	199 240 267	1	6.764
225	8	200	10	39600	199 240 248	1	8.466	199 240 268	1	8.494

d [mm]	PTFE Code
63	199 240 682
75	199 240 683
90	199 240 684
110	199 240 685
140	199 240 686
160	199 240 687
225	199 240 688

d [mm]	Actuator unit type	d2 [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-35 DA	104	19	120	125	317	77	134	107	60	15	45	177
75	PA-35 DA	115	19	140	145	330	83	140	107	60	15	46	177
90	PA-40 DA	131	19	150	160	348	89	146	113	66	15	49	190
110	PA-45 DA	161	19	175	191	372	104	167	102	71		56	235
140	PA-45 DA	187	23	210	216	408	117	181	111	78		64	235
160	PA-55 DA	215	24	241	241	448	130	189	129	86		72	279
225	PA-55 DA	267	23	290	295	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

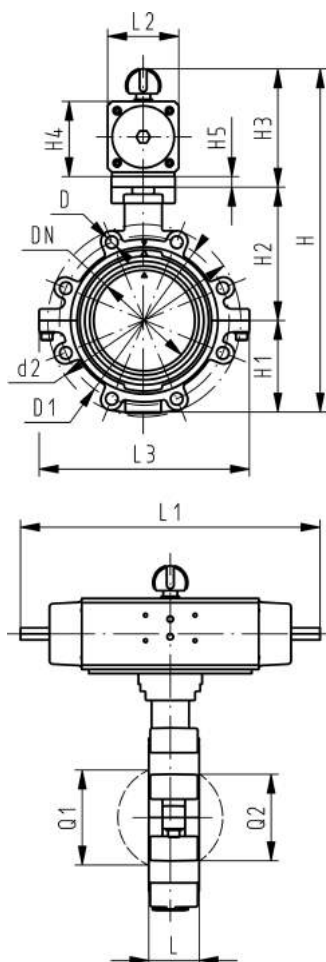
PF 3 39 644 031



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

Model:

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



d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 241 162	0	5.321	199 241 182	0	5.321
75	2 ½	65	10	2200	199 241 163	0	5.688	199 241 183	0	5.688
90	3	80	10	3000	199 241 164	0	6.742	199 241 184	0	6.742
110	4	100	10	6500	199 241 165	0	9.455	199 241 185	0	9.455
140	5	125	10	11500	199 241 166	0	12.445	199 241 186	0	12.445
160	6	150	10	16600	199 241 167	1	16.745	199 241 187	1	16.745
225	8	200	10	39600	199 241 168	0	24.442	199 241 188	0	24.442

d [mm]	PTFE Code
63	199 241 642
75	199 241 643
90	199 241 644
110	199 241 645
140	199 241 646
160	199 241 647
225	199 241 648

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

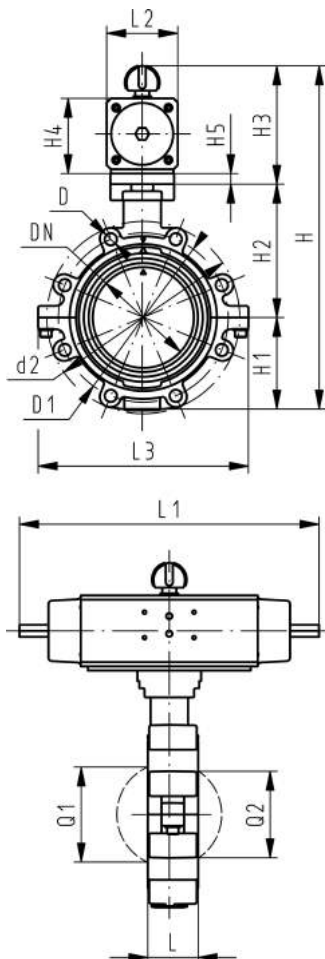
PF 3 39 644 034



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

Model:

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



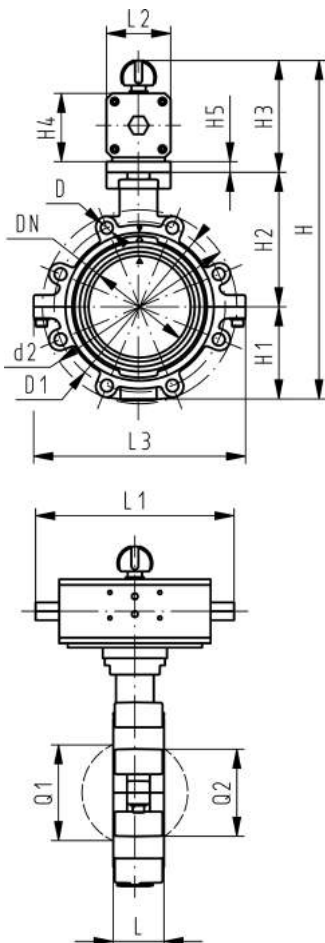
d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-val- ue ($\Delta p=1$ bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 241 202	0	5.321	199 241 222	0	5.321
75	2 ½	65	10	2200	199 241 203	0	5.688	199 241 223	0	5.688
90	3	80	10	3000	199 241 204	0	6.742	199 241 224	0	6.742
110	4	100	10	6500	199 241 205	0	9.455	199 241 225	0	9.455
140	5	125	10	11500	199 241 206	0	12.445	199 241 226	0	12.445
160	6	150	10	16600	199 241 207	1	16.745	199 241 227	1	16.745
225	8	200	10	39600	199 241 208	0	24.442	199 241 228	0	24.442

d [mm]	PTFE Code
63	199 241 662
75	199 241 663
90	199 241 664
110	199 241 665
140	199 241 666
160	199 241 667
225	199 241 668

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

PF 3 39 644 034



Lugstyle butterfly valve type 241 PVC-C DA (Double acting) Without manual override

Model:

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

d [mm]	Size [inch]	DN [mm]	PN [bar]	kv-value (Δp=1 bar) [l/min]	EPDM Code	SP	Weight [kg]	FPM Code	SP	Weight [kg]
63	2	50	10	1470	199 241 242	0	4.171	199 241 262	0	4.171
75	2 ½	65	10	2200	199 241 243	0	4.538	199 241 263	0	4.538
90	3	80	10	3000	199 241 244	0	6.073	199 241 264	0	6.073
110	4	100	10	6500	199 241 245	0	7.707	199 241 265	0	7.707
140	5	125	10	11500	199 241 246	0	9.695	199 241 266	0	9.695
160	6	150	10	16600	199 241 247	0	13.224	199 241 267	0	13.224
225	8	200	10	39600	199 241 248	0	18.442	199 241 268	0	18.442

d [mm]	PTFE Code
63	199 241 682
75	199 241 683
90	199 241 684
110	199 241 685
140	199 241 686
160	199 241 687
225	199 241 688

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

PF 3 39 644 034