

Product Range International 2016

PVC-U



Ball valves electric type 107



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

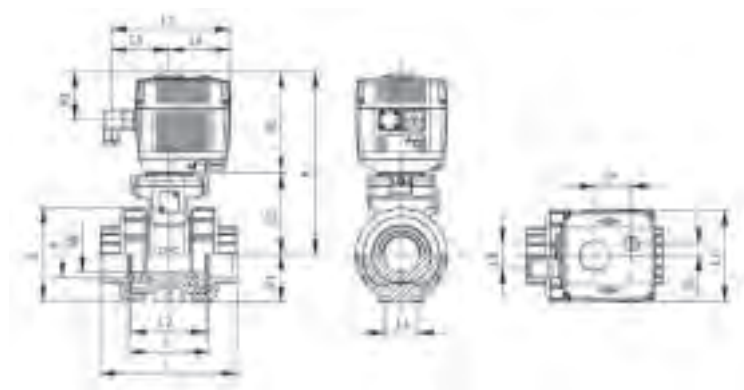
Option:

- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 107 002	2.072	199 107 012	2.072
20	15	10	185	199 107 003	2.138	199 107 013	2.072
25	20	10	350	199 107 004	2.231	199 107 014	2.232
32	25	10	700	199 107 005	2.340	199 107 015	2.189
40	32	10	1000	199 107 006	2.596	199 107 016	2.592
50	40	10	1600	199 107 007	2.829	199 107 017	2.914
63	50	10	3100	199 107 008	3.562	199 107 018	2.914

d	D	H	H1	H2	H3	H5	L	L1	L2	L4	L5	L6	L7	L8	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	closest
(mm)	inch
	(inch)
16	¾
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





Ball valve type 107 PVC-U 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

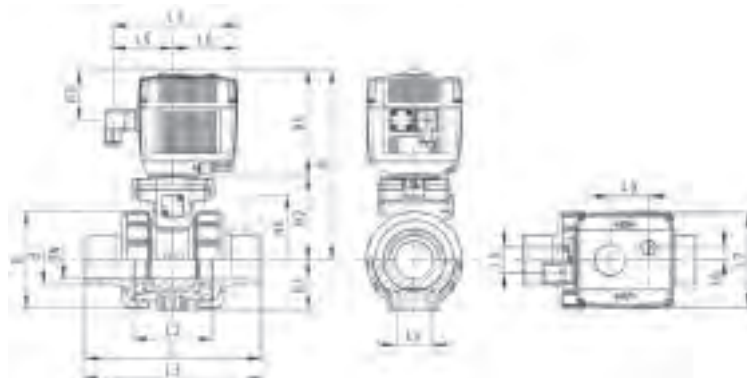
Option:

- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 107 022	2.072	199 107 032	2.072
20	15	10	185	199 107 023	2.072	199 107 033	2.072
25	20	10	350	199 107 024	2.189	199 107 034	2.189
32	25	10	700	199 107 025	2.189	199 107 035	2.189
40	32	10	1000	199 107 026	2.603	199 107 036	2.592
50	40	10	1600	199 107 027	2.914	199 107 037	2.914
63	50	10	3100	199 107 028	3.772	199 107 038	3.772

d	D	H	H1	H2	H3	H5	L	L1	L2	L3	L4	L5	L6	L7	L8
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	closest
(mm)	inch
	(inch)
16	¾
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





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

Model:

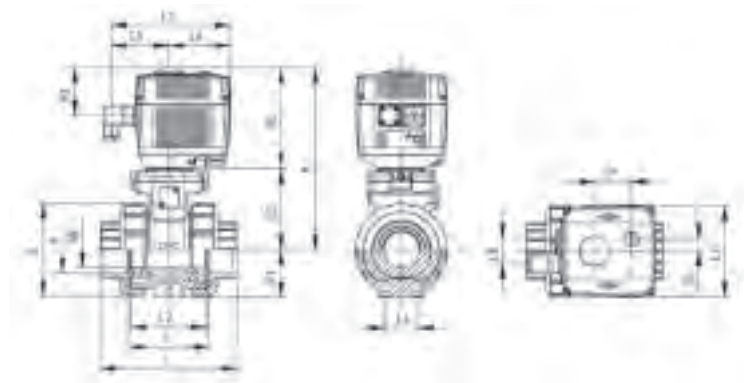
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
3/8	10	10	70	199 107 622	2.100	199 107 632	2.100
1/2	15	10	185	199 107 623	2.100	199 107 633	2.100
3/4	20	10	350	199 107 624	2.232	199 107 634	2.200
1	25	10	700	199 107 625	2.300	199 107 635	2.300
1 1/4	32	10	1000	199 107 626	2.592	199 107 636	2.600
1 1/2	40	10	1600	199 107 627	2.914	199 107 637	3.000
2	50	10	3100	199 107 628	3.772	199 107 638	3.800

Rp	D	H	H1	H2	H3	H5	L	L1	L2	L4	L5	L6	L7	L8	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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





Ball valve type 107 PVC-U 100-230V
With manual emergency override
With fixed flanges serrated 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
- Overall length according to EN 558
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

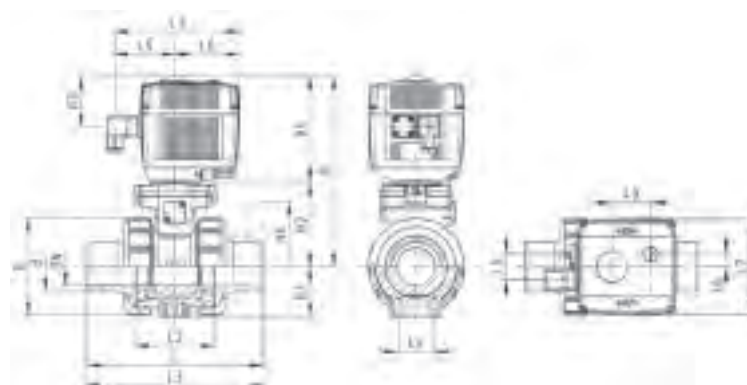
Option:

- Individual configuration of the valve (see diagram)

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	½	15	10	185	199 107 603	2.300	199 107 613	2.300
25	¾	20	10	350	199 107 604	2.500	199 107 614	2.500
32	1	25	10	700	199 107 605	2.717	199 107 615	2.700
40	1 ¼	32	10	1000	199 107 606	3.200	199 107 616	3.200
50	1 ½	40	10	1600	199 107 607	3.700	199 107 617	3.700
63	2	50	10	3100	199 107 608	4.676	199 107 618	4.776

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

d	L8
(mm)	(mm)
20	33
25	33
32	33
40	33
50	33
63	33





Ball valve type 107 PVC-U 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

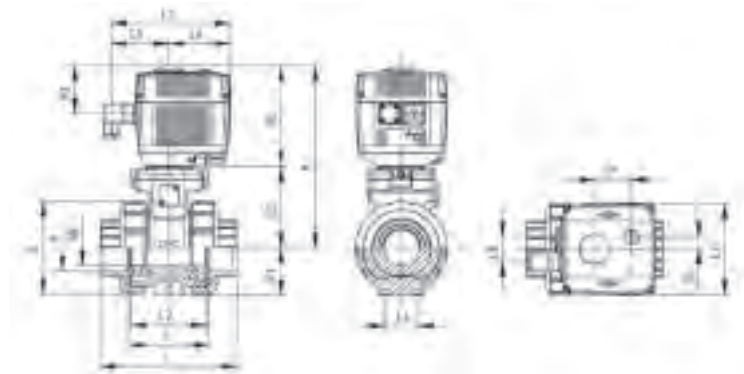
Option:

- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 107 042	2.122	199 107 052	2.072
20	15	10	185	199 107 043	2.122	199 107 053	2.125
25	20	10	350	199 107 044	2.216	199 107 054	2.860
32	25	10	700	199 107 045	2.321	199 107 055	2.189
40	32	10	1000	199 107 046	3.831	199 107 056	2.592
50	40	10	1600	199 107 047	2.809	199 107 057	3.437
63	50	10	3100	199 107 048	3.547	199 107 058	3.772

d	D	H	H1	H2	H3	H5	L	L1	L2	L4	L5	L6	L7	L8	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	closest
(mm)	inch
	(inch)
16	¾
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





Ball valve type 107 PVC-U 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

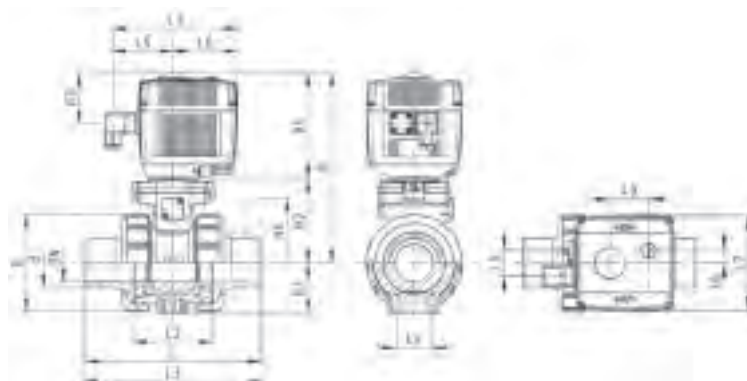
Option:

- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 107 062	2.072	199 107 072	2.072
20	15	10	185	199 107 063	2.072	199 107 073	1.830
25	20	10	350	199 107 064	2.387	199 107 074	2.189
32	25	10	700	199 107 065	2.189	199 107 075	2.189
40	32	10	1000	199 107 066	2.592	199 107 076	2.592
50	40	10	1600	199 107 067	2.914	199 107 077	2.914
63	50	10	3100	199 107 068	3.772	199 107 078	3.772

d	D	H	H1	H2	H3	H5	L	L1	L2	L3	L4	L5	L6	L7	L8
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	closest
(mm)	inch
	(inch)
16	¾
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





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

Model:

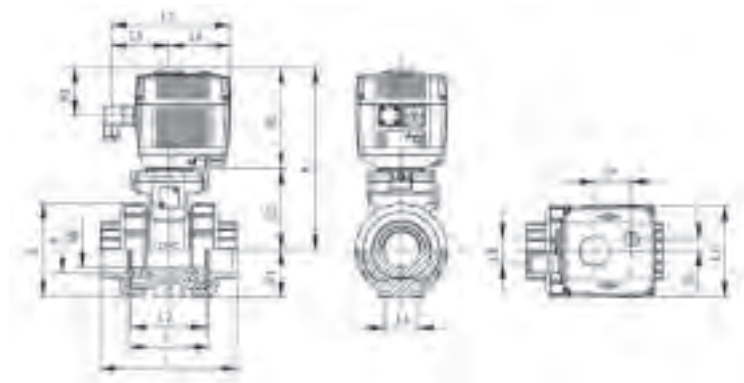
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
3/8	10	10	70	199 107 662	2.135	199 107 672	2.100
1/2	15	10	185	199 107 663	2.100	199 107 673	2.100
3/4	20	10	350	199 107 664	2.200	199 107 674	2.200
1	25	10	700	199 107 665	2.327	199 107 675	2.300
1 1/4	32	10	1000	199 107 666	2.600	199 107 676	2.600
1 1/2	40	10	1600	199 107 667	2.837	199 107 677	3.000
2	50	10	3100	199 107 668	3.602	199 107 678	3.800

Rp	D	H	H1	H2	H3	H5	L	L1	L2	L4	L5	L6	L7	L8	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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





Ball valve type 107 PVC-U 24V
With manual emergency override
With fixed flanges serrated 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
- Overall length according to EN 558
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

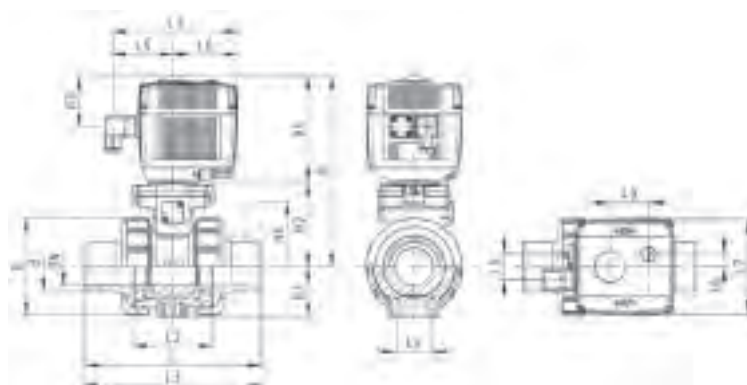
Option:

- Individual configuration of the valve (see diagram)

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	½	15	10	185	199 107 643	2.300	199 107 653	2.300
25	¾	20	10	350	199 107 644	2.500	199 107 654	2.500
32	1	25	10	700	199 107 645	2.700	199 107 655	2.700
40	1 ¼	32	10	1000	199 107 646	3.200	199 107 656	3.200
50	1 ½	40	10	1600	199 107 647	4.216	199 107 657	3.700
63	2	50	10	3100	199 107 648	4.663	199 107 658	4.800

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

d	L8
(mm)	(mm)
20	33
25	33
32	33
40	33
50	33
63	33



Ball valves electric type 179



Ball valve type 179 PVC-U 100-230V
With manual emergency override
With solvent cement sockets metric

Model:

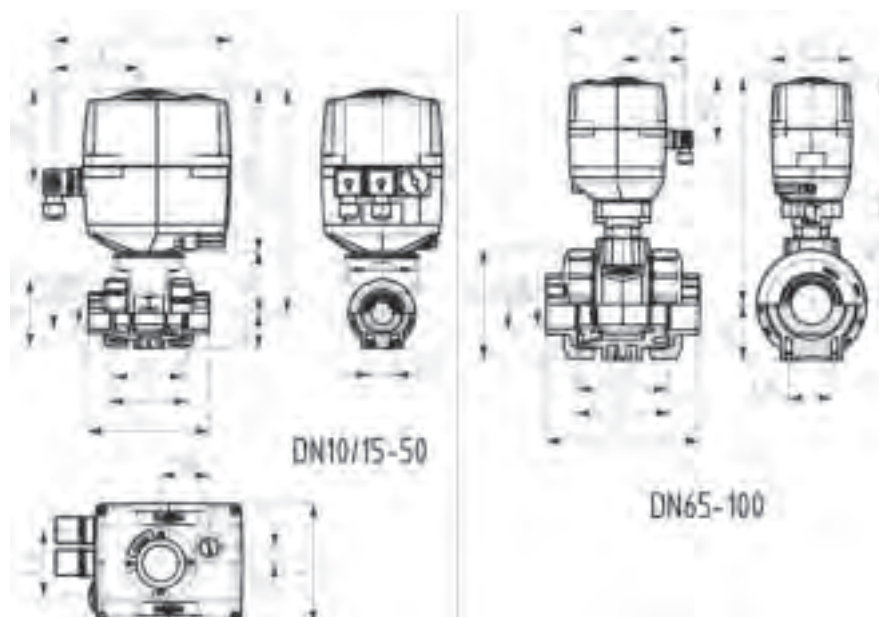
- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d	DN	PN	kv-value	EA	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
			(l/min)					
16	10	10	70	EA25	199 179 002	2.100	199 179 012	2.100
20	15	10	185	EA25	199 179 003	2.462	199 179 013	2.100
25	20	10	350	EA25	199 179 004	2.563	199 179 014	2.200
32	25	10	700	EA25	199 179 005	2.300	199 179 015	2.300
40	32	10	1000	EA25	199 179 006	2.692	199 179 016	2.600
50	40	10	1600	EA25	199 179 007	3.154	199 179 017	3.168
63	50	10	3100	EA25	199 179 008	3.888	199 179 018	3.800
75	65	10	5000	EA45	199 179 009	7.631	199 179 019	7.400
90	80	10	7000	EA45	199 179 010	9.800	199 179 020	9.800
110	100	10	11000	EA120	199 179 011	14.791	199 179 021	14.100

d	D	H	H1	H2	H3	H5	L	L1	L2	L4	L5	L7	z	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	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





Ball valve type 179 PVC-U 100-230V
With manual emergency override
With backing flanges PP-st metric

Model:

- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

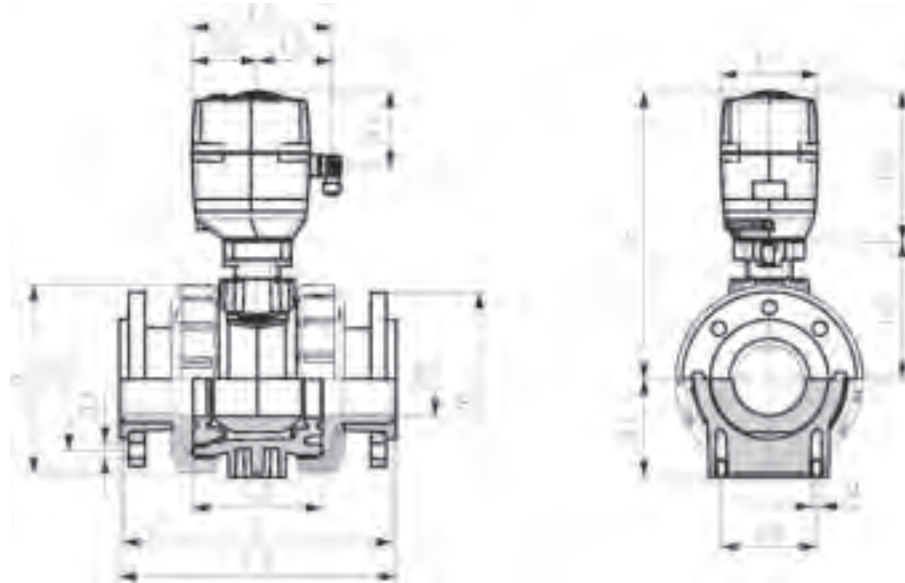
Option:

- Other valve and actuator configurations available

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EA	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
75	65	10	5000	EA45	199 179 349	10.749	199 179 359	11.500
90	80	10	7000	EA45	199 179 350	14.900	199 179 360	14.900
110	100	10	11000	EA120	199 179 351	20.900	199 179 361	20.900

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





Ball valve type 179 PVC-U 24V
With manual emergency override
With solvent cement sockets metric

Model:

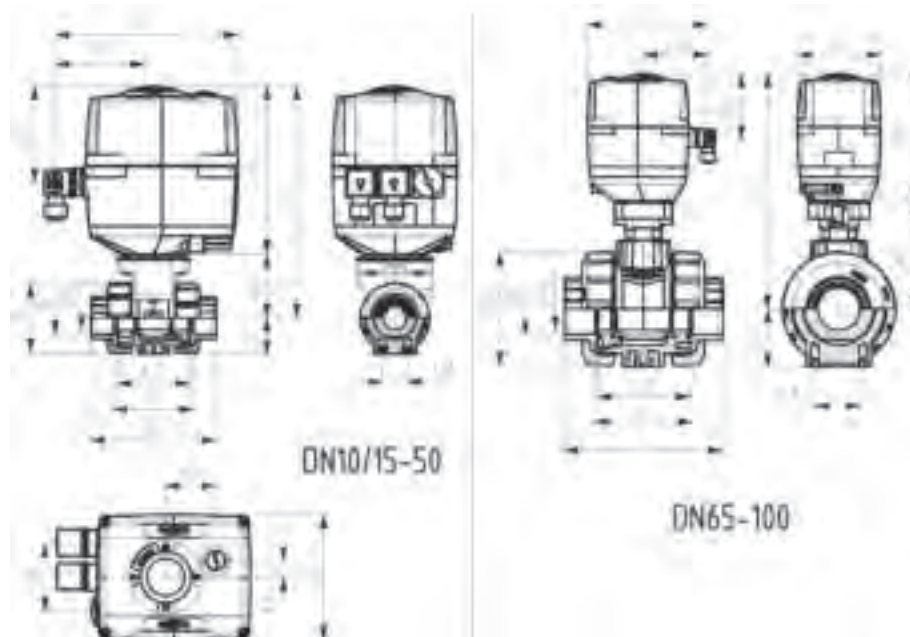
- Voltage 24 V AC/DC
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

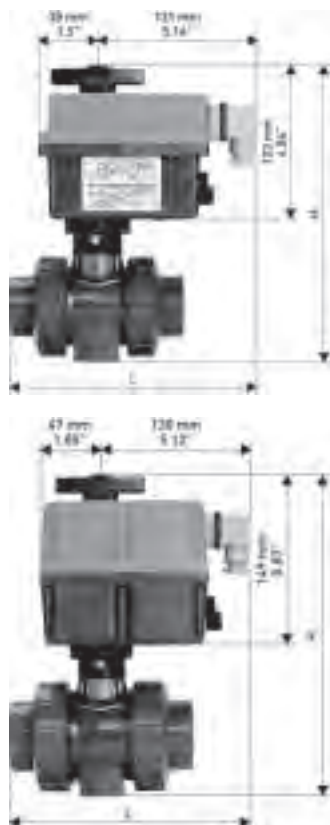
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d	DN	PN	kv-value	EA	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
			(l/min)					
16	10	10	70	EA25	199 179 042	3.112	199 179 052	2.100
20	15	10	185	EA25	199 179 043	2.447	199 179 053	2.100
25	20	10	350	EA25	199 179 044	2.542	199 179 054	2.543
32	25	10	700	EA25	199 179 045	2.645	199 179 055	2.647
40	32	10	1000	EA25	199 179 046	2.905	199 179 056	2.600
50	40	10	1600	EA25	199 179 047	3.000	199 179 057	3.144
63	50	10	3100	EA25	199 179 048	3.880	199 179 058	3.886
75	65	10	5000	EA45	199 179 049	7.531	199 179 059	7.400
90	80	10	7000	EA45	199 179 050	9.800	199 179 060	9.800
110	100	10	11000	EA120	199 179 051	14.100	199 179 061	14.100

d	D	H	H1	H2	H3	H5	L	L1	L2	L4	L5	L7	z	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
														(inch)
16	50	231	27	64	94	167	92	180	56	25	97	122	64	$\frac{3}{8}$
20	50	231	27	64	94	167	95	180	56	25	97	122	64	$\frac{1}{2}$
25	58	240	30	73	94	167	110	180	65	25	97	122	72	$\frac{3}{4}$
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 $\frac{1}{4}$
50	97	251	51	84	94	167	157	180	89	45	97	122	95	1 $\frac{1}{2}$
63	124	273	64	106	94	167	183	180	101	45	97	122	107	2
75	166	347	85	156	94	190	233	180	136	70	98	122	144	2 $\frac{1}{2}$
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



Ball valves electric type 104



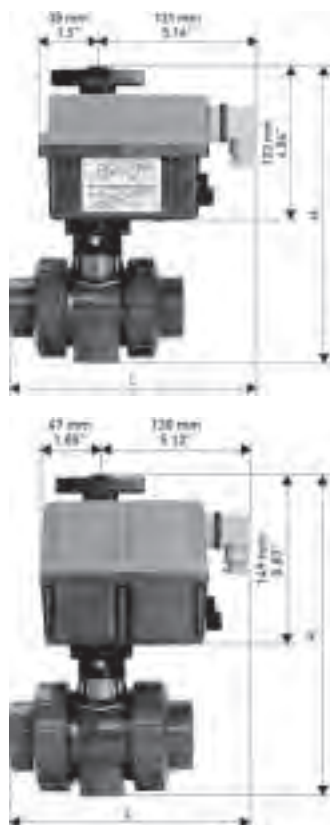
Ball valve type 104 PVC-U 100-230V
With solvent cement sockets metric

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	Weight (kg)	FPM Code
16	10	10	70	199 104 002	0.995	199 104 012
20	15	10	185	199 104 003	0.995	199 104 013
25	20	10	350	199 104 004	1.050	199 104 014
32	25	10	700	199 104 005	1.120	199 104 015
40	32	10	1000	199 104 006	1.290	199 104 016
50	40	10	1600	199 104 007	2.010	199 104 017
63	50	10	3100	199 104 008	2.395	199 104 018

d (mm)	H (mm)	L (mm)	Type of actuator	B (mm)
16	194	178.5	10Nm	50
20	194	178.5	10Nm	50
25	207	186.0	10Nm	58
32	217	192.5	10Nm	68
40	236	204.5	10Nm	84
50	275	208.5	20Nm	97
63	307	221.5	20Nm	124



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

Model:

- Voltage 24 V AC/DC
- 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	Weight (kg)	FPM Code
16	10	10	70	199 104 042	0.995	199 104 052
20	15	10	185	199 104 043	0.995	199 104 053
25	20	10	350	199 104 044	1.050	199 104 054
32	25	10	700	199 104 045	1.120	199 104 055
40	32	10	1000	199 104 046	1.290	199 104 056
50	40	10	1600	199 104 047	2.010	199 104 057
63	50	10	3100	199 104 048	2.395	199 104 058

d (mm)	H (mm)	L (mm)	Type of actuator	B (mm)
16	194	178.5	10Nm	50
20	194	178.5	10Nm	50
25	207	186.0	10Nm	58
32	217	192.5	10Nm	68
40	236	204.5	20Nm	84
50	275	208.5	20Nm	97
63	307	221.5	20Nm	124

Product Configurator

Create your own actuator

Electric Actuator

- T01 EA 1124V with Cable Plug
- T02 EA 1100-230V with Cable Plug
- T07 EA 25 24V with Cable Plug
- T08 EA 25 100-230V with Cable Plug
- T09 EA 120 24V with Cable Plug
- T10 EA 120 100-230V with Cable Plug
- T11 EA 250 24V with Cable Plug
- T12 EA 250 100-230V with Cable Plug



Angle (Open/ Close)

- W45 45°
- W90 90°
- W180 180°

Middle Position

- W17 No
- W18 Yes

Colour Assignment Feedback

- W20 Open = rot
- W21 Open= grün

Position Feedback

- W23 Open/ Close
- W24 Open/ Close/ Middle
- W25 Middle

Wiring Feedback

- W26 NC
- W28 NO

Heating Threshold

- W29 5°
- ... [5°steps]
- W37 45°

Failsafe Return uni

- W39 Integrated (Battery powered)
- W40 External (no Battery - 24V needed)

Accessory

- W42 Positioner
- W43 Monitoring
- W44 Profibus

Setting Positioner

- W46 BCD = 0
- ...
- W55 BCD = 9

Setting Motor Current

- W56 BCD = 0
- ...
- W65 BCD = 9

Setting Cycle Time

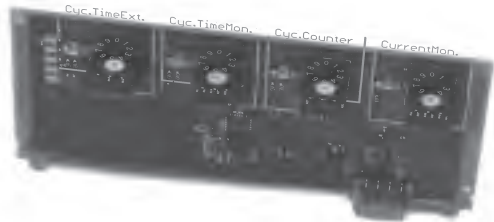
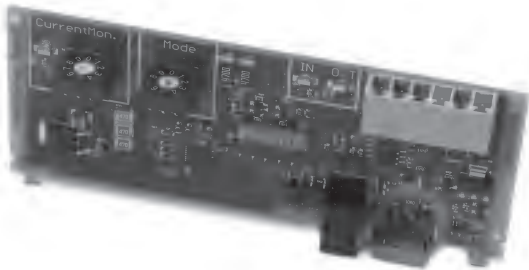
- W66 BCD = 0
- ...
- W75 BCD = 9

Setting Cycle Time Monitoring

- W76 BCD = 0
- ...
- W85 BCD = 9

Setting Cycle Counter

- W86 BCD = 0
- ...
- W96 BCD = 9



T08	W90	W17	W20	W23	W26	W29	W39	W42	W46	W65	-	-	-	=
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	---	---	---	---

Ball valves pneumatic type 230



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

Model:

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

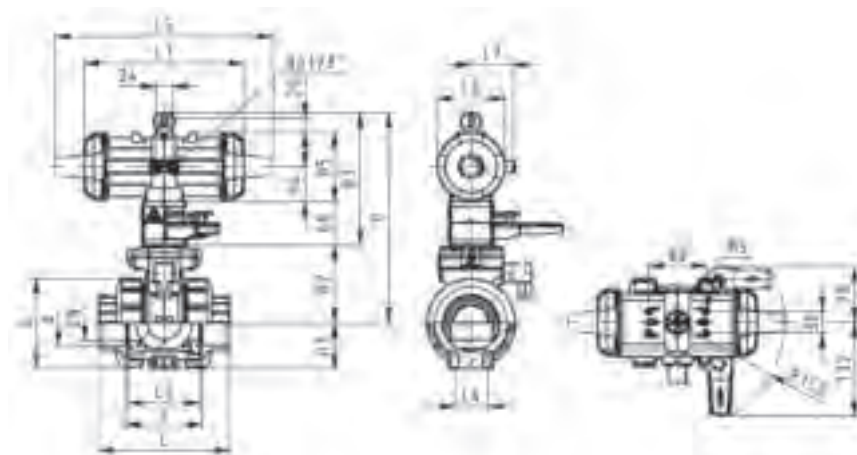
Option:

- Individual configuration of the valve (see diagram)

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	10	70	199 230 002	1.459	199 230 012	1.459
20	15	10	185	199 230 003	1.459	199 230 013	1.459
25	20	10	350	199 230 004	1.576	199 230 014	1.576
32	25	10	700	199 230 005	1.454	199 230 015	1.474
40	32	10	1000	199 230 006	2.436	199 230 016	2.443
50	40	10	1600	199 230 007	2.664	199 230 017	2.670
63	50	10	3100	199 230 008	4.364	199 230 018	3.419

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





DN10/15 - 50



DN10/15 - 50

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

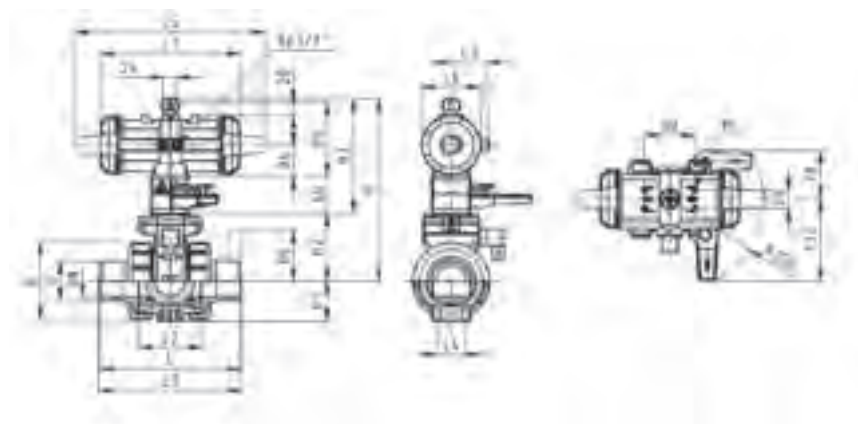
Option:

- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 230 022	1.459	199 230 032	1.459
20	15	10	185	199 230 023	1.459	199 230 033	1.459
25	20	10	350	199 230 024	1.576	199 230 034	1.576
32	25	10	700	199 230 025	1.700	199 230 035	1.700
40	32	10	1000	199 230 026	2.751	199 230 036	2.751
50	40	10	1600	199 230 027	3.073	199 230 037	3.073
63	50	10	3100	199 230 028	3.931	199 230 038	3.931

d	D	H	H1	H2	H3	H4	H5	L	L1	L2	L3	L4	L5	L6	L7
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	closest
(mm)	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





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

Model:

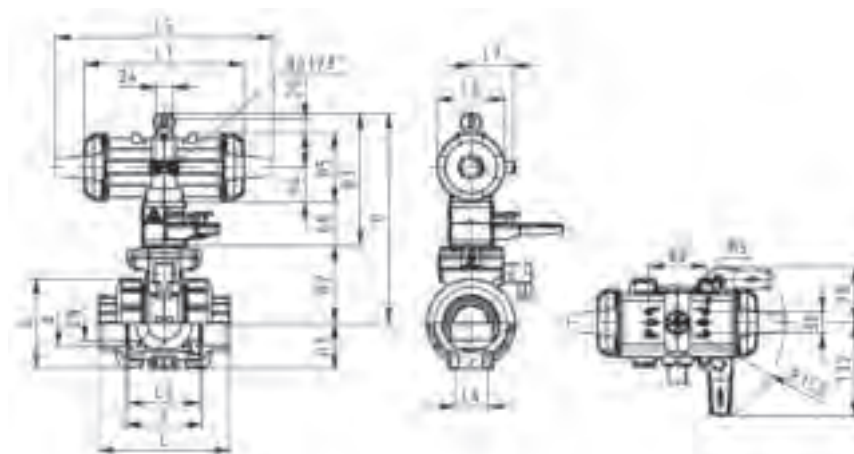
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
3/8	10	10	70	199 230 362	1.500	199 230 372	1.500
1/2	15	10	185	199 230 363	1.500	199 230 373	1.500
3/4	20	10	350	199 230 364	1.369	199 230 374	1.600
1	25	10	700	199 230 365	1.700	199 230 375	1.700
1 1/4	32	10	1000	199 230 366	2.800	199 230 376	2.800
1 1/2	40	10	1600	199 230 367	3.100	199 230 377	3.100
2	50	10	3100	199 230 368	4.000	199 230 378	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)
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





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

With manual override

With fixed flanges serrated metric

Model:

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

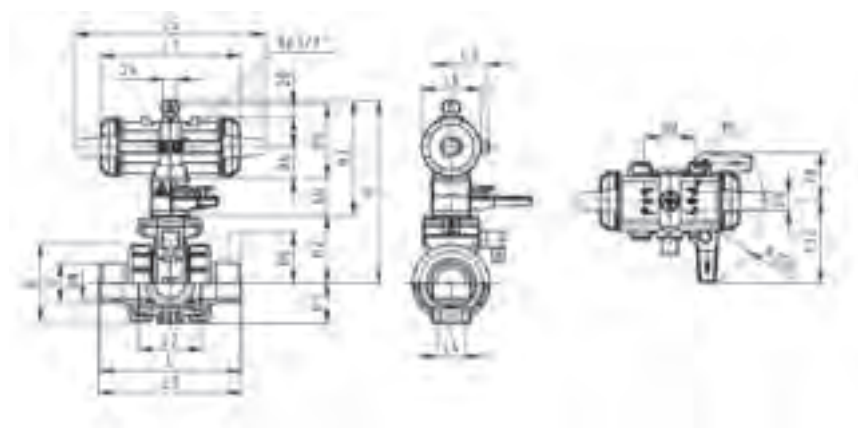
Option:

- Individual configuration of the valve (see diagram)

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	½	15	10	185	199 230 243	1.700	199 230 253	1.700
25	¾	20	10	350	199 230 244	1.900	199 230 254	1.900
32	1	25	10	700	199 230 245	1.858	199 230 255	2.100
40	1 ¼	32	10	1000	199 230 246	3.400	199 230 256	3.400
50	1 ½	40	10	1600	199 230 247	3.073	199 230 257	3.800
63	2	50	10	3100	199 230 248	4.900	199 230 258	4.900

d	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L5	L6
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	50	230	27	62	168	40	77	48	124	194	56	130	25	261	76
25	58	239	30	71	168	40	77	53	144	194	65	150	25	261	76
32	68	239	36	71	168	40	77	58	154	194	71	160	25	261	76
40	84	271	44	84	187	51	99	70	174	224	85	180	45	305	95
50	97	271	51	84	187	51	99	75	194	224	89	200	45	305	95
63	124	293	64	106	187	51	99	83	224	224	101	230	45	305	95

d	L7
(mm)	(mm)
20	48
25	48
32	48
40	59
50	59
63	59





Ball valve type 230 PVC-U F0 (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° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

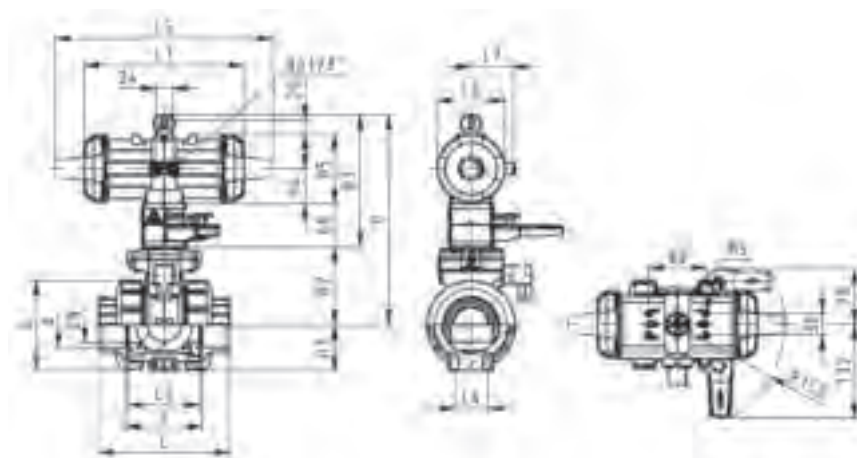
Option:

- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 230 042	1.459	199 230 052	1.459
20	15	10	185	199 230 043	1.459	199 230 053	1.459
25	20	10	350	199 230 044	1.336	199 230 054	1.576
32	25	10	700	199 230 045	1.700	199 230 055	1.700
40	32	10	1000	199 230 046	2.751	199 230 056	2.751
50	40	10	1600	199 230 047	3.073	199 230 057	3.073
63	50	10	3100	199 230 048	3.360	199 230 058	3.931

d	D	H	H1	H2	H3	H4	H5	L	L1	L2	L4	L5	L6	L7	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	closest
(mm)	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





DN10/15 - 50



DN10/15 - 50

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

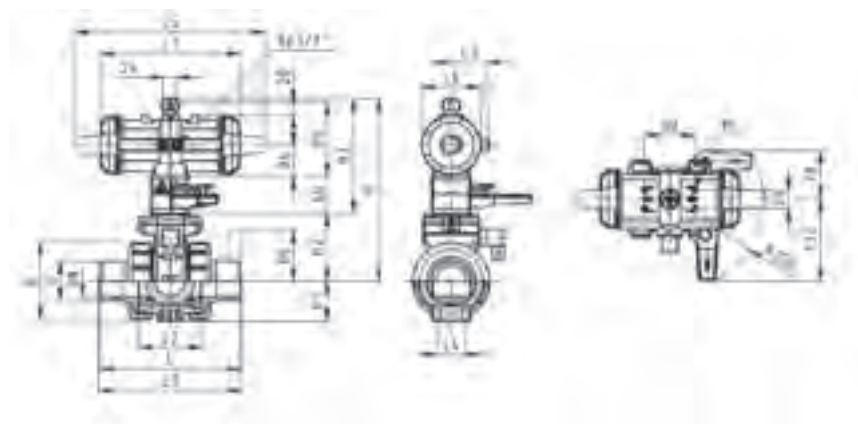
Option:

- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 230 062	1.459	199 230 072	1.459
20	15	10	185	199 230 063	1.459	199 230 073	1.459
25	20	10	350	199 230 064	1.576	199 230 074	1.576
32	25	10	700	199 230 065	1.700	199 230 075	1.700
40	32	10	1000	199 230 066	2.751	199 230 076	2.751
50	40	10	1600	199 230 067	3.073	199 230 077	3.073
63	50	10	3100	199 230 068	3.931	199 230 078	3.931

d	D	H	H1	H2	H3	H4	H5	L	L1	L2	L3	L4	L5	L6	L7
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	closest
(mm)	inch
	(inch)
16	3/8
20	1/2
25	3/4
32	1
40	1 1/4
50	1 1/2
63	2





Ball valve type 230 PVC-U F0 (Fail safe to open)

With manual override

With threaded sockets Rp

Model:

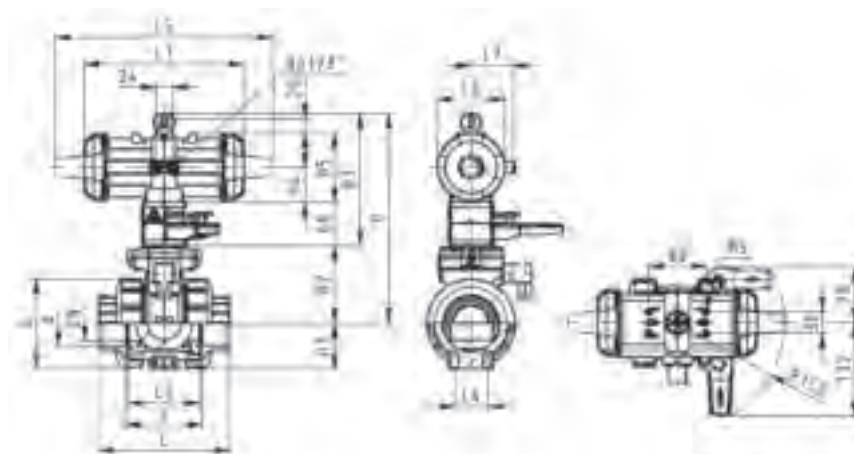
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
3/8	10	10	70	199 230 382	1.500	199 230 392	1.500
1/2	15	10	185	199 230 383	1.500	199 230 393	1.500
3/4	20	10	350	199 230 384	1.600	199 230 394	1.600
1	25	10	700	199 230 385	1.700	199 230 395	1.700
1 1/4	32	10	1000	199 230 386	2.800	199 230 396	2.800
1 1/2	40	10	1600	199 230 387	3.100	199 230 397	3.100
2	50	10	3100	199 230 388	4.000	199 230 398	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)
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





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

Model:

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

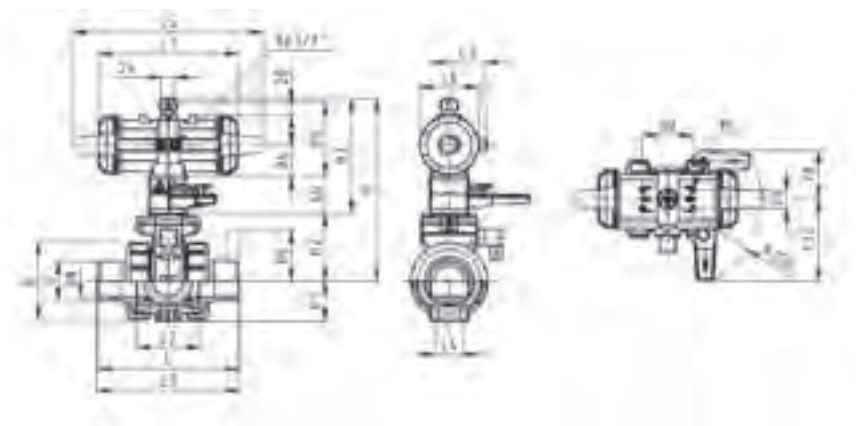
Option:

- Individual configuration of the valve (see diagram)

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	½	15	10	185	199 230 263	1.700	199 230 273	1.700
25	¾	20	10	350	199 230 264	1.900	199 230 274	1.900
32	1	25	10	700	199 230 265	2.100	199 230 275	2.100
40	1 ¼	32	10	1000	199 230 266	3.400	199 230 276	3.400
50	1 ½	40	10	1600	199 230 267	3.800	199 230 277	3.800
63	2	50	10	3100	199 230 268	4.900	199 230 278	4.900

d	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L5	L6
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	50	230	27	62	168	40	77	48	124	194	56	130	25	261	76
25	58	239	30	71	168	40	77	53	144	194	65	150	25	261	76
32	68	239	36	71	168	40	77	58	154	194	71	160	25	261	76
40	84	271	44	84	187	51	99	70	174	224	85	180	45	305	95
50	97	271	51	84	187	51	99	75	194	224	89	200	45	305	95
63	124	293	64	106	187	51	99	83	224	224	101	230	45	305	95

d	L7
(mm)	(mm)
20	48
25	48
32	48
40	59
50	59
63	59





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

With manual override

With solvent cement sockets metric

Model:

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

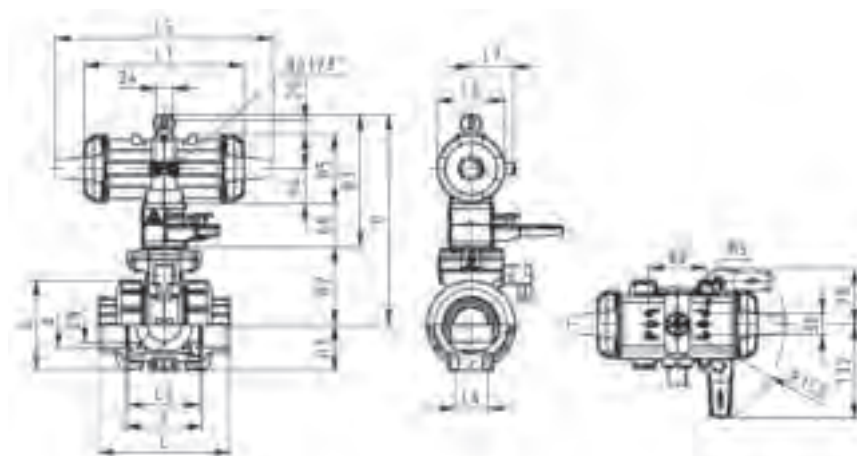
Option:

- Individual configuration of the valve (see diagram)

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	10	70	199 230 082	1.459	199 230 092	1.459
20	15	10	185	199 230 083	1.459	199 230 093	1.044
25	20	10	350	199 230 084	1.139	199 230 094	1.576
32	25	10	700	199 230 085	1.241	199 230 095	1.700
40	32	10	1000	199 230 086	1.941	199 230 096	2.751
50	40	10	1600	199 230 087	2.172	199 230 097	3.073
63	50	10	3100	199 230 088	2.912	199 230 098	2.923

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	$\frac{3}{8}$
20	$\frac{1}{2}$
25	$\frac{3}{4}$
32	1
40	1 $\frac{1}{4}$
50	1 $\frac{1}{2}$
63	2





DN10/15 - 50



DN10/15 - 50

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

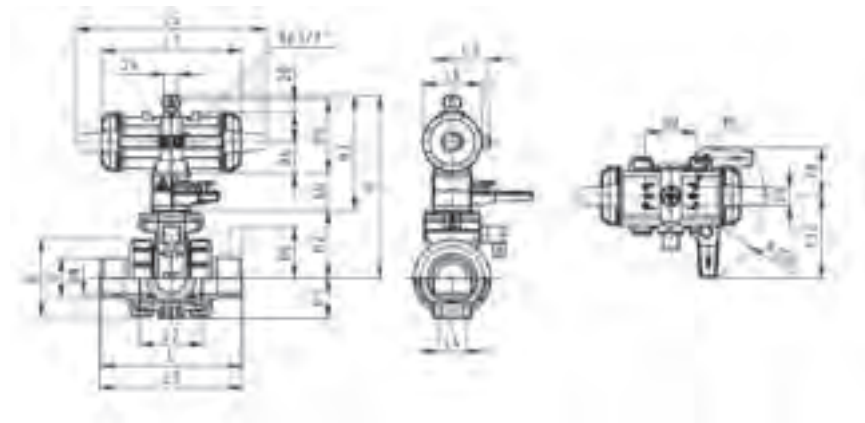
Option:

- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 230 102	1.459	199 230 112	1.459
20	15	10	185	199 230 103	1.459	199 230 113	1.459
25	20	10	350	199 230 104	1.576	199 230 114	1.576
32	25	10	700	199 230 105	1.700	199 230 115	1.700
40	32	10	1000	199 230 106	2.751	199 230 116	2.751
50	40	10	1600	199 230 107	3.073	199 230 117	3.073
63	50	10	3100	199 230 108	3.931	199 230 118	3.931

d	D	H	H1	H2	H3	H4	H5	L	L1	L2	L3	L4	L5	L6	L7
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	closest
(mm)	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





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

With manual override

With threaded sockets Rp

Model:

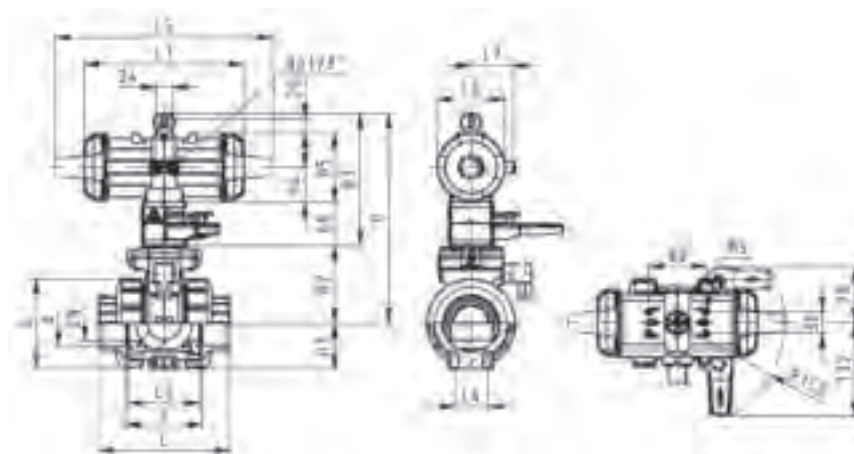
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
3/8	10	10	70	199 230 642	1.500	199 230 652	1.500
1/2	15	10	185	199 230 643	1.500	199 230 653	1.500
3/4	20	10	350	199 230 644	1.600	199 230 654	1.600
1	25	10	700	199 230 645	1.700	199 230 655	1.700
1 1/4	32	10	1000	199 230 646	2.800	199 230 656	2.800
1 1/2	40	10	1600	199 230 647	3.100	199 230 657	3.100
2	50	10	3100	199 230 648	4.000	199 230 658	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)
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





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

Model:

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

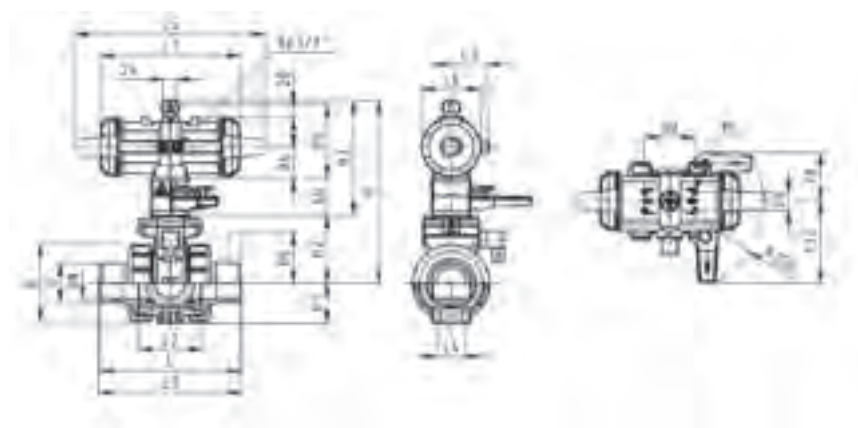
Option:

- Individual configuration of the valve (see diagram)

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	½	15	10	185	199 230 283	1.700	199 230 293	1.700
25	¾	20	10	350	199 230 284	1.900	199 230 294	1.900
32	1	25	10	700	199 230 285	2.100	199 230 295	2.100
40	1 ¼	32	10	1000	199 230 286	2.579	199 230 296	3.400
50	1 ½	40	10	1600	199 230 287	3.800	199 230 297	3.800
63	2	50	10	3100	199 230 288	4.900	199 230 298	4.900

d	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L5	L6
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
20	50	230	27	62	168	40	77	48	124	194	56	130	25	261	76
25	58	239	30	71	168	40	77	53	144	194	65	150	25	261	76
32	68	239	36	71	168	40	77	58	154	194	71	160	25	261	76
40	84	271	44	84	187	51	99	70	174	224	85	180	45	305	95
50	97	271	51	84	187	51	99	75	194	224	89	200	45	305	95
63	124	293	64	106	187	51	99	83	224	224	101	230	45	305	95

d	L7
(mm)	(mm)
20	48
25	48
32	48
40	59
50	59
63	59





DN10/15 - 50



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

Without manual override

With solvent cement sockets metric

Model:

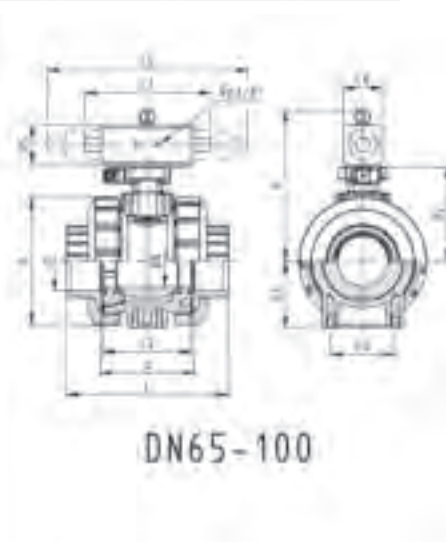
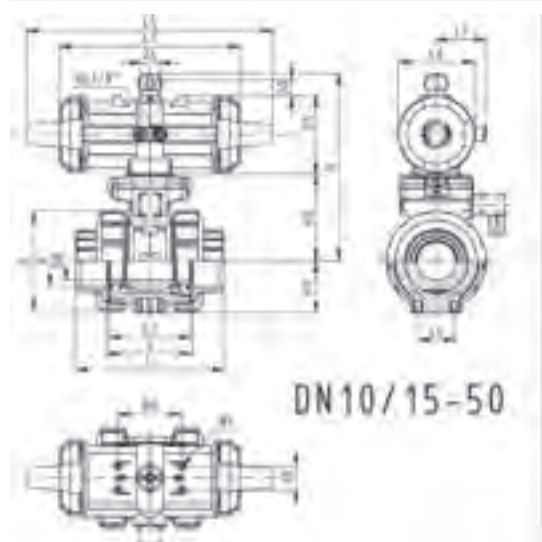
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 230 122	3.074	199 230 132	1.159
20	15	10	185	199 230 123	1.034	199 230 133	1.034
25	20	10	350	199 230 124	1.133	199 230 134	1.133
32	25	10	700	199 230 125	1.233	199 230 135	1.238
40	32	10	1000	199 230 126	2.183	199 230 136	2.188
50	40	10	1600	199 230 127	2.408	199 230 137	2.421
63	50	10	3100	199 230 128	3.121	199 230 138	3.163
75	65	10	5000	199 230 129	6.136	199 230 139	7.800
90	80	10	7000	199 230 130	9.536	199 230 140	10.200
110	100	10	11000	199 230 131	15.500	199 230 141	15.500

d	D	H	H1	H2	H5	L	L1	L2	L4	L5	L6	L7	z	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
														(inch)
16	50	159	27	62	77	92	194	56	25	261	76	48	64	$\frac{3}{8}$
20	50	159	27	62	77	95	194	56	25	261	76	48	64	$\frac{1}{2}$
25	58	168	30	71	77	110	194	65	25	261	76	48	72	$\frac{3}{4}$
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 $\frac{1}{4}$
50	97	202	51	84	99	157	224	89	45	305	95	59	95	1 $\frac{1}{2}$
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 $\frac{1}{2}$
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





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

Without manual override

With solvent cement spigots metric

Model:

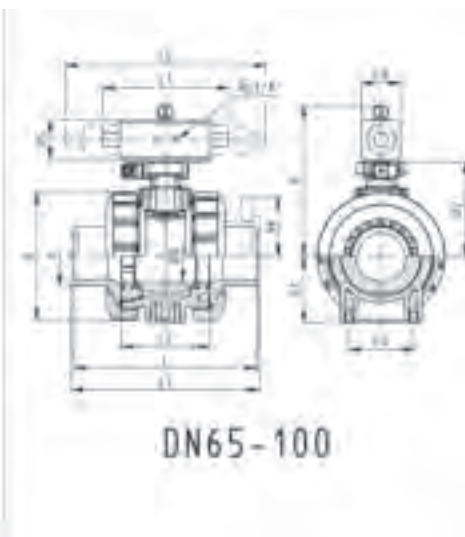
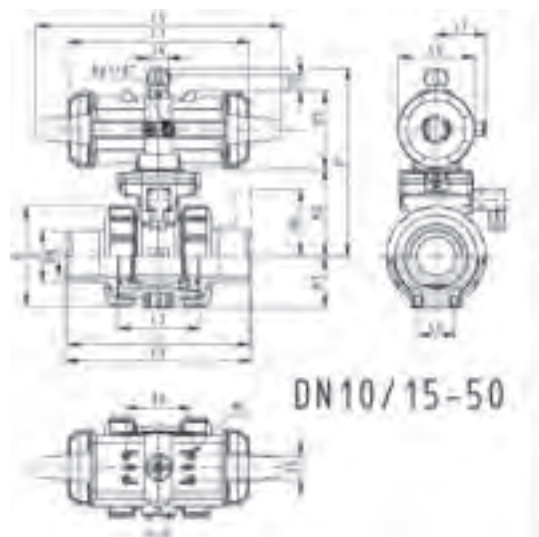
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 230 142	1.159	199 230 152	1.159
20	15	10	185	199 230 143	1.159	199 230 153	1.159
25	20	10	350	199 230 144	1.276	199 230 154	1.276
32	25	10	700	199 230 145	1.400	199 230 155	1.400
40	32	10	1000	199 230 146	2.451	199 230 156	2.451
50	40	10	1600	199 230 147	2.773	199 230 157	2.773
63	50	10	3100	199 230 148	3.631	199 230 158	3.631
75	65	10	5000	199 230 149	7.900	199 230 159	7.900
90	80	10	7000	199 230 150	10.400	199 230 160	10.400
110	100	10	11000	199 230 151	15.700	199 230 161	15.700

d	D	H	H1	H2	H5	L	L1	L2	L3	L4	L5	L6	L7	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
														(inch)
16	50	159	27	62	77	114	194	56	0	25	261	76	48	$\frac{3}{8}$
20	50	159	27	62	77	124	194	56	130	25	261	76	48	$\frac{1}{2}$
25	58	168	30	71	77	144	194	65	150	25	261	76	48	$\frac{3}{4}$
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 $\frac{1}{4}$
50	97	202	51	84	99	194	224	89	200	45	305	95	59	1 $\frac{1}{2}$
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 $\frac{1}{2}$
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





DN10/15 - 50



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

Without manual override

With threaded sockets Rp

Model:

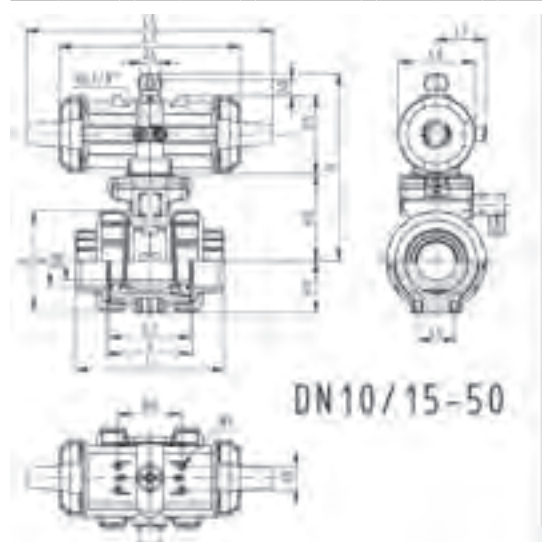
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

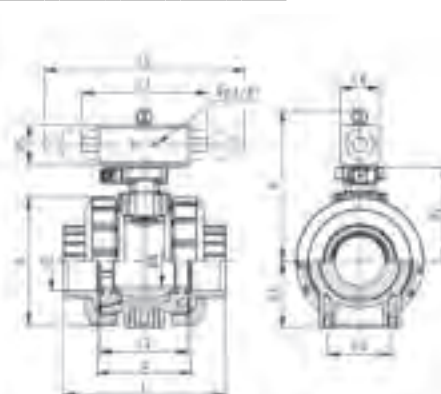
- Individual configuration of the valve (see diagram)

Rp (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	70	199 230 662	1.200	199 230 672	1.200
1/2	15	10	185	199 230 663	1.200	199 230 673	1.200
3/4	20	10	350	199 230 664	1.300	199 230 674	1.300
1	25	10	700	199 230 665	1.400	199 230 675	1.400
1 1/4	32	10	1000	199 230 666	2.500	199 230 676	2.500
1 1/2	40	10	1600	199 230 667	3.073	199 230 677	2.800
2	50	10	3100	199 230 668	3.931	199 230 678	3.700
2 1/2	65	10	5000	199 230 669	7.800	199 230 679	7.800
3	80	10	7000	199 230 670	10.300	199 230 680	10.300
4	100	10	11000	199 230 671	15.500	199 230 681	15.500

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



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

Without manual override

With fixed flanges serrated metric

Model:

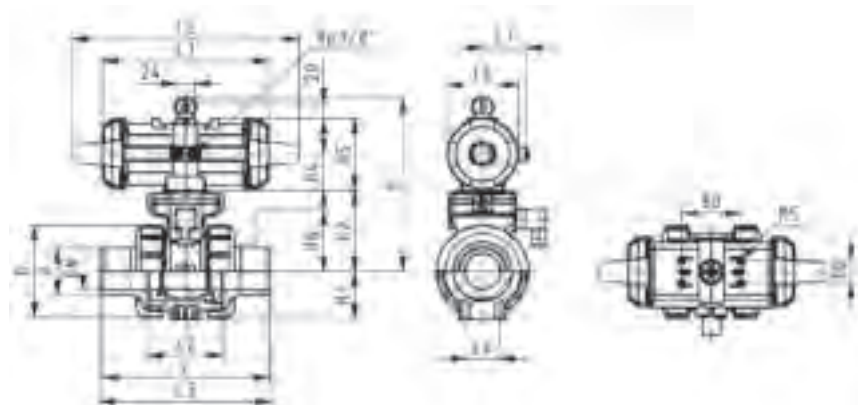
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	½	15	10	185	199 230 303	1.700	199 230 313	1.700
25	¾	20	10	350	199 230 304	1.900	199 230 314	1.900
32	1	25	10	700	199 230 305	2.100	199 230 315	2.100
40	1 ¼	32	10	1000	199 230 306	3.400	199 230 316	3.400
50	1 ½	40	10	1600	199 230 307	3.800	199 230 317	3.800
63	2	50	10	3100	199 230 308	4.900	199 230 318	4.900

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





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

Without manual override

With backing flanges PP-st metric

Model:

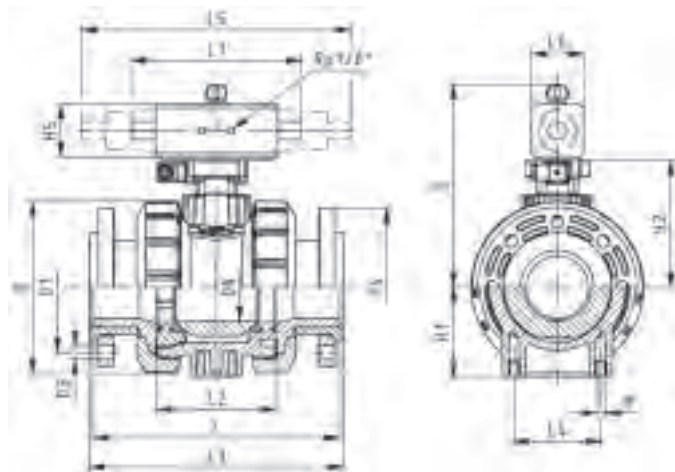
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 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	Weight (kg)	FPM Code	Weight (kg)
75	65	10	5000	199 234 469	11.900	199 234 479	11.900
90	80	10	7000	199 234 470	12.976	199 234 480	15.300
110	100	10	11000	199 234 471	22.300	199 234 481	22.300

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





DN10/15 - 50



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

Without manual override

With solvent cement sockets metric

Model:

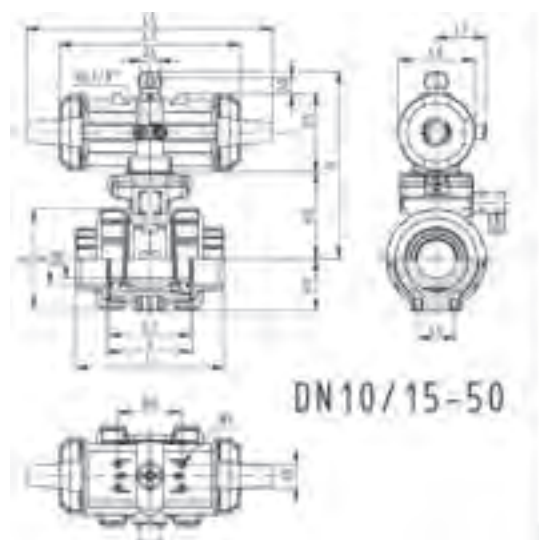
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

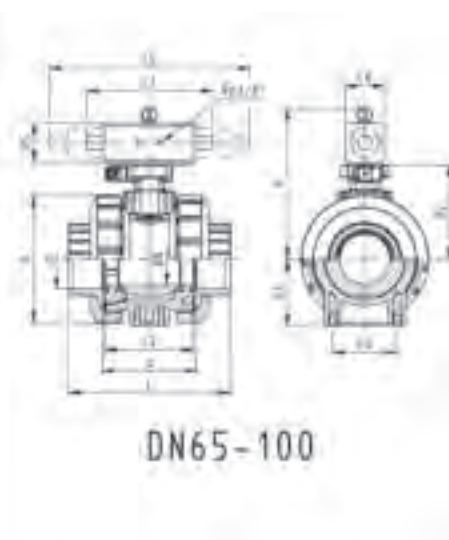
- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 230 162	1.159	199 230 172	1.159
20	15	10	185	199 230 163	1.159	199 230 173	1.159
25	20	10	350	199 230 164	1.128	199 230 174	1.276
32	25	10	700	199 230 165	1.400	199 230 175	1.400
40	32	10	1000	199 230 166	2.184	199 230 176	2.451
50	40	10	1600	199 230 167	2.388	199 230 177	2.773
63	50	10	3100	199 230 168	3.156	199 230 178	3.631
75	65	10	5000	199 230 169	7.800	199 230 179	7.800
90	80	10	7000	199 230 170	10.200	199 230 180	10.200
110	100	10	11000	199 230 171	15.500	199 230 181	15.500

d	D	H	H1	H2	H5	L	L1	L2	L4	L5	L6	L7	z	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
														(inch)
16	50	159	27	62	77	92	194	56	25	261	76	48	64	$\frac{3}{8}$
20	50	159	27	62	77	95	194	56	25	261	76	48	64	$\frac{1}{2}$
25	58	168	30	71	77	110	194	65	25	261	76	48	72	$\frac{3}{4}$
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 $\frac{1}{4}$
50	97	202	51	84	99	157	224	89	45	305	95	59	95	1 $\frac{1}{2}$
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 $\frac{1}{2}$
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-U F0 (Fail safe to open)

Without manual override

With solvent cement spigots metric

Model:

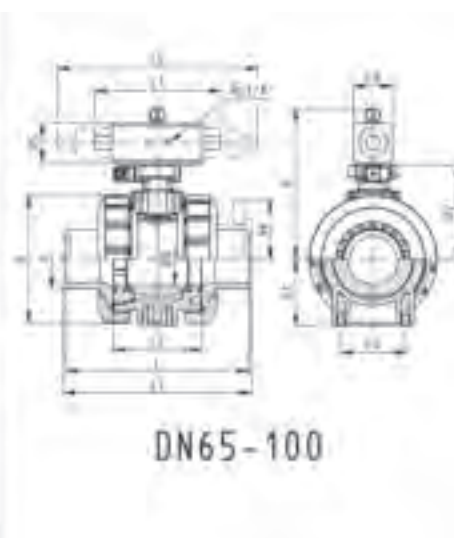
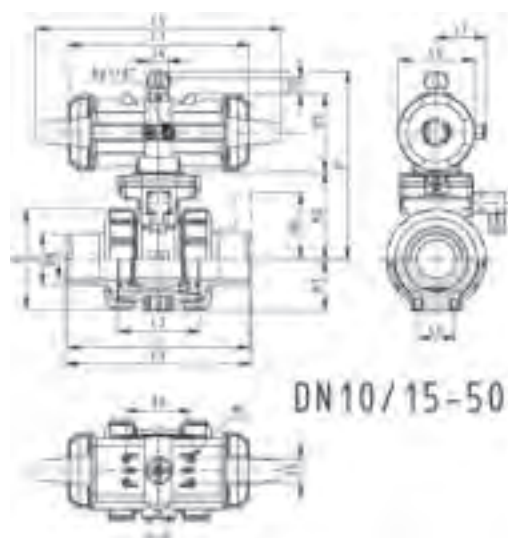
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 230 182	1.159	199 230 192	1.159
20	15	10	185	199 230 183	1.159	199 230 193	1.159
25	20	10	350	199 230 184	1.276	199 230 194	1.276
32	25	10	700	199 230 185	1.400	199 230 195	1.400
40	32	10	1000	199 230 186	2.451	199 230 196	2.451
50	40	10	1600	199 230 187	2.450	199 230 197	2.773
63	50	10	3100	199 230 188	3.233	199 230 198	3.631
75	65	10	5000	199 230 189	7.900	199 230 199	7.900
90	80	10	7000	199 230 190	10.400	199 230 200	10.400
110	100	10	11000	199 230 191	15.700	199 230 201	15.700

d	D	H	H1	H2	H5	L	L1	L2	L3	L4	L5	L6	L7	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	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





DN10/15 - 50



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

Without manual override

With threaded sockets Rp

Model:

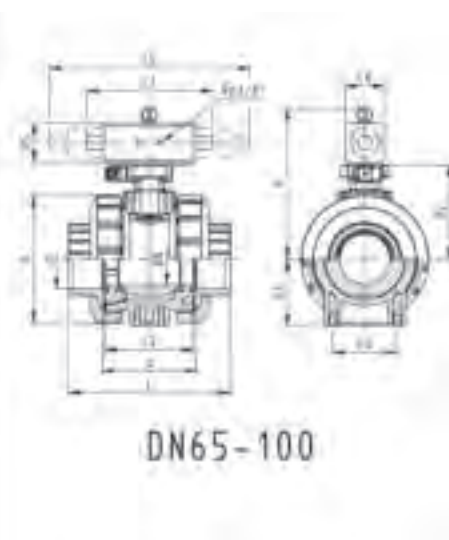
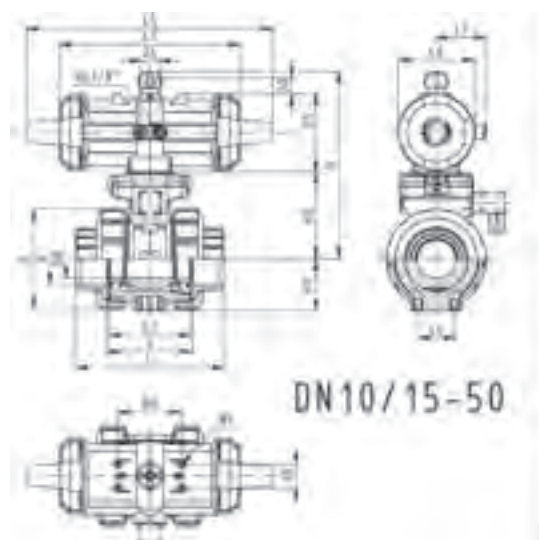
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	70	199 230 682	1.200	199 230 692	1.200
1/2	15	10	185	199 230 683	1.200	199 230 693	1.200
3/4	20	10	350	199 230 684	1.300	199 230 694	1.300
1	25	10	700	199 230 685	1.400	199 230 695	1.400
1 1/4	32	10	1000	199 230 686	2.500	199 230 696	2.500
1 1/2	40	10	1600	199 230 687	2.800	199 230 697	2.800
2	50	10	3100	199 230 688	3.700	199 230 698	3.700
2 1/2	65	10	5000	199 230 689	7.800	199 230 699	7.800
3	80	10	7000	199 230 690	10.300	199 230 700	10.300
4	100	10	11000	199 230 691	15.500	199 230 701	15.500

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





Ball valve type 230 PVC-U F0 (Fail safe to open)
Without manual override
With fixed flanges serrated metric

Model:

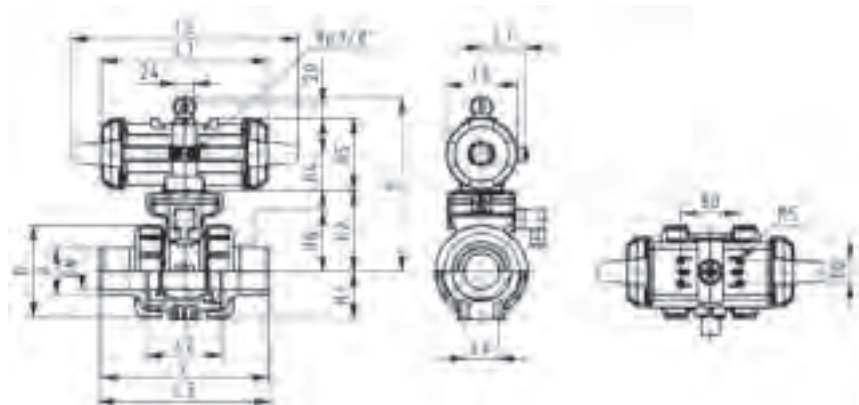
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	½	15	10	185	199 230 323	1.700	199 230 333	1.700
25	¾	20	10	350	199 230 324	1.900	199 230 334	1.900
32	1	25	10	700	199 230 325	2.100	199 230 335	2.100
40	1 ¼	32	10	1000	199 230 326	3.400	199 230 336	3.400
50	1 ½	40	10	1600	199 230 327	3.800	199 230 337	3.800
63	2	50	10	3100	199 230 328	4.900	199 230 338	4.900

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





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

Without manual override

With backing flanges PP-st metric

Model:

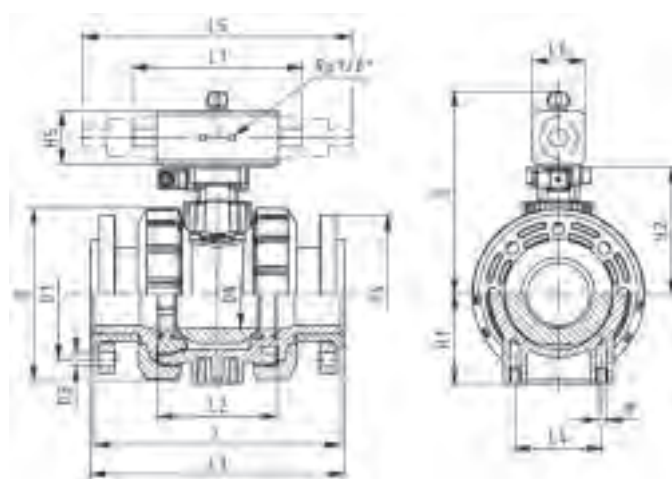
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 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	Weight (kg)	FPM Code	Weight (kg)
75	65	10	5000	199 234 489	11.900	199 234 499	11.900
90	80	10	7000	199 234 490	15.300	199 234 500	15.300
110	100	10	11000	199 234 491	22.300	199 234 501	22.300

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





DN10/15 - 50



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

Without manual override

With solvent cement sockets metric

Model:

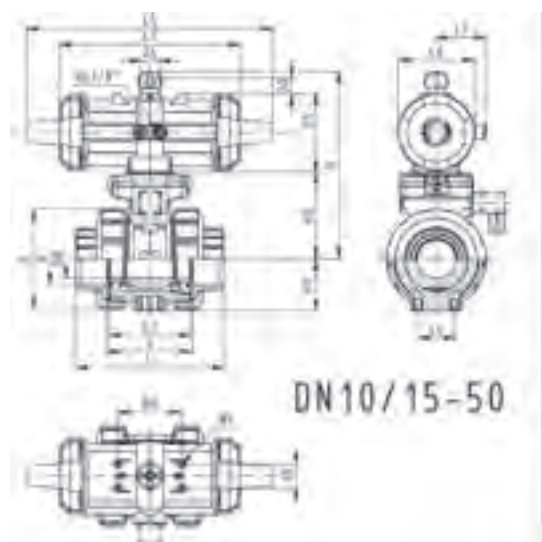
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

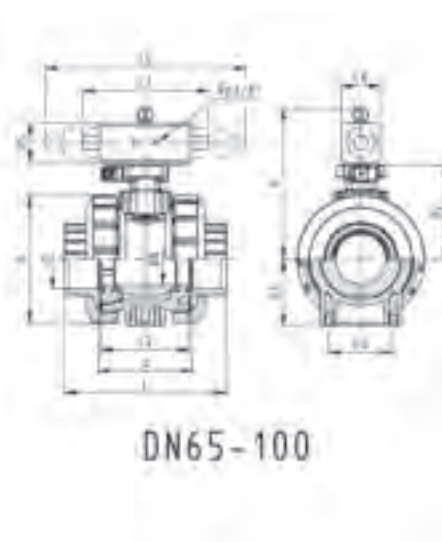
- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 230 202	0.805	199 230 212	1.159
20	15	10	185	199 230 203	0.807	199 230 213	1.159
25	20	10	350	199 230 204	0.902	199 230 214	1.276
32	25	10	700	199 230 205	1.400	199 230 215	1.400
40	32	10	1000	199 230 206	1.691	199 230 216	2.451
50	40	10	1600	199 230 207	1.919	199 230 217	2.773
63	50	10	3100	199 230 208	2.651	199 230 218	2.673
75	65	10	5000	199 230 209	6.600	199 230 219	6.600
90	80	10	7000	199 230 210	9.500	199 230 220	9.500
110	100	10	11000	199 230 211	13.700	199 230 221	13.700

d	D	H	H1	H2	H5	L	L1	L2	L4	L5	L6	L7	z	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	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	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-U DA (Double acting)

Without manual override

With solvent cement spigots metric

Model:

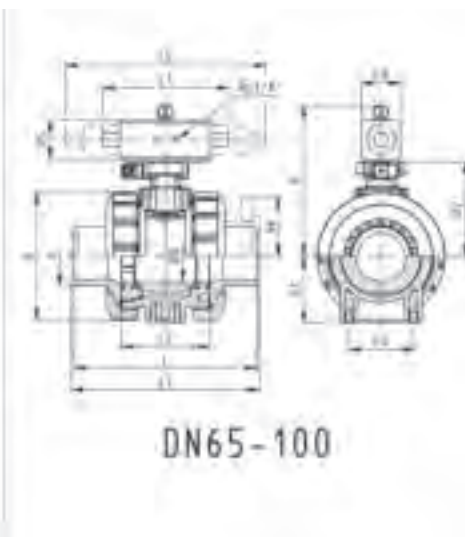
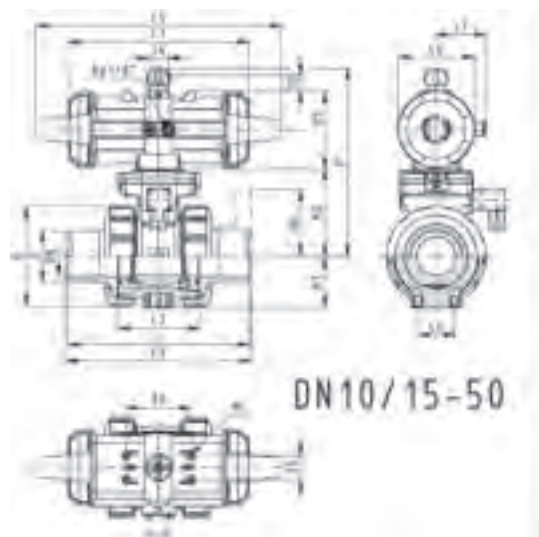
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	70	199 230 222	1.159	199 230 232	1.159
20	15	10	185	199 230 223	1.159	199 230 233	1.159
25	20	10	350	199 230 224	1.276	199 230 234	1.276
32	25	10	700	199 230 225	1.400	199 230 235	1.400
40	32	10	1000	199 230 226	2.451	199 230 236	2.451
50	40	10	1600	199 230 227	2.773	199 230 237	2.773
63	50	10	3100	199 230 228	3.631	199 230 238	3.631
75	65	10	5000	199 230 229	6.800	199 230 239	6.800
90	80	10	7000	199 230 230	9.700	199 230 240	9.700
110	100	10	11000	199 230 231	13.900	199 230 241	13.900

d	D	H	H1	H2	H5	L	L1	L2	L3	L4	L5	L6	L7	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	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	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





DN10/15 - 50



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

Without manual override

With threaded sockets Rp

Model:

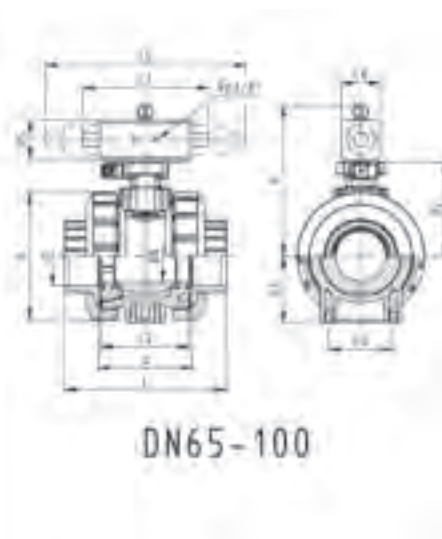
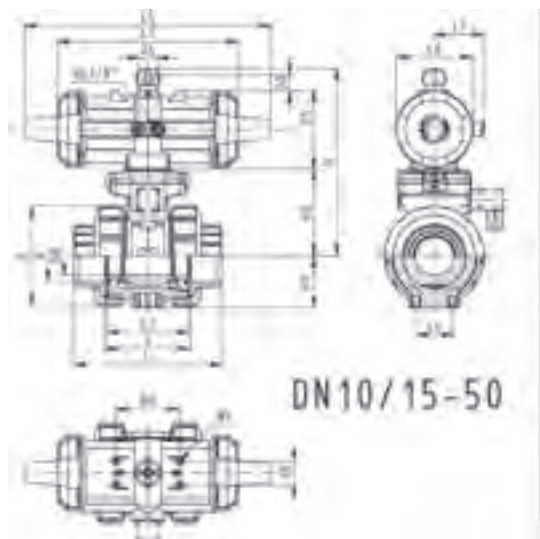
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Rp (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	70	199 230 712	1.200	199 230 732	1.200
1/2	15	10	185	199 230 713	1.200	199 230 733	1.200
3/4	20	10	350	199 230 714	1.300	199 230 734	1.300
1	25	10	700	199 230 715	1.400	199 230 735	1.400
1 1/4	32	10	1000	199 230 716	2.500	199 230 736	2.500
1 1/2	40	10	1600	199 230 717	2.800	199 230 737	2.800
2	50	10	3100	199 230 718	3.700	199 230 738	3.700
2 1/2	65	10	5000	199 230 719	6.700	199 230 739	6.700
3	80	10	7000	199 230 720	9.700	199 230 740	9.700
4	100	10	11000	199 230 721	13.700	199 230 741	13.700

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





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

Without manual override

With fixed flanges metric

Model:

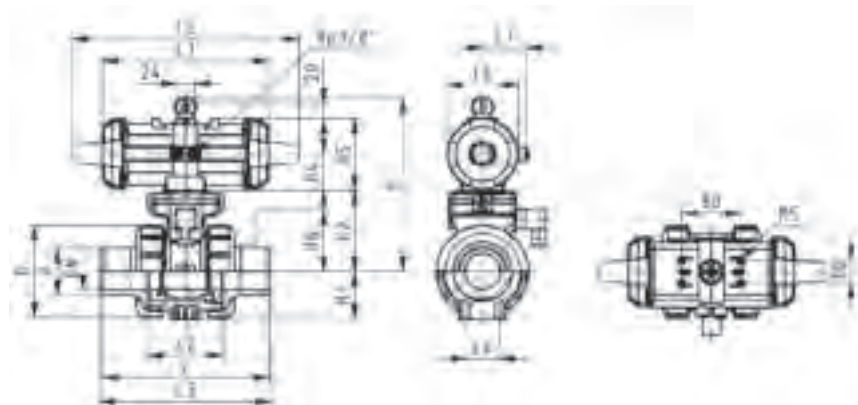
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504

Option:

- Individual configuration of the valve (see diagram)

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	½	15	10	185	199 230 343	1.700	199 230 353	1.700
25	¾	20	10	350	199 230 344	1.900	199 230 354	1.900
32	1	25	10	700	199 230 345	2.100	199 230 355	2.100
40	1 ¼	32	10	1000	199 230 346	3.400	199 230 356	3.400
50	1 ½	40	10	1600	199 230 347	3.800	199 230 357	3.800
63	2	50	10	3100	199 230 348	4.900	199 230 358	4.900

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





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

Without manual override

With backing flanges PP-st metric

Model:

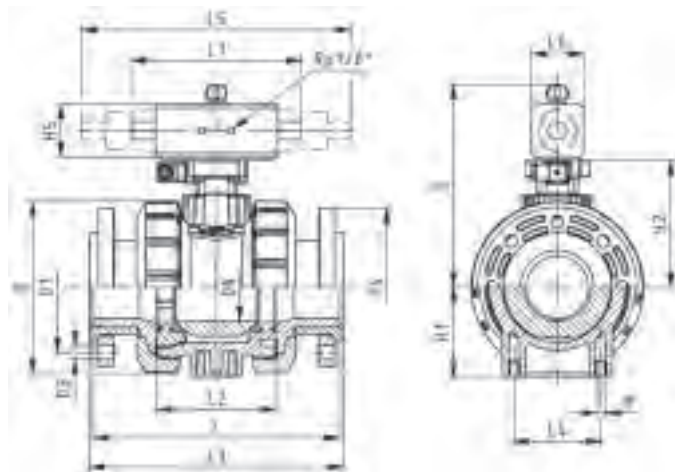
- Control time $90^\circ <$ 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, 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	Weight (kg)	FPM Code	Weight (kg)
75	65	10	5000	199 234 509	10.800	199 234 519	10.800
90	80	10	7000	199 234 510	14.600	199 234 520	14.600
110	100	10	11000	199 234 511	20.600	199 234 521	20.600

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



3-Way ball valves electric type 167



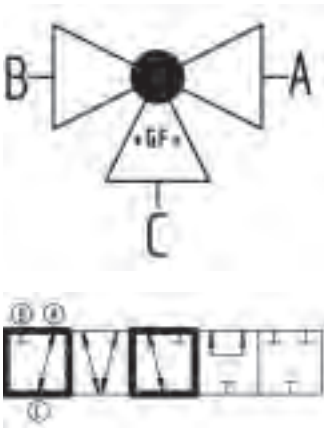
3-Way ball valve type 167 PVC-U
Horizontal/L-port 100-230V
With manual emergency override
With solvent cement sockets metric

Model:

- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

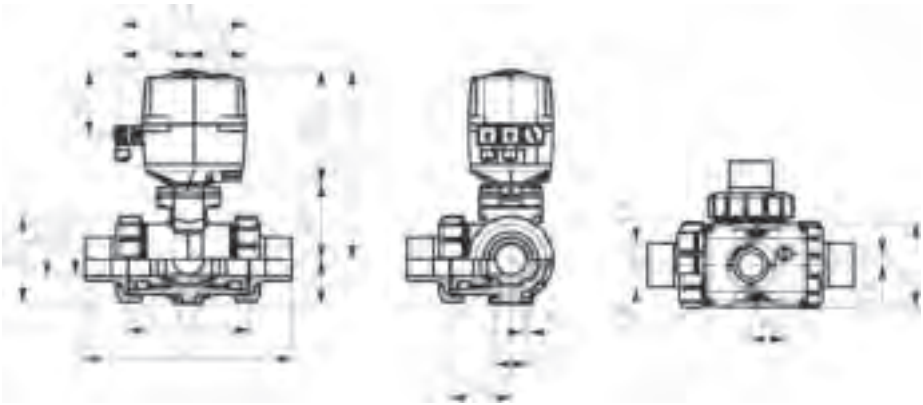
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

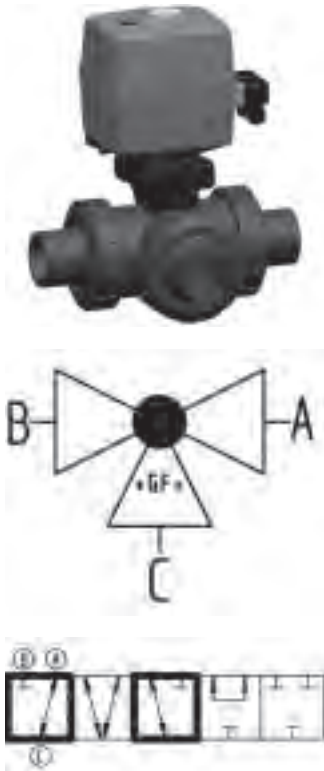


d	DN	PN	kv-value	EA	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	(Δp=1 bar)		Code	(kg)	Code	(kg)
			(l/min)					
16	10	10	50	EA25	199 167 022	2.122	199 167 032	2.122
20	15	10	75	EA25	199 167 023	2.540	199 167 033	2.128
25	20	10	150	EA25	199 167 024	2.256	199 167 034	2.256
32	25	10	280	EA25	199 167 025	2.842	199 167 035	2.446
40	32	10	480	EA25	199 167 026	3.234	199 167 036	2.870
50	40	10	620	EA25	199 167 027	3.683	199 167 037	3.322
63	50	10	1230	EA25	199 167 028	5.043	199 167 038	4.683

d	D	H	H1	H2	H3	H5	H6	L	L1	L2	L3	L4	L5	L6	L7
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	L8	M	z	z1	closest
(mm)	(mm)		(mm)	(mm)	inch
					(inch)
16	33	6	81	40	¾
20	33	6	81	40	¾
25	33	6	94	47	¾
32	33	6	107	54	1
40	33	8	130	65	1 ¼
50	33	8	143	72	1 ½
63	33	8	185	92	2





3-Way ball valve type 167 PVC-U
Horizontal/L-port 100-230V
With manual emergency override
With solvent cement spigots metric

Model:

- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

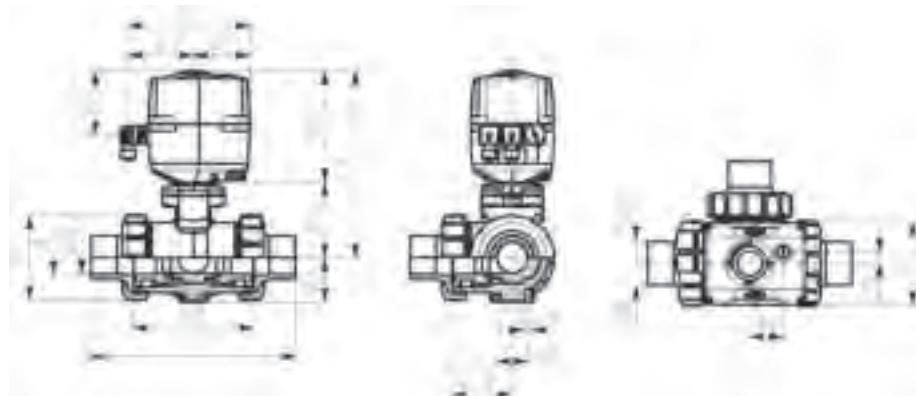
Option:

- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EA	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	10	50	EA25	199 167 002	2.128	199 167 012	2.128
20	15	10	75	EA25	199 167 003	2.137	199 167 013	2.137
25	20	10	150	EA25	199 167 004	2.271	199 167 014	2.271
32	25	10	280	EA25	199 167 005	2.470	199 167 015	2.470
40	32	10	480	EA25	199 167 006	2.891	199 167 016	2.891
50	40	10	620	EA25	199 167 007	3.749	199 167 017	3.385
63	50	10	1230	EA25	199 167 008	4.809	199 167 018	4.809

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

d (mm)	L8 (mm)	M	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





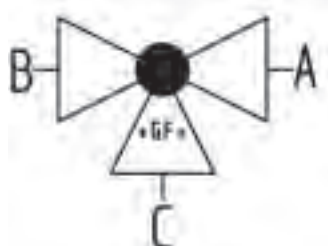
3-Way ball valve type 167 PVC-U
Horizontal/T-port 100-230V
With manual emergency override
With solvent cement sockets metric

Model:

- Voltage 100-230 V, 50-60 Hz
- Factory set 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
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

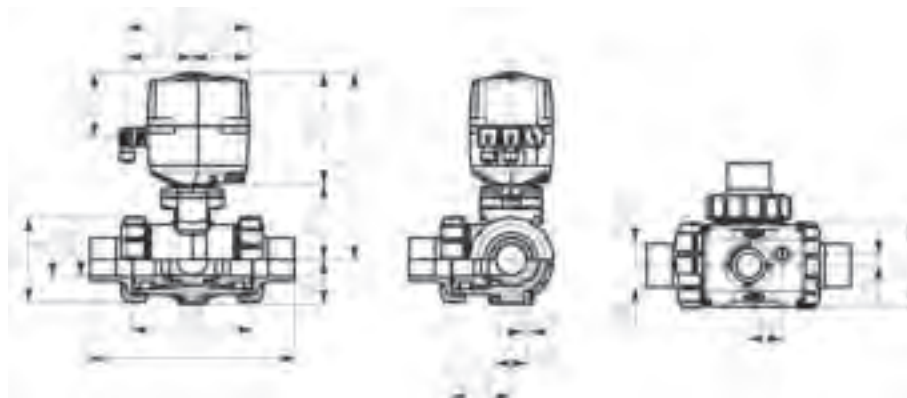
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

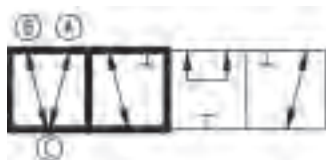
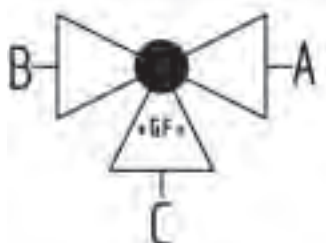


d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	10	140	EA25	199 167 062	2.121	199 167 072	2.121
20	15	10	200	EA25	199 167 063	2.127	199 167 073	2.127
25	20	10	470	EA25	199 167 064	2.254	199 167 074	2.254
32	25	10	793	EA25	199 167 065	2.834	199 167 075	2.846
40	32	10	1290	EA25	199 167 066	3.217	199 167 076	2.859
50	40	10	1910	EA25	199 167 067	3.674	199 167 077	3.301
63	50	10	3100	EA25	199 167 068	4.638	199 167 078	4.638

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	¾
20	33	6	81	40	½
25	33	6	94	47	¾
32	33	6	107	54	1
40	33	8	130	65	1 ½
50	33	8	143	72	1 ½
63	33	8	185	92	2





3-Way ball valve type 167 PVC-U
Horizontal/T-port 100-230V
With manual emergency override
With solvent cement sockets metric

Model:

- Voltage 100-230 V, 50-60 Hz
- Factory set 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
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

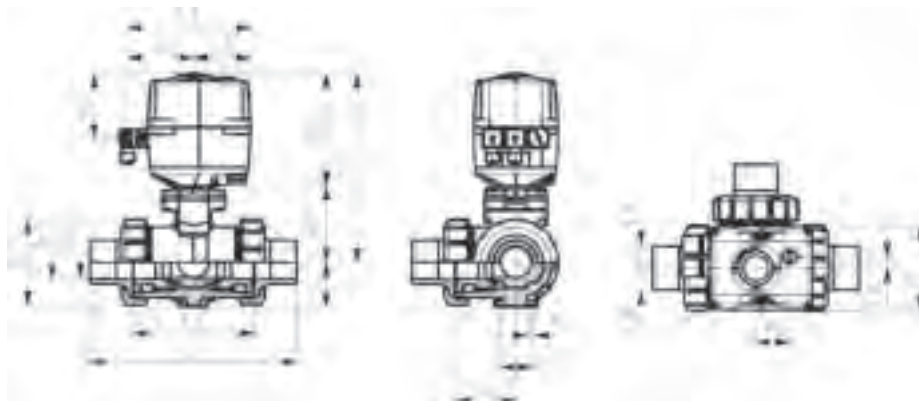
Option:

- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d	DN	PN	kv-value	EA	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
			(l/min)					
16	10	10	140	EA25	199 167 202	2.122	199 167 212	2.122
20	15	10	200	EA25	199 167 203	2.128	199 167 213	2.128
25	20	10	470	EA25	199 167 204	2.256	199 167 214	2.256
32	25	10	793	EA25	199 167 205	2.446	199 167 215	2.446
40	32	10	1290	EA25	199 167 206	2.870	199 167 216	2.870
50	40	10	1910	EA25	199 167 207	3.698	199 167 217	3.322
63	50	10	3100	EA25	199 167 208	5.018	199 167 218	4.683

d	D	H	H1	H2	H3	H5	H6	L	L1	L2	L3	L4	L5	L6	L7
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	L8	M	z	z1	closest
(mm)	(mm)		(mm)	(mm)	inch
					(inch)
16	33	6	81	40	3/8
20	33	6	81	40	1/2
25	33	6	94	47	3/4
32	33	6	107	54	1
40	33	8	130	65	1 1/4
50	33	8	143	72	1 1/2
63	33	8	185	92	2





3-Way ball valve type 167 PVC-U
Horizontal/T-port 24V
With manual emergency override
With solvent cement sockets metric

Model:

- Voltage 24 V AC/DC
- Factory set 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
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

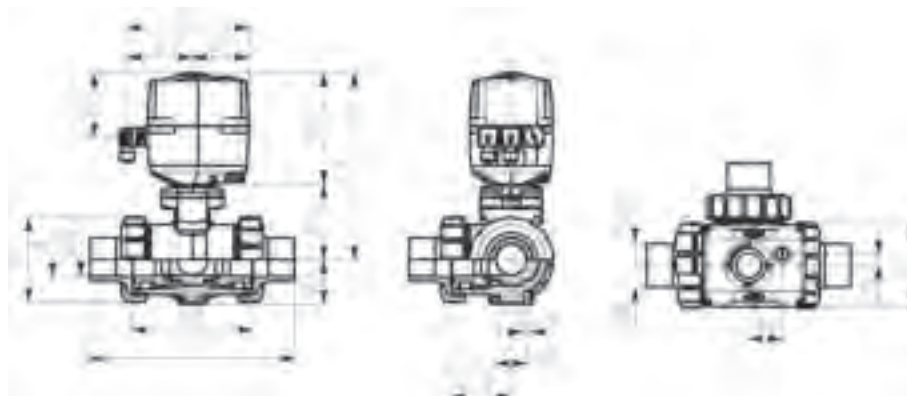
Option:

- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

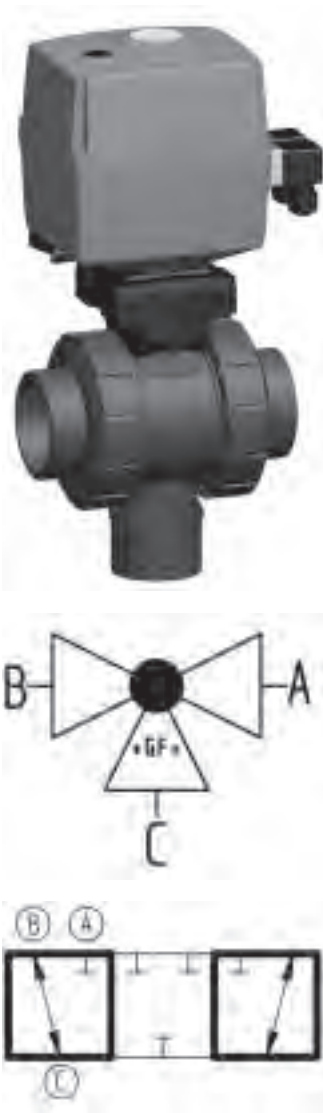
d	DN	PN	kv-value	EA	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
			(l/min)					
16	10	10	140	EA25	199 167 242	2.121	199 167 252	2.121
20	15	10	200	EA25	199 167 243	2.127	199 167 253	2.127
25	20	10	470	EA25	199 167 244	2.254	199 167 254	2.254
32	25	10	793	EA25	199 167 245	2.817	199 167 255	2.439
40	32	10	1290	EA25	199 167 246	3.197	199 167 256	2.859
50	40	10	1910	EA25	199 167 247	3.654	199 167 257	3.301
63	50	10	3100	EA25	199 167 248	4.972	199 167 258	4.638

d	D	H	H1	H2	H3	H5	H6	L	L1	L2	L3	L4	L5	L6	L7
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	L8	M	z	z1	closest
(mm)	(mm)		(mm)	(mm)	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



3-Way ball valves electric type 170



3-Way ball valve type 170 PVC-U
Vertical/L-port 100-230V
With manual emergency override
With solvent cement sockets metric

Model:

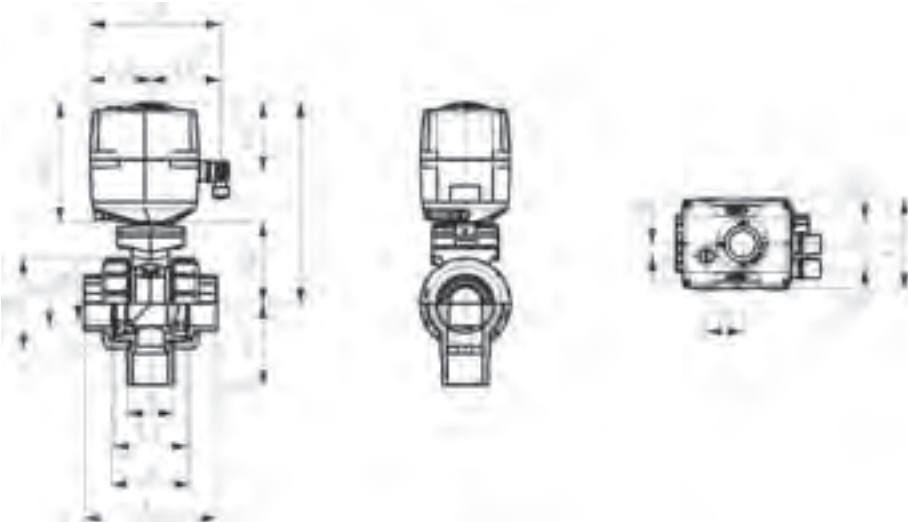
- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d	DN	PN	kv-value	EA	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
			(l/min)					
16	10	10	49	EA25	199 170 242	2.039	199 170 252	2.039
20	15	10	77	EA25	199 170 243	2.043	199 170 253	2.043
25	20	10	146	EA25	199 170 244	2.150	199 170 254	2.150
32	25	10	260	EA25	199 170 245	2.267	199 170 255	2.267
40	32	10	437	EA25	199 170 246	2.554	199 170 256	2.554
50	40	10	667	EA25	199 170 247	3.203	199 170 257	2.818
63	50	10	1293	EA25	199 170 248	3.977	199 170 258	3.595

d	D	H	H1	H2	H3	H5	L	L1	L2	L5	L6	L7	L8	z	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
															(inch)
16	50	231	62	64	94	167	92	180	56	97	83	122	33	64	3/8
20	50	231	62	64	94	167	95	180	56	97	83	122	33	64	1/2
25	58	240	72	73	94	167	111	180	66	97	83	122	33	74	3/4
32	68	240	77	73	94	167	123	180	71	97	83	122	33	79	1
40	84	251	87	84	94	167	146	180	85	97	83	122	33	95	1 1/4
50	97	251	97	84	94	167	157	180	89	97	83	122	33	95	1 1/2
63	124	273	112	106	94	167	183	180	101	97	83	122	33	107	2





3-Way ball valve type 170 PVC-U
Vertical/L-port 24V
With manual emergency override
With solvent cement sockets metric

Model:

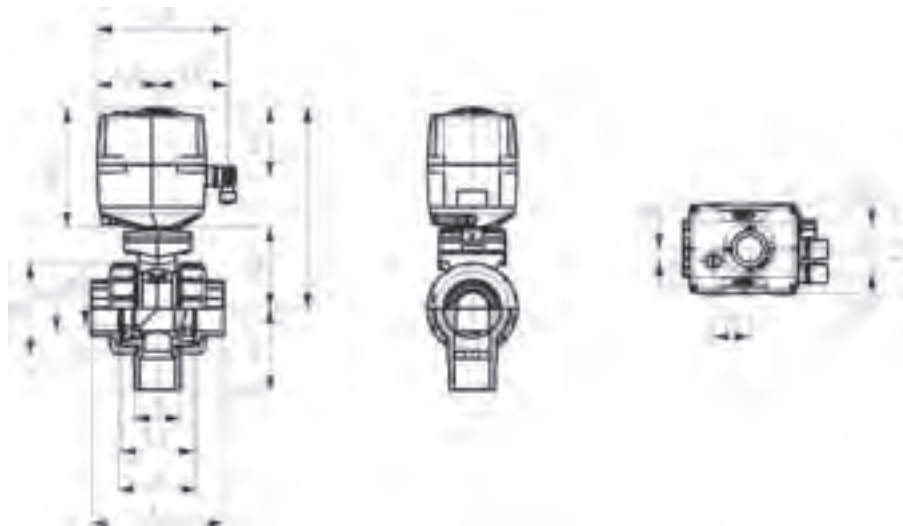
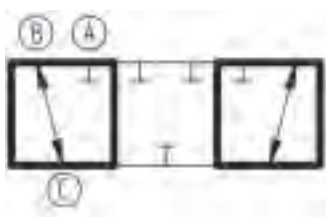
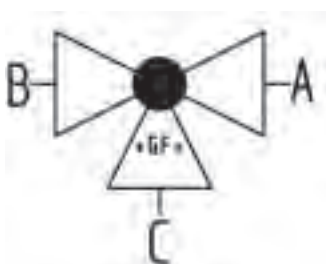
- Voltage 24 V AC/DC
- Factory set control range 90°<
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EA	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	10	49	EA25	199 170 262	2.039	199 170 272	2.039
20	15	10	77	EA25	199 170 263	2.043	199 170 273	2.043
25	20	10	146	EA25	199 170 264	2.546	199 170 274	2.150
32	25	10	260	EA25	199 170 265	2.267	199 170 275	2.267
40	32	10	437	EA25	199 170 266	2.922	199 170 276	2.554
50	40	10	667	EA25	199 170 267	2.818	199 170 277	2.818
63	50	10	1293	EA25	199 170 268	3.595	199 170 278	3.595

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)	closest inch (inch)
16	50	231	62	64	94	167	92	180	56	97	83	122	33	64	3/8
20	50	231	62	64	94	167	95	180	56	97	83	122	33	64	1/2
25	58	240	72	73	94	167	111	180	66	97	83	122	33	74	3/4
32	68	240	77	73	94	167	123	180	71	97	83	122	33	79	1
40	84	251	87	84	94	167	146	180	85	97	83	122	33	95	1 1/4
50	97	251	97	84	94	167	157	180	89	97	83	122	33	95	1 1/2
63	124	273	112	106	94	167	183	180	101	97	83	122	33	107	2



3-Way ball valves electric type 189



3-Way ball valve type 189 PVC-U
Vertical diverter ball 100-230
With solvent cement sockets metric

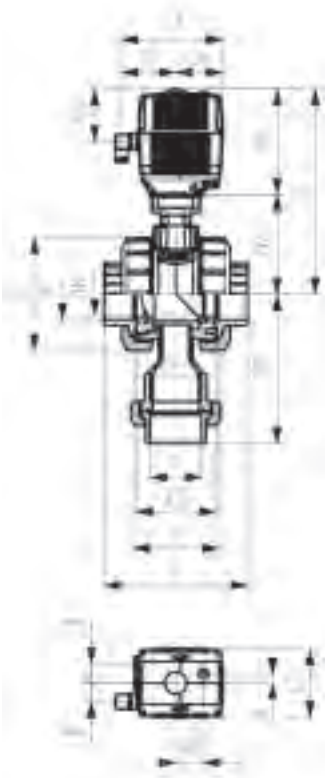
Model:

- Ball seals PTFE
- Voltage 100-230 V, 50-60 Hz for EA31
- Control time 15 s/90°<) EA31
- Special valve in general accordance to ISO 16135

Mode of action:

- For interconnection of two inputs

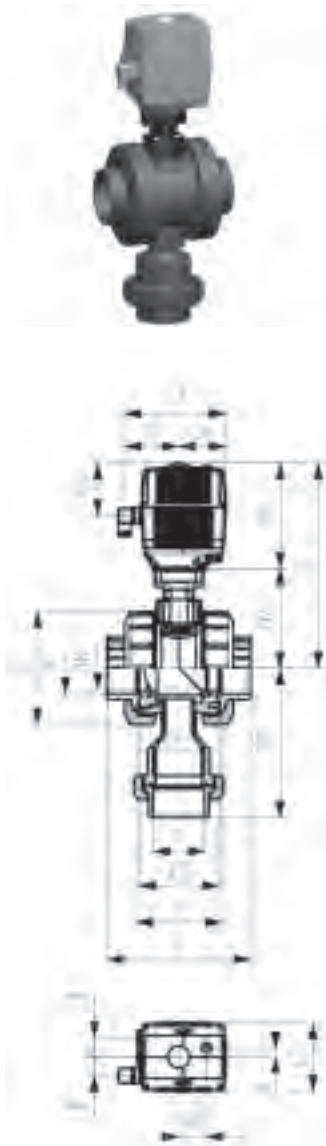
Individual configuration available on special request



d	DN	PN	EPDM	Weight	FPM
(mm)	(mm)	(bar)	Code	(kg)	Code
75	65	6	199 189 008	9.230	199 189 018
90	80	6	199 189 009	12.171	199 189 019
110	100	6	199 189 010	15.985	199 189 020

d	D	H	H1	H2	H3	H5	L	L1	L2	L3	L5	L6	L7	L8	z
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
75	166	346	226	156	94	190	233	180	136	64	98	82	122	33	144
90	200	358	264	168	94	190	254	180	141	64	98	82	122	33	151
110	238	365	289	175	94	190	301	180	164	64	98	82	122	33	174

d	closest inch
(mm)	(inch)
75	2 ½
90	3
110	4



3-Way ball valve type 189 PVC-U
Vertical diverter ball 24V
With solvent cement sockets metric

Model:

- Ball seals PTFE
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Special valve in general accordance to ISO 16135

Mode of action:

- For interconnection of two inputs

Individual configuration available on special request

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FPM Code
75	95	6	199 189 068	9.230	199 189 078
90	80	6	199 189 069	12.171	199 189 079
110	100	6	199 189 070	15.985	199 189 080

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)
75	166	346	226	156	94	190	233	180	136	64	98	82	122	33	144
90	200	358	264	168	94	190	254	180	141	64	98	82	122	33	151
110	238	365	289	175	94	190	301	180	164	64	98	82	122	33	174

d (mm)	closest inch (inch)
75	2 ½
90	3
110	4

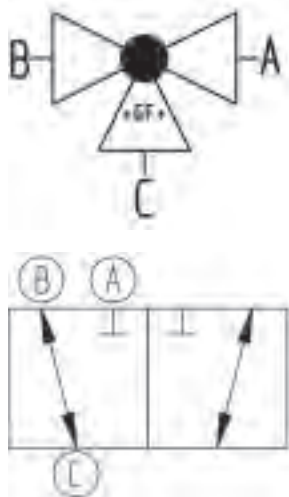
3-Way ball valves pneumatic type 285



3-Way ball valve type 285 PVC-U
Horizontal/L-port FC (Fail safe to close)
Without manual override
With solvent cement sockets metric

Model:

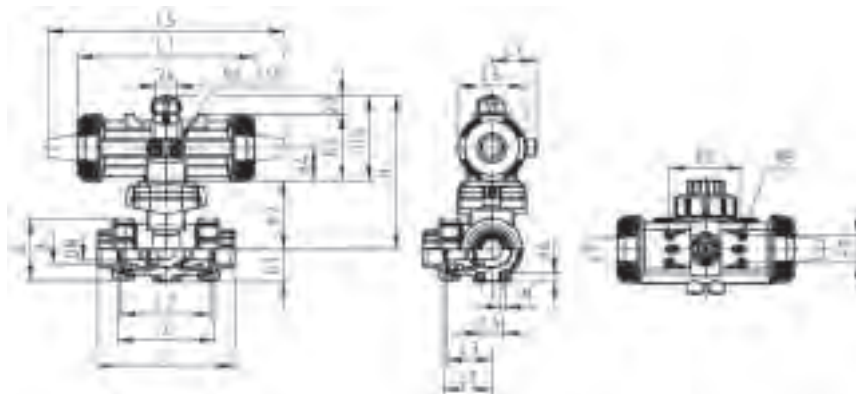
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	10	50	199 285 022	1.115	199 285 032	1.115
20	15	10	75	199 285 023	1.121	199 285 033	1.121
25	20	10	150	199 285 024	1.227	199 285 034	1.228
32	25	10	280	199 285 025	1.439	199 285 035	1.413
40	32	10	480	199 285 026	2.539	199 285 036	2.539
50	40	10	620	199 285 027	3.592	199 285 037	2.991
63	50	10	1230	199 285 028	4.298	199 285 038	4.352

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	$\frac{3}{8}$
20	48	6	81	40	$\frac{1}{2}$
25	48	6	94	47	$\frac{3}{4}$
32	48	6	107	54	1
40	59	8	130	65	1 $\frac{1}{4}$
50	59	8	143	72	1 $\frac{1}{2}$
63	59	8	185	92	2

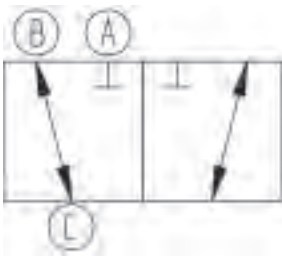
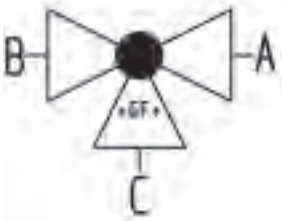




3-Way ball valve type 285 PVC-U
Horizontal/L-port FC (Fail safe to close)
Without manual override
With solvent cement spigots metric

Model:

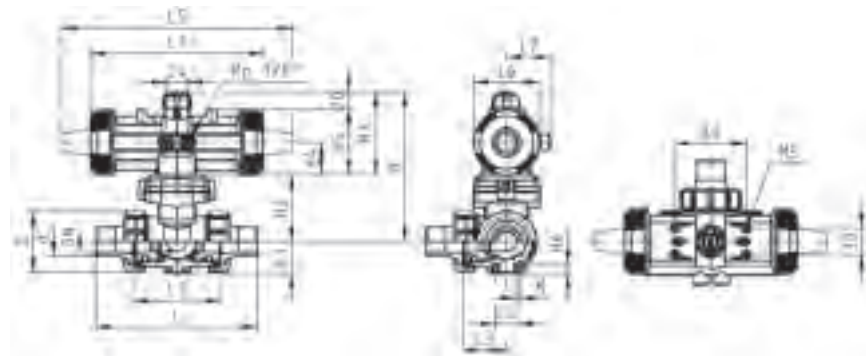
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	50	199 285 002	1.121	199 285 012	1.121
20	15	10	75	199 285 003	1.130	199 285 013	1.130
25	20	10	150	199 285 004	1.241	199 285 014	1.264
32	25	10	280	199 285 005	1.463	199 285 015	1.436
40	32	10	480	199 285 006	2.560	199 285 016	2.560
50	40	10	620	199 285 007	3.054	199 285 017	3.054
63	50	10	1230	199 285 008	4.478	199 285 018	4.451

d	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L5	L6
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
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	L7	M	closest
(mm)	(mm)		inch
			(inch)
16	48	6	$\frac{3}{8}$
20	48	6	$\frac{1}{2}$
25	48	6	$\frac{3}{4}$
32	48	6	1
40	59	8	1 $\frac{1}{4}$
50	59	8	1 $\frac{1}{2}$
63	59	8	2

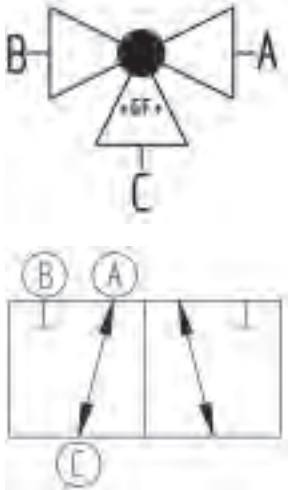




3-Way ball valve type 285 PVC-U
Horizontal/L-port DA (Double acting)
Without manual override
With solvent cement sockets metric

Model:

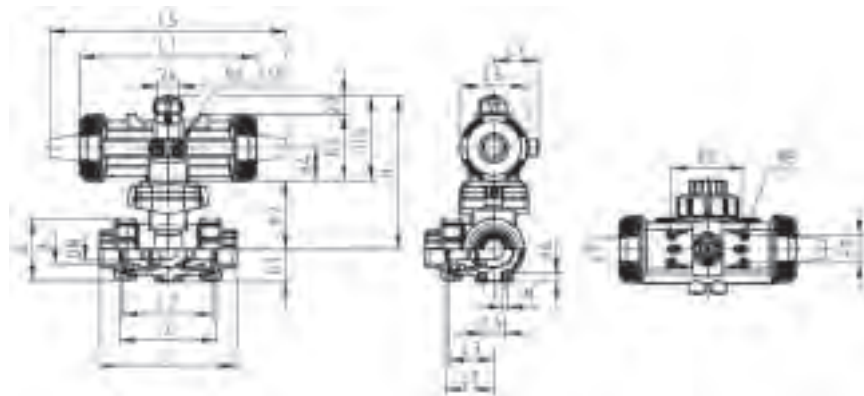
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	10	50	199 285 202	0.925	199 285 212	0.925
20	15	10	75	199 285 203	0.931	199 285 213	0.885
25	20	10	150	199 285 204	1.059	199 285 214	1.059
32	25	10	280	199 285 205	1.183	199 285 215	1.249
40	32	10	480	199 285 206	2.115	199 285 216	2.115
50	40	10	620	199 285 207	2.452	199 285 217	2.463
63	50	10	1230	199 285 208	3.806	199 285 218	3.828

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

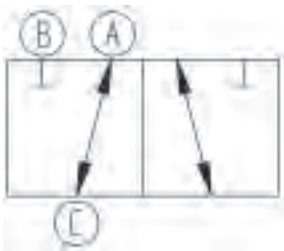
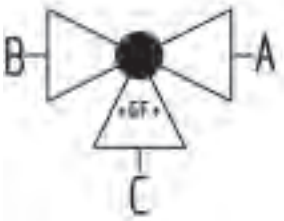




3-Way ball valve type 285 PVC-U
Horizontal/L-port DA (Double acting)
Without manual override
With solvent cement spigots metric

Model:

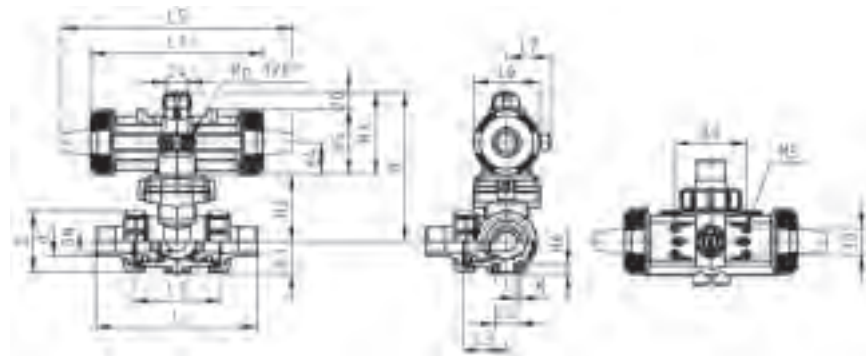
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	50	199 285 182	0.931	199 285 192	0.931
20	15	10	75	199 285 183	0.940	199 285 193	0.940
25	20	10	150	199 285 184	1.074	199 285 194	1.074
32	25	10	280	199 285 185	1.273	199 285 195	1.273
40	32	10	480	199 285 186	2.136	199 285 196	2.136
50	40	10	620	199 285 187	2.630	199 285 197	2.630
63	50	10	1230	199 285 188	4.054	199 285 198	4.054

d	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L5	L6
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
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	L7	M	closest
(mm)	(mm)		inch
			(inch)
16	48	6	$\frac{3}{8}$
20	48	6	$\frac{1}{2}$
25	48	6	$\frac{3}{4}$
32	48	6	1
40	59	8	1 $\frac{1}{4}$
50	59	8	1 $\frac{1}{2}$
63	59	8	2

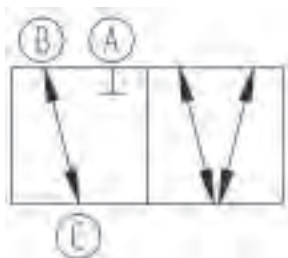
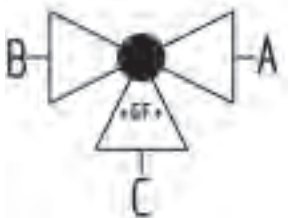




3-Way ball valve type 285 PVC-U
Horizontal/T-port FC (Fail safe to close)
Without manual override
With solvent cement sockets metric

Model:

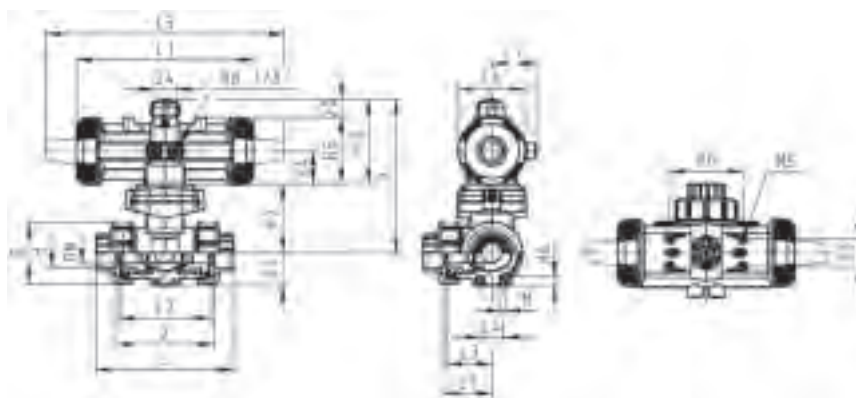
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	140	199 285 062	1.114	199 285 072	1.114
20	15	10	200	199 285 063	1.120	199 285 073	1.120
25	20	10	470	199 285 064	1.247	199 285 074	1.247
32	25	10	793	199 285 065	1.404	199 285 075	1.432
40	32	10	1290	199 285 066	2.481	199 285 076	2.528
50	40	10	1910	199 285 067	2.970	199 285 077	2.970
63	50	10	3100	199 285 068	4.263	199 285 078	4.314

d	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L5	L6
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
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	L7	M	z	z1	closest
(mm)	(mm)		(mm)	(mm)	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

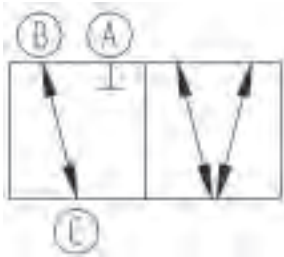
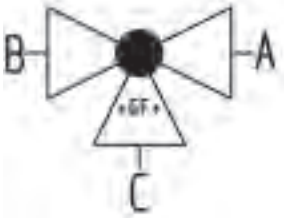




3-Way ball valve type 285 PVC-U
Horizontal/T-port FC (Fail safe to close)
Without manual override
With solvent cement spigots metric

Model:

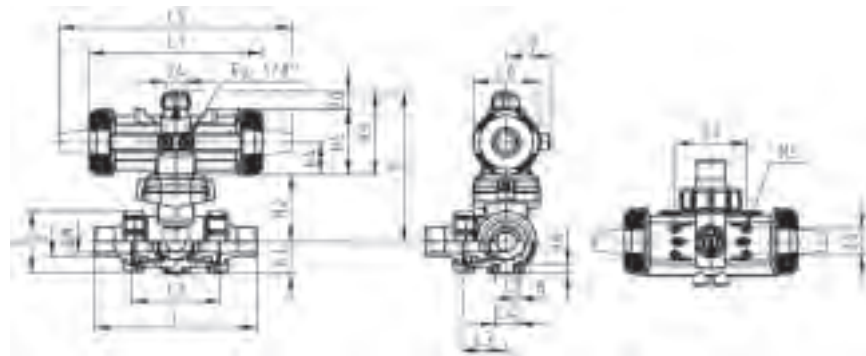
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

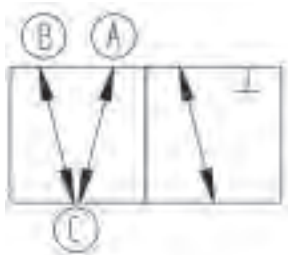
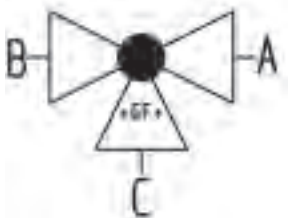


d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	140	199 285 042	1.120	199 285 052	1.120
20	15	10	200	199 285 043	1.129	199 285 053	1.129
25	20	10	470	199 285 044	1.262	199 285 054	1.262
32	25	10	793	199 285 045	1.456	199 285 055	1.456
40	32	10	1290	199 285 046	2.549	199 285 056	2.549
50	40	10	1910	199 285 047	3.033	199 285 057	3.033
63	50	10	3100	199 285 048	4.433	199 285 058	4.433

d	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L5	L6
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
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	L7	M	closest
(mm)	(mm)		inch
			(inch)
16	48	6	$\frac{3}{8}$
20	48	6	$\frac{1}{2}$
25	48	6	$\frac{3}{4}$
32	48	6	1
40	59	8	1 $\frac{1}{4}$
50	59	8	1 $\frac{1}{2}$
63	59	8	2





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

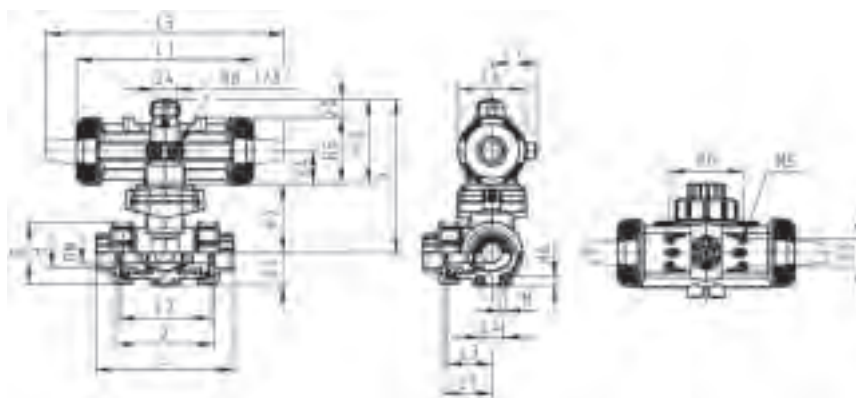
Model:

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

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	140	199 285 242	0.924	199 285 252	0.924
20	15	10	200	199 285 243	0.930	199 285 253	0.930
25	20	10	470	199 285 244	1.057	199 285 254	1.057
32	25	10	793	199 285 245	1.242	199 285 255	1.242
40	32	10	1290	199 285 246	2.104	199 285 256	2.104
50	40	10	1910	199 285 247	2.546	199 285 257	2.546
63	50	10	3100	199 285 248	3.883	199 285 258	3.883

d	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L5	L6
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
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	L7	M	z	z1	closest
(mm)	(mm)		(mm)	(mm)	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

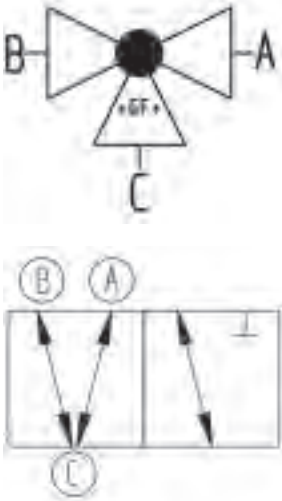




3-Way ball valve type 285 PVC-U
Horizontal/T-port DA (Double acting)
Without manual override
With solvent cement spigots metric

Model:

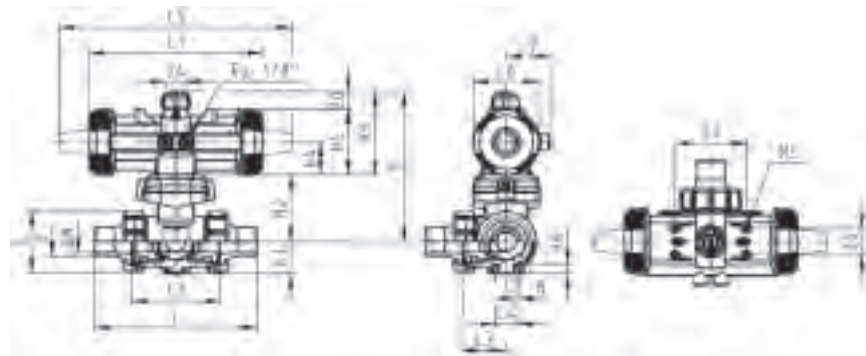
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	10	140	199 285 222	0.930	199 285 232	0.930
20	15	10	200	199 285 223	0.939	199 285 233	0.939
25	20	10	470	199 285 224	1.072	199 285 234	1.072
32	25	10	793	199 285 225	1.266	199 285 235	1.266
40	32	10	1290	199 285 226	2.125	199 285 236	2.125
50	40	10	1910	199 285 227	2.609	199 285 237	2.609
63	50	10	3100	199 285 228	4.009	199 285 238	4.009

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 (mm)	closest inch (inch)
16	48	6	$\frac{3}{8}$
20	48	6	$\frac{1}{2}$
25	48	6	$\frac{3}{4}$
32	48	6	1
40	59	8	1 $\frac{1}{4}$
50	59	8	1 $\frac{1}{2}$
63	59	8	2



Diaphragm valves pneumatic

Diaphragm valves pneumatic type 604 / 605



Diaphragm valve type 604 PVC-U
Unions with solvent cement socket metric

Model:

- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve (see diagram)



Actuator	d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	FPM Code	Weight (kg)	PTFE/EPDM Code
FC	20	15	6	125	161 604 012	161 604 062	0.40	161 604 032
FO	20	15	6	125	161 604 014	161 604 064	0.37	161 604 034
DA	20	15	6	125	161 604 015	161 604 065	0.35	161 604 035

Actuator	D (mm)	D1_G (inch)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
FC	65	¼	43	89	14	12	46	30	42	128	25	M6	96	6
FO	65	¼	43	89	14	12	46	30	42	128	25	M6	96	6
DA	65	¼	43	89	14	12	46	30	42	128	25	M6	96	6



Diaphragm valve type 605 PVC-U
Cement spigot metric

Model:

- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve (see diagram)



Actuator	d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	FPM Code	Weight (kg)	PTFE/EPDM Code
FC	20	15	6	125	161 605 012	161 605 062	0.34	161 605 032
FO	20	15	6	125	161 605 014	161 605 064	0.31	161 605 034
DA	20	15	6	125	161 605 015	161 605 065	0.29	161 605 035

Actuator	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
FC	65	¼	89	14	12	46	30	42	124	25	M6	6
FO	65	¼	89	14	12	46	30	42	124	25	M6	6
DA	65	¼	89	14	12	46	30	42	124	25	M6	6



Diaphragm valve type 604 PVC-U Unions with threaded socket Rp

Model:

- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve (see diagram)



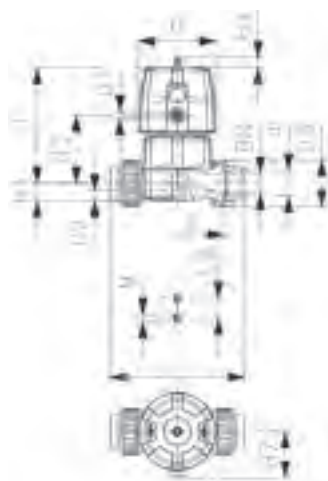
Actuator	d (mm)	Rp (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FPM Code	Weight (kg)
FC	20	½	15	6	125	161 604 412	161 604 462	0.40
FO	20	½	15	6	125	161 604 414	161 604 464	0.37
DA	20	½	15	6	125	161 604 415	161 604 465	0.35

Actuator PTFE/EPDM Code

FC	161 604 432
FO	161 604 434
DA	161 604 435

Actuator	D (mm)	D1_G (inch)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
FC	65	¼	43	89	14	12	46	30	42	128	25	M6	102	6
FO	65	¼	43	89	14	12	46	30	42	128	25	M6	102	6
DA	65	¼	43	89	14	12	46	30	42	128	25	M6	102	6

DIASTAR Six



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

Model:

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

Option:

- Individual configuration of the valve (see diagram)

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	6	125	161 614 011	0.532		
20	15	6	125	161 614 012	0.566	800 047 327	0.519
25	20	6	271	161 614 013	1.009	800 047 328	1.760
32	25	6	481	161 614 014	1.246	800 047 329	1.259
40	32	6	759	161 614 015	2.112	800 047 330	3.760
50	40	6	960	161 614 016	2.618	800 047 331	2.782
63	50	6	1181	161 614 017	3.553	800 047 332	7.800

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)
16	68	1/4	101	14	12	60	43	170	25	M6	142	7	3/8
20	68	1/4	101	14	12	60	43	128	25	M6	96	7	1/2
25	96	1/4	132	18	12	73	57	152	25	M6	114	10	3/4
32	96	1/4	143	22	12	84	57	166	25	M6	122	13	1
40	120	1/4	173	26	15	99	69	192	45	M8	140	14	1 1/4
50	120	1/4	193	32	15	119	69	222	45	M8	160	16	1 1/2
63	120	1/4	205	39	15	132	69	266	45	M8	190	16	2



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

Model:

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

Option:

- Individual configuration of the valve (see diagram)

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
20	15	6	125	161 615 012	0.503
25	20	6	271	161 615 013	0.964
32	25	6	481	161 615 014	1.137
40	32	6	759	161 615 015	2.414
50	40	6	960	161 615 016	2.482
63	50	6	1181	161 615 017	3.340

table continued on the next page



d	D	D1_G	H	H1	H2	H3	H7	L	L2	M	Lift = Hx	closest inch
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(inch)
20	68	⅜	101	14	12	60	43	124	25	M6	7	⅜
25	96	⅜	132	18	12	73	57	144	25	M6	10	⅜
32	96	⅜	143	22	12	84	57	154	25	M6	13	1
40	120	⅜	173	26	15	99	69	174	45	M8	14	1 ¼
50	120	⅜	193	32	15	119	69	194	45	M8	16	1 ½
63	120	⅜	205	39	15	132	69	224	45	M8	16	2



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

Model:

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

Option:

- Individual configuration of the valve (see diagram)



Rp	DN	PN	kv-value	EPDM	Weight
(inch)	(mm)	(bar)	(Δp=1 bar) (L/min)	Code	(kg)
½	15	6	125	161 614 412	0.568
¾	20	6	271	161 614 413	1.008
1	25	6	481	161 614 414	1.277
1 ¼	32	6	759	161 614 415	2.068
1 ½	40	6	960	161 614 416	2.678
2	50	6	1181	161 614 417	3.826

Rp	D	D1_G	H	H1	H2	H3	H7	L	L2	M	z	Lift = Hx
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	68	⅜	101	14	12	60	43	128	25	M6	96	7
¾	96	⅜	132	18	12	73	57	152	25	M6	114	10
1	96	⅜	143	22	12	84	57	166	25	M6	122	13
1 ¼	120	⅜	173	26	15	99	69	192	45	M8	140	14
1 ½	120	⅜	193	32	15	119	69	222	45	M8	160	16
2	120	⅜	205	39	15	132	69	266	45	M8	190	16



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

Model:

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

Option:

- Individual configuration of the valve (see diagram)

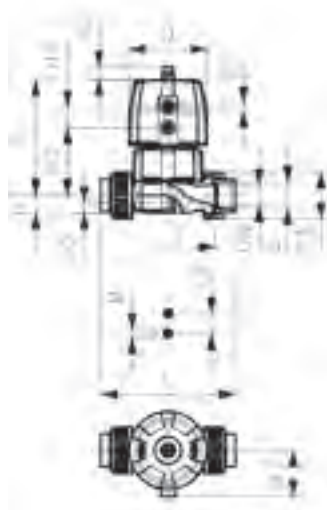


d	DN	PN	kv-value	EPDM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
20	15	6	125	161 617 012	0.661
25	20	6	271	161 617 013	1.180
32	25	6	481	161 617 014	1.456
40	32	6	759	161 617 015	1.991
50	40	6	960	161 617 016	3.018
63	50	6	1181	161 617 017	4.159

d	D	D1_G	D3	D4	D5	H	H1	H2	H3	H7	L	L2	M	Lift = Hx
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
20	68	1/4	95	65	14	101	14	12	60	43	130	25	M6	7
25	96	1/4	105	75	14	132	18	12	73	57	150	25	M6	10
32	96	1/4	115	85	14	143	22	12	84	57	160	25	M6	13
40	120	1/4	140	100	18	173	26	15	99	69	180	45	M8	14
50	120	1/4	150	110	18	193	32	15	119	69	200	45	M8	16
63	120	1/4	165	125	18	205	39	15	132	69	230	45	M8	16

d	closest
(mm)	inch
	(inch)
20	1/2
25	3/4
32	1
40	1 1/4
50	1 1/2
63	2

DIASTAR Ten



Diaphragm valve DIASTAR Ten PVC-U

FC (Fail safe to close)

Unions with solvent cement sockets metric

Model:

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

Option:

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

* PN: PTFE

Working Pressure: **one side**

d (mm)	DN (mm)	PN (psi)	PN* (bar)	kv-value (Δp=1 bar) (L/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	150	10/10*	125	161 624 011	0.567	161 624 061	0.592
20	15	150	10/10*	125	161 624 012	0.592	161 624 062	0.592
25	20	150	10/10*	271	161 624 013	1.104	161 624 063	1.121
32	25	150	10/10*	481	161 624 014	1.337	161 624 064	1.347
40	32	150	10/10*	759	161 624 015	2.358	161 624 065	2.216
50	40	150	10/10*	1263	161 624 016	3.928	161 624 066	3.804
63	50	150/90*	10/6*	1728	161 624 017	5.524	161 624 067	4.683

d (mm)	PTFE/EPDM Code	Weight (kg)	PTFE/FPM Code	Weight (kg)
16	161 624 031	0.573		
20	161 624 032	0.602	161 624 052	0.602
25	161 624 033	1.111	161 624 053	1.111
32	161 624 034	1.352	161 624 054	1.352
40	161 624 035	2.236	161 624 055	2.236
50	161 624 036	3.958	161 624 056	3.958
63	161 624 037	4.643	161 624 057	4.643

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 (mm)	z (mm)	Lift = Hx (mm)
16	68	⅝	101	14	12	60	24	16	43	170	25	M6	142	7
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)
16	⅝
20	⅜
25	⅝
32	1
40	1 ¼
50	1 ½
63	2



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

Model:

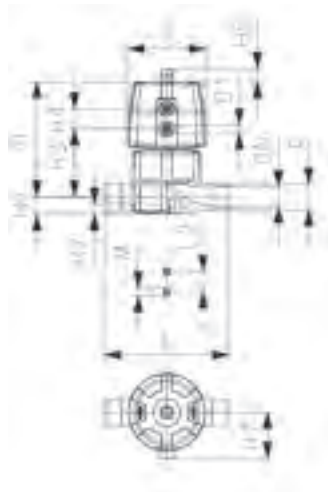
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

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

* PN: PTFE

Working Pressure: **one side**



d	DN	PN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(mm)	(mm)	(psi)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(L/min)				
20	15	150	10/10*	125	161 625 012	0.497	161 625 032	0.539
25	20	150	10/10*	271	161 625 013	1.029	161 625 033	1.050
32	25	150	10/10*	481	161 625 014	1.223	161 625 034	1.238
40	32	150	10/10*	759	161 625 015	2.026	161 625 035	2.114
50	40	150	10/10*	1263	161 625 016	3.550	161 625 036	3.580
63	50	150/90*	10/6*	1728	161 625 017	4.368	161 625 037	4.412

d	D	D1_G	H	H1	H2	H3	H4	H5	H7	L	L2	M	Lift =	closest
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		Hx	inch
													(mm)	(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



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

Model:

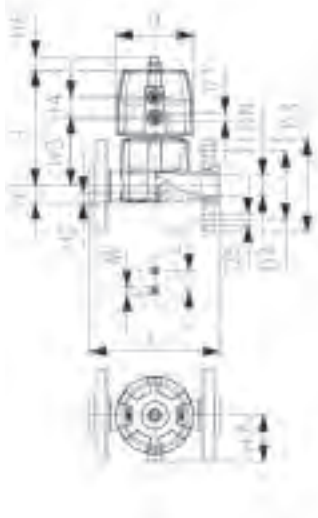
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

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

* PN: PTFE

Working Pressure: **one side**



d	DN	PN	PN*	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(psi)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	150	10/10*	125	161 627 012	0.657	161 627 062	0.687
25	20	150	10/10*	271	161 627 013	1.240	161 627 063	1.255
32	25	150	10/10*	481	161 627 014	1.549	161 627 064	1.530
40	32	150	10/10*	759	161 627 015	2.570	161 627 065	2.141
50	40	150	10/10*	1263	161 627 016	4.277	161 627 066	4.156
63	50	150/90*	10/6*	1728	161 627 017	5.188	161 627 067	5.087

d	PTFE/EPDM	Weight	PTFE/FPM	Weight
(mm)	Code	(kg)	Code	(kg)
20	161 627 032	0.654	161 627 052	0.654
25	161 627 033	1.246	161 627 053	1.246
32	161 627 034	1.562	161 627 054	1.562
40	161 627 035	2.161	161 627 055	2.161
50	161 627 036	4.302	161 627 056	4.302
63	161 627 037	5.115	161 627 057	5.115

d	D	D1_G	D3	D4	D5	H	H1	H2	H3	H4	H5	H7	L	L2	M
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
20	68	⅜	95	65	14	101	14	12	60	24	16	43	130	25	M6
25	96	⅜	105	75	14	132	18	12	73	25	16	57	150	25	M6
32	96	⅜	115	85	14	143	22	12	84	25	16	57	160	25	M6
40	120	⅜	140	100	18	173	26	15	99	26	26	69	180	45	M8
50	150	⅜	150	110	18	193	32	15	119	36	26	88	200	45	M8
63	150	⅜	165	125	18	205	39	15	132	36	26	88	230	45	M8

d	Lift =	closest
(mm)	Hx	inch
	(mm)	(inch)
20	7	⅜
25	10	⅜
32	13	1
40	15	1 ¼
50	19	1 ½
63	23	2



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

Model:

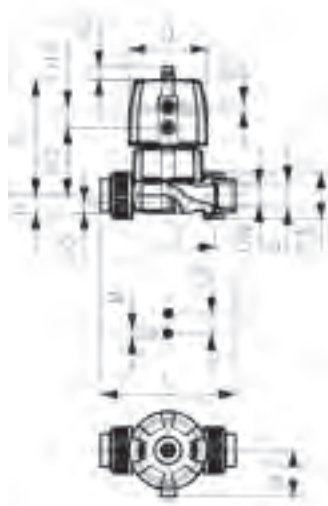
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

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

* PN: PTFE

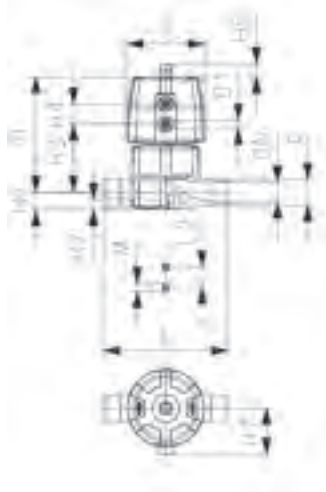
Working Pressure: **one side**



d (mm)	DN (mm)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
16	10	10/10*	125	161 644 011	0.542	161 644 031	0.552
20	15	10/10*	125	161 644 012	0.542	161 644 032	0.506
25	20	10/10*	271	161 644 013	1.308	161 644 033	0.958
32	25	10/10*	481	161 644 014	1.198	161 644 034	1.154
40	32	10/10*	759	161 644 015	1.935	161 644 035	1.876
50	40	10/10*	1263	161 644 016	3.271	161 644 036	3.316
63	50	10/10*	1728	161 644 017	4.765	161 644 037	3.979

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)
16	68	⅜	101	14	12	60	24	16	43	170	25	M6	142	7
20	68	⅜	101	14	12	60	24	16	43	128	25	M6	96	7
25	96	⅜	132	18	12	73	25	16	57	152	25	M6	114	10
32	96	⅜	143	22	12	84	25	16	57	166	25	M6	122	13
40	120	⅜	173	26	15	99	26	26	69	192	45	M8	140	15
50	150	⅜	214	32	15	119	36	26	88	222	45	M8	160	19
63	150	⅜	226	39	15	132	36	26	88	266	45	M8	190	23

d (mm)	closest inch (inch)
16	⅜
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



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

Model:

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

Option:

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

* PN: PTFE

Working Pressure: **one side**

d (mm)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	10/10*	125	161 645 012	0.479	161 645 032	0.489
25	20	10/10*	271	161 645 013	0.865	161 645 033	0.876
32	25	10/10*	481	161 645 014	1.038	161 645 034	1.058
40	32	10/10*	759	161 645 015	1.734	161 645 035	1.686
50	40	10/10*	1263	161 645 016	3.013	161 645 036	3.490
63	50	10/10*	1728	161 645 017	3.714	161 645 037	4.199

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	⅝	101	14	12	60	24	16	43	124	25	M6	7	⅓
25	96	⅞	132	18	12	73	25	16	57	144	25	M6	10	⅜
32	96	⅞	143	22	12	84	25	16	57	154	25	M6	13	1
40	120	⅞	173	26	15	99	26	26	69	174	45	M8	15	1 ⅛
50	150	⅞	214	32	15	119	36	26	88	194	45	M8	19	1 ½
63	150	⅞	226	39	15	132	36	26	88	224	45	M8	23	2



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

Model:

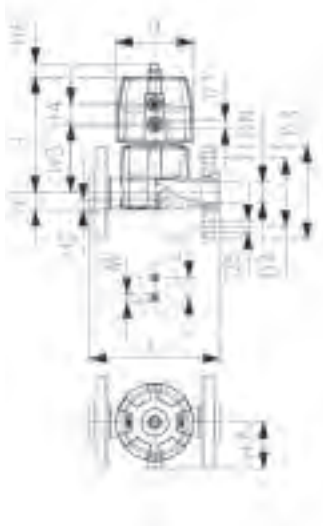
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

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

* PN: PTFE

Working Pressure: **one side**



d	DN	PN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(mm)	(mm)	(psi)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(L/min)				
20	15	150/150*	10/10*	125	161 647 012	0.637	161 647 032	0.647
25	20	150/150*	10/10*	271	161 647 013	1.081	161 647 033	1.092
32	25	150/150*	10/10*	481	161 647 014	1.350	161 647 034	1.370
40	32	150/150*	10/10*	759	161 647 015	1.781	161 647 035	1.801
50	40	150/150*	10/10*	1263	161 647 016	4.066	161 647 036	4.096
63	50	150/150*	10/10*	1728	161 647 017	4.997	161 647 037	5.025

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

d	Lift =	closest
(mm)	Hx	inch
	(mm)	(inch)
20	7	1/2
25	10	3/4
32	13	1
40	15	1 1/4
50	19	1 1/2
63	23	2



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

Model:

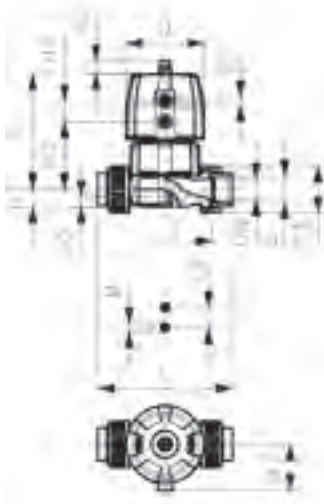
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

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

* PN: PTFE

Working Pressure: **one side**



d	DN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(L/min)				
16	10	10/10*	125	161 654 011	0.526	161 654 031	0.536
20	15	10/10*	125	161 654 012	0.526	161 654 032	0.507
25	20	10/10*	271	161 654 013	0.923	161 654 033	0.922
32	25	10/10*	481	161 654 014	1.542	161 654 034	1.157
40	32	10/10*	759	161 654 015	2.521	161 654 035	1.816
50	40	10/10*	1263	161 654 016	3.250	161 654 036	2.994
63	50	10/10*	1728	161 654 017	4.732	161 654 037	3.961

d	D	D1_G	H	H1	H2	H3	H4	H5	H7	L	L2	M	z	Lift = Hx
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
16	68	⅜	101	14	12	60	24	16	43	170	25	M6	142	7
20	68	⅜	101	14	12	60	24	16	43	128	25	M6	96	7
25	96	⅜	132	18	12	73	25	16	57	152	25	M6	114	10
32	96	⅜	143	22	12	84	25	16	57	166	25	M6	122	13
40	120	⅜	173	26	15	99	26	26	69	192	45	M8	140	15
50	150	⅜	214	32	15	119	36	26	88	222	45	M8	160	19
63	150	⅜	226	39	15	132	36	26	88	266	45	M8	190	23

d	closest
(mm)	inch
	(inch)
16	⅜
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



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

Model:

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

Option:

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

* PN: PTFE

Working Pressure: **one side**



d (mm)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	10/10*	125	161 655 012	0.463	161 655 032	0.473
25	20	10/10*	271	161 655 013	0.829	161 655 033	0.840
32	25	10/10*	481	161 655 014	1.008	161 655 034	1.028
40	32	10/10*	759	161 655 015	1.606	161 655 035	1.626
50	40	10/10*	1263	161 655 016	2.710	161 655 036	2.740
63	50	10/10*	1728	161 655 017	3.421	161 655 037	3.731

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	⅜	101	14	12	60	24	16	43	124	25	M6	7	⅓
25	96	⅜	132	18	12	73	25	16	57	144	25	M6	10	⅜
32	96	⅜	143	22	12	84	25	16	57	154	25	M6	13	1
40	120	⅜	173	26	15	99	26	26	69	174	45	M8	15	1 ⅜
50	150	⅜	214	32	15	119	36	26	88	194	45	M8	19	1 ½
63	150	⅜	226	39	15	132	36	26	88	224	45	M8	23	2



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

Model:

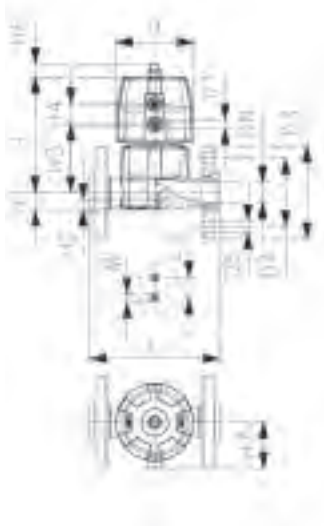
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

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

* PN: PTFE

Working Pressure: **one side**



d (mm)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (L/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	10/10*	125	161 657 012	0.621	161 657 032	0.631
25	20	10/10*	271	161 657 013	1.045	161 657 033	1.056
32	25	10/10*	481	161 657 014	1.320	161 657 034	1.340
40	32	10/10*	759	161 657 015	1.721	161 657 035	1.741
50	40	10/10*	1263	161 657 016	3.316	161 657 036	3.346
63	50	10/10*	1728	161 657 017	4.247	161 657 037	4.275

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)	M
20	68	1/8	95	65	14	101	14	12	60	24	16	43	130	25	M6
25	96	1/8	105	75	14	132	18	12	73	25	16	57	150	25	M6
32	96	1/8	115	85	14	143	22	12	84	25	16	57	160	25	M6
40	120	1/8	140	100	18	173	26	15	99	26	26	69	180	45	M8
50	150	1/8	150	110	18	214	32	15	119	36	26	88	200	45	M8
63	150	1/8	165	125	18	226	39	15	132	36	26	88	230	45	M8

d (mm)	Lift = Hx (mm)	closest inch (inch)
20	7	1/2
25	10	3/4
32	13	1
40	15	1 1/4
50	19	1 1/2
63	23	2

DIASTAR TenPlus



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

Model:

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

Option:

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

* PN: PTFE

Working Pressure: **both sides**



d (mm)	DN (mm)	PN (psi)	PN* (bar)	kv-value (Δp=1 bar) (L/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	150/150*	10/10*	125	161 684 011	0.992	161 684 061	0.992
20	15	150/150*	10/10*	125	161 684 012	1.384	161 684 062	1.384
25	20	150/150*	10/10*	271	161 684 013	1.128	161 684 063	1.128
32	25	150/150*	10/10*	481	161 684 014	2.048	161 684 064	2.048
40	32	150/150*	10/10*	759	161 684 015	3.362	161 684 065	3.362
50	40	150/150*	10/10*	1263	161 684 016	5.585	161 684 066	5.585
63	50	150/150*	10/10*	1728	161 684 017	7.250	161 684 067	7.250

d (mm)	PTFE/EPDM Code	Weight (kg)	PTFE/FPM Code	Weight (kg)
16	161 684 031	1.002		
20	161 684 032	0.996	161 684 052	0.996
25	161 684 033	1.131	161 684 053	1.131
32	161 684 034	2.055	161 684 054	2.055
40	161 684 035	3.306	161 684 055	3.306
50	161 684 036	5.242	161 684 056	5.242
63	161 684 037	6.572	161 684 057	6.572

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 (mm)	z (mm)	Lift = Hx (mm)
16	96	⅜	127	14	12	68	25	16	57	170	25	M6	142	7
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	⅜	196	26	15	101	36	26	88	192	45	M8	140	15
50	180	⅜	239	32	15	124	37	26	103	222	45	M8	160	19
63	180	⅜	251	39	15	137	37	26	103	266	45	M8	190	23

d (mm)	closest inch (inch)
16	⅜
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



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

Model:

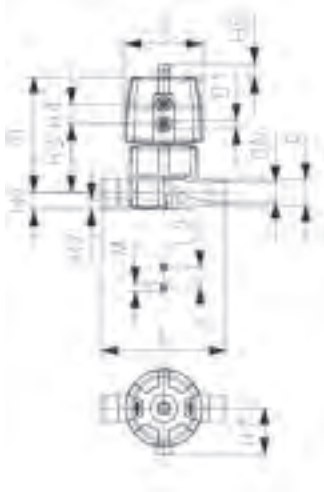
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

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

* PN: PTFE

Working Pressure: **both sides**



d (mm)	DN (mm)	PN (psi)	PN* (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	150/150*	10/10*	125	161 685 012	0.929	161 685 032	0.939
25	20	150/150*	10/10*	271	161 685 013	1.039	161 685 033	1.050
32	25	150/150*	10/10*	481	161 685 014	1.935	161 685 034	1.832
40	32	150/150*	10/10*	759	161 685 015	3.096	161 685 035	3.116
50	40	150/150*	10/10*	1263	161 685 016	4.958	161 685 036	5.360
63	50	150/150*	10/10*	1728	161 685 017	5.668	161 685 037	5.696

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	⅜	127	14	12	68	25	16	57	124	25	M6	7	½
25	96	⅜	132	18	12	73	25	16	57	144	25	M6	10	¾
32	120	⅜	167	22	12	93	26	26	69	154	25	M6	13	1
40	150	⅜	196	26	15	101	36	26	88	174	45	M8	15	1 ¼
50	180	⅜	239	32	15	124	37	26	103	194	45	M8	19	1 ½
63	180	⅜	251	39	15	137	37	26	103	224	45	M8	23	2



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

Model:

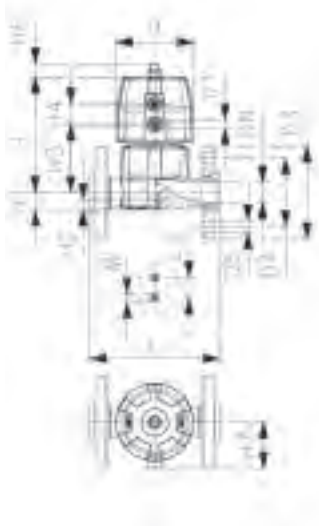
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

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

* PN: PTFE

Working Pressure: **both sides**



d	DN	PN*	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(L/min)				
20	15	10/10*	125	161 687 012	1.087	161 687 062	1.087
25	20	10/10*	271	161 687 013	1.255	161 687 063	1.255
32	25	10/10*	481	161 687 014	2.124	161 687 064	2.124
40	32	10/10*	759	161 687 015	3.211	161 687 065	3.211
50	40	10/10*	1263	161 687 016	5.564	161 687 066	5.564
63	50	10/10*	1728	161 687 017	6.922	161 687 067	6.922

d	PTFE/EPDM	Weight	PTFE/FPM	Weight
(mm)	Code	(kg)	Code	(kg)
20	161 687 032	1.097	161 687 052	1.097
25	161 687 033	1.266	161 687 053	1.266
32	161 687 034	2.144	161 687 054	2.144
40	161 687 035	3.231	161 687 055	3.231
50	161 687 036	5.594	161 687 056	5.594
63	161 687 037	6.522	161 687 057	6.522

d	D	D1_G	D3	D4	D5	H	H1	H2	H3	H4	H5	H7	L	L2	M
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
20	96	¾	95	65	14	127	14	12	68	25	16	57	130	25	M6
25	96	¾	105	75	14	132	18	12	73	25	16	57	150	25	M6
32	120	½	115	85	14	167	22	12	93	26	26	69	160	25	M6
40	150	½	140	100	18	196	26	15	101	36	26	88	180	45	M8
50	180	½	150	110	18	239	32	15	124	37	26	103	200	45	M8
63	180	½	165	125	18	251	39	15	137	37	26	103	230	45	M8

d	Lift =	closest
(mm)	Hx	inch
	(mm)	(inch)
20	7	½
25	10	¾
32	13	1
40	15	1 ¼
50	19	1 ½
63	23	2

DIASTAR big dimensions



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

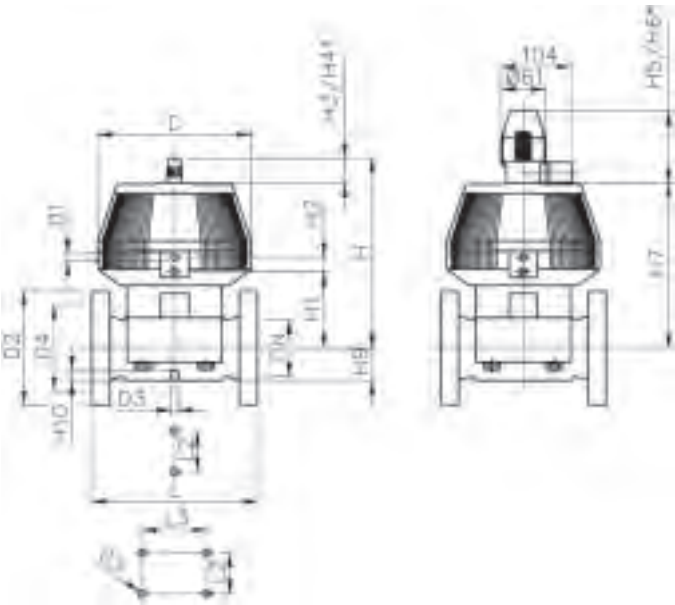
Model:

- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**
- * with backing flanges PVC-U metric
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d	Size	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
	(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
					(l/min)				
*	75	2 ½	65	10	992	199 025 127	15.468	199 025 157	15.115
**	90	3	80	10	1700	199 025 128	17.400	199 025 158	17.604
	110	4	100	6	2700	199 025 129	7.963	199 025 159	27.748
**	160	6	150	6	6033	199 025 130	35.000		

d	D	D1_G	D2	D3[M]	D4	H	H1	H2	H3	H4	H5	H6	H7	H9	
(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	46
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	57
	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	69
**	160	335	¼	285	12	240	455	237	24	46	100	129	195	409	108

	d	H10	L	L2	L3
	(mm)	(mm)	(mm)	(mm)	(mm)
*	75	15	290	70	
**	90	15	310	120	
	110	20	350	120	
**	160	20	480	100	200





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

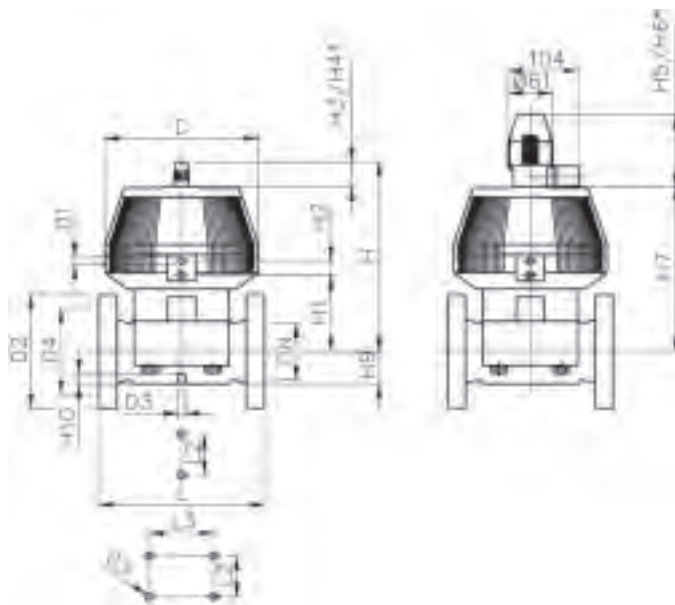
Model:

- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**
- * with backing flanges PVC-U metric
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d	Size	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
	(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
					(l/min)				
*	75	2 ½	65	10	992	199 025 137	11.744	199 025 167	13.600
**	90	3	80	10	1700	199 025 138	13.950	199 025 168	14.137
	110	4	100	6	2700	199 025 139	21.901	199 025 169	24.700
**	160	6	150	6	6033	199 025 140	35.000	199 025 170	35.000

	d	D	D1_G	D2	D3[M]	D4	H	H1	H2	H3	H4	H5	H6	H7	H9
	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	46
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	57
	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	69
**	160	335	¼	285	12	240	455	237	24	46	100	129	195	409	108

	d	H10	L	L2	L3
	(mm)	(mm)	(mm)	(mm)	(mm)
*	75	15	290	70	
**	90	15	310	120	
	110	20	350	120	
**	160	20	480	100	200





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

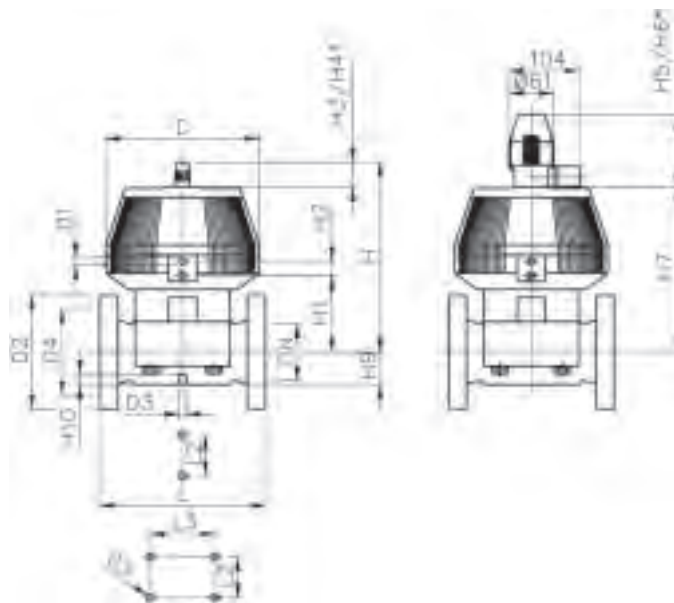
Model:

- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**
- * with backing flanges PVC-U metric
- ** Connecting dimensions DN80 and DN150 metric and Inch ANSI B16.5

	d	Size	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
	(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
					(l/min)				
*	75	2 ½	65	10	992	199 025 147	12.487	199 025 177	12.000
**	90	3	80	10	1700	199 025 148	14.590	199 025 178	17.400
	110	4	100	6	2700	199 025 149	23.343	199 025 179	24.700
	160	6	150	6	6033	199 025 150	35.000	199 025 180	35.000

	d	D	D1_G	D2	D3[M]	D4	H	H1	H2	H3	H4	H5	H6	H7	H9
	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	46
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	57
	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	69
**	160	335	¼	285	12	240	455	237	24	46	100	129	195	409	108

	d	H10	L	L2	L3
	(mm)	(mm)	(mm)	(mm)	(mm)
*	75	15	290	70	
**	90	15	310	120	
	110	20	350	120	
**	160	20	480	100	200



Butterfly valves electric type 145



**Butterfly valve type 145 PVC-U 100-230V
With manual override**

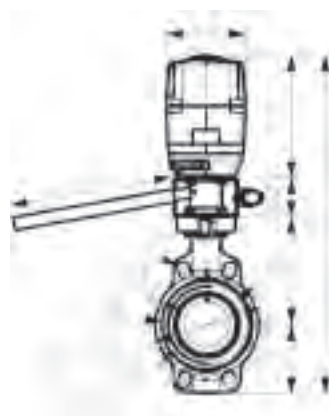
Model:

- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- 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

Option:

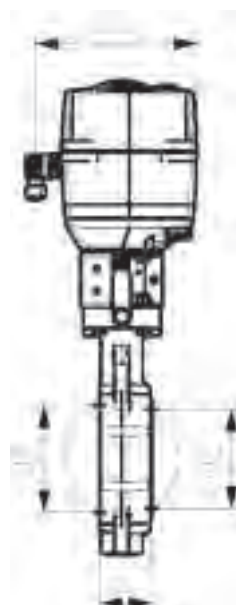
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	199 145 002	6.138	199 145 022	5.682
75	2 ½	65	10	2200	199 145 003	7.213	199 145 023	5.786
90	3	80	10	3000	199 145 004	6.360	199 145 024	5.953
110	4	100	10	6500	199 145 005	6.990	199 145 025	6.573
140	5	125	10	11500	199 145 006	7.508	199 145 026	7.147
160	6	150	10	16600	199 145 007	10.062	199 145 027	8.154
225	8	200	10	39600	199 145 008	14.106	199 145 028	14.134



d	Actuator	d2	D	D1	D1	H	H1	H2	H3	H4	L	L1	L2	L3
(mm)	unit type	(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
				(mm)	(mm)									
63	EA-45	104	19	120	125	475	77	134	188	75	45	122	180	250
75	EA-45	115	19	140	145	488	83	140	188	75	46	122	180	250
90	EA-120	131	19	150	160	488	89	146	188	60	49	122	180	250
110	EA-120	161	19	175	191	520	104	167	188	60	56	122	180	250
140	EA-120	187	23	210	216	547	117	181	188	60	64	122	180	250
160	EA-120	215	24	241	241	568	130	189	188	60	72	122	180	250
225	EA-250	267	23	290	295	635	158	210	208	60	73	122	180	250

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





Butterfly valve type 145 PVC-U 100-230V **Without manual override**

Model:

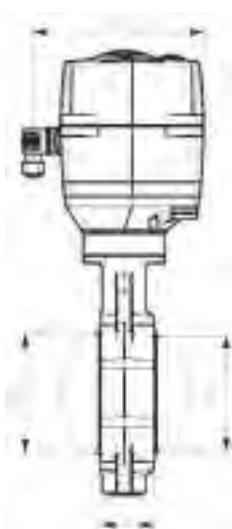
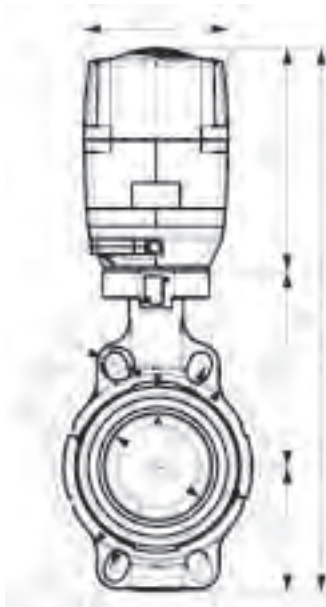
- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

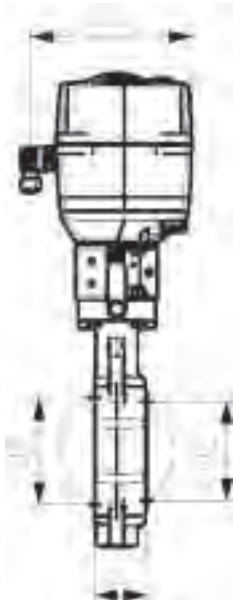
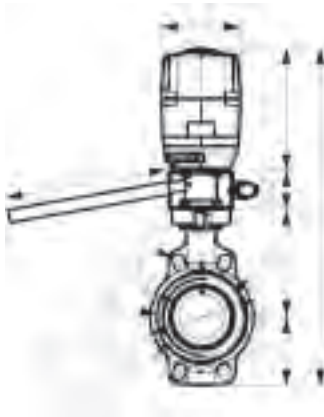
Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	199 145 042	4.408	199 145 062	4.182
75	2 ½	65	10	2200	199 145 043	4.509	199 145 063	4.286
90	3	80	10	3000	199 145 044	4.675	199 145 064	4.453
110	4	100	10	6500	199 145 045	6.890	199 145 065	5.073
140	5	125	10	11500	199 145 046	5.626	199 145 066	5.644
160	6	150	10	39600	199 145 047	6.631	199 145 067	6.654
225	8	200	10	39600	199 145 048	12.606	199 145 068	12.634
280	10	250	6	55200	199 145 049	14.334	199 145 069	14.481
315	12	300	4	80000	199 145 050	19.546	199 145 070	19.546

d	Actuator	d2	D	D1	D1	H	H1	H2	H3	L	L1	L2	Q1	Q2
(mm)	unit type	(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
				(mm)	(mm)									
63	EA-45	104	19	120	125	415	77	134	188	45	122	180	40	
75	EA-45	115	19	140	145	428	83	140	188	46	122	180	54	35
90	EA-120	131	19	150	160	428	89	146	188	49	122	180	67	50
110	EA-120	161	19	175	191	460	104	167	188	56	122	180	88	74
140	EA-120	187	23	210	216	487	117	181	188	64	122	180	113	97
160	EA-120	215	24	241	241	508	130	189	188	72	122	180	139	169
225	EA-250	267	23	290	295	575	158	210	208	73	122	180	178	169
280	EA-250	329	25	353	362	677	205	264	208	113	122	180	210	207
315	EA-250	379	25	400	432	721	228	285	208	113	122	180	256	253





Butterfly valve type 145 PVC-U 24V **With manual override**

Model:

- Voltage 24 V AC/DC
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- 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

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d	Size	DN	PN	kv-value	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
63	2	50	10	1470	199 145 082	6.116
75	2 ½	65	10	2200	199 145 083	6.183
90	3	80	10	3000	199 145 084	6.327
110	4	100	10	6500	199 145 085	6.975
140	5	125	10	11500	199 145 086	9.142
160	6	150	10	16600	199 145 087	8.418
225	8	200	10	39600	199 145 088	14.106

d	Actuator	d2	D	D1	D1	H	H1	H2	H3	H4	L	L1	L2	L3
(mm)	unit type	(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
				(mm)	(mm)									
63	EA-45	104	19	120	125	475	77	134	188	75	45	122	180	250
75	EA-45	115	19	140	145	488	83	140	188	75	46	122	180	250
90	EA-120	131	19	150	160	488	89	146	188	60	49	122	180	250
110	EA-120	161	19	175	191	520	104	167	188	60	56	122	180	250
140	EA-120	187	23	210	216	547	117	181	188	60	64	122	180	250
160	EA-120	215	24	241	241	568	130	189	188	60	72	122	180	250
225	EA-250	267	23	290	295	635	158	210	208	60	73	122	180	250

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



Butterfly valve type 145 PVC-U 24V **Without manual override**

Model:

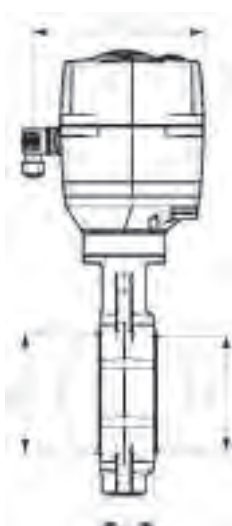
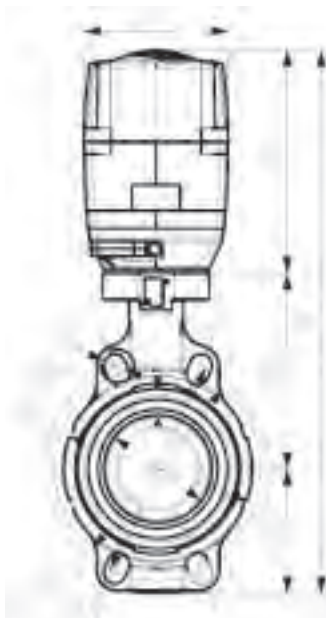
- Voltage 24 V AC/DC
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	199 145 122	4.178	199 145 142	5.073
75	2 ½	65	10	2200	199 145 123	4.281	199 145 143	5.073
90	3	80	10	3000	199 145 124	4.660	199 145 144	5.073
110	4	100	10	6500	199 145 125	5.252	199 145 145	5.073
140	5	125	10	11500	199 145 126	5.793	199 145 146	4.286
160	6	150	10	16600	199 145 127	6.631	199 145 147	4.182
225	8	200	10	39600	199 145 128	12.606	199 145 148	12.634
280	10	250	6	55200	199 145 129		199 145 149	
315	12	300	6	55200	199 145 130	19.546	199 145 150	

d	Actuator	d2	D	D1	D1	H	H1	H2	H3	L	L1	L2	Q1	Q2
(mm)	unit type	(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
				(mm)	(mm)									
63	EA-45	104	19	120	125	415	77	134	188	45	122	180	40	
75	EA-45	115	19	140	145	428	83	140	188	46	122	180	54	35
90	EA-120	131	19	150	160	428	89	146	188	49	122	180	67	50
110	EA-120	161	19	175	191	460	104	167	188	56	122	180	88	74
140	EA-120	187	23	210	216	487	117	181	188	64	122	180	113	97
160	EA-120	215	24	241	241	508	130	189	188	72	122	180	139	123
225	EA-250	267	23	290	295	575	158	210	208	73	122	180	178	169
280	EA-250	329	25	353	362	677	205	264	208	113	122	180	210	207
315	EA-250	329	25	353	362	677	205	264	208	113	122	180	210	207



Butterfly valves type 240

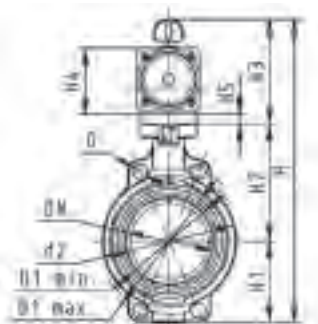


Butterfly valve type 240 PVC-U
FC (Fail safe to close)
Without manual override

Model:

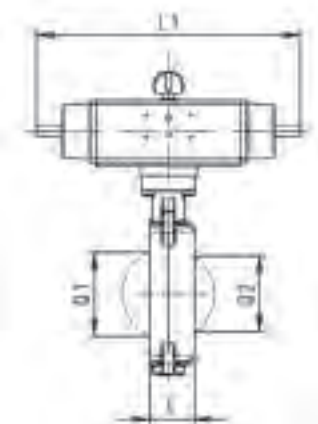
- Control range 90°<)
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

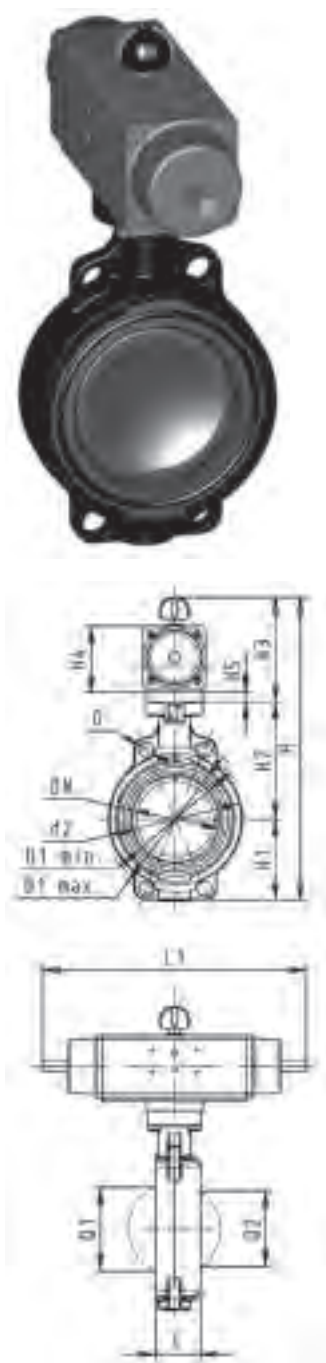
d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	199 240 002	2.976	199 240 022	3.222
75	2 ½	65	10	2200	199 240 003	3.086	199 240 023	3.075
90	3	80	10	3000	199 240 004	3.486	199 240 024	3.938
110	4	100	10	6500	199 240 005	5.224	199 240 025	5.263
140	5	125	10	11500	199 240 006	7.127	199 240 026	6.884
160	6	150	10	16600	199 240 007	10.047	199 240 027	10.095
225	8	200	10	39600	199 240 008	14.925	199 240 028	14.134
280	10	250	10	55200	199 240 009	28.200	199 240 029	28.000
315	12	300	10	80000	199 240 010	36.200	199 240 030	36.400



d	Actuator unit	d2	D	D1	D1	H	H1	H2	H3	H4	H5	L	L1
(mm)	type	(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
				(mm)	(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
280	PA-65 FC	329	25	353	362	808	205	264	191	148		113	648
315	PA-70 FC	379	25	400	432	866	228	285	196	157		113	663

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





Butterfly valve type 240 PVC-U

FO (Fail safe to open)

Without manual override

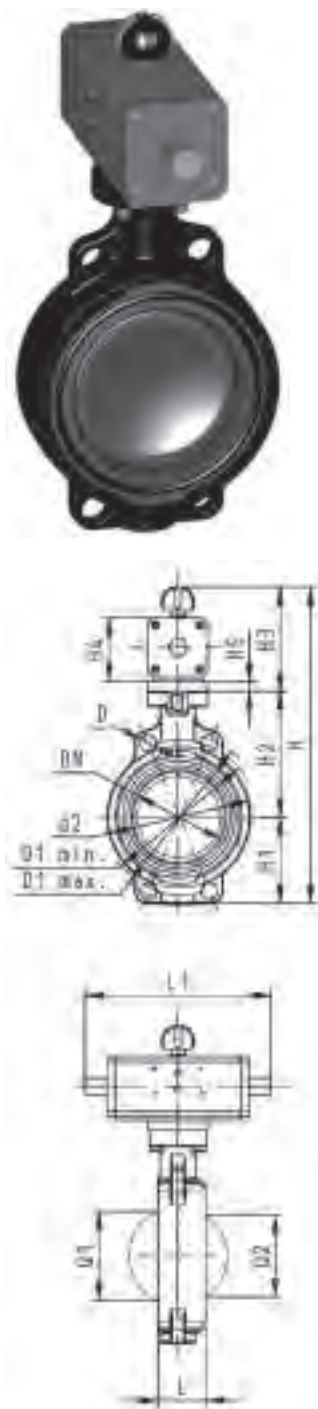
Model:

- 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	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	199 240 042	3.218	199 240 062	3.222
75	2 ½	65	10	2200	199 240 043	3.321	199 240 063	3.326
90	3	80	10	3000	199 240 044	3.920	199 240 064	3.493
110	4	100	10	6500	199 240 045	5.219	199 240 065	5.266
140	5	125	10	11500	199 240 046	6.866	199 240 066	6.884
160	6	150	10	16600	199 240 047	10.192	199 240 067	10.215
225	8	200	10	39600	199 240 048	14.106	199 240 068	16.496
280	10	250	10	55200	199 240 049	31.800	199 240 069	31.600
315	12	300	10	80000	199 240 050	36.200	199 240 070	25.000

d	Actuator unit	d2	D	D1	D1	H	H1	H2	H3	H4	H5	L	L1
(mm)	type	(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
				(mm)	(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
280	PA-70 FO	329	25	353	362	808	205	264	191	148		113	648
315	PA-70 FO	379	25	400	432	866	228	285	196	157		113	663

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



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

Model:

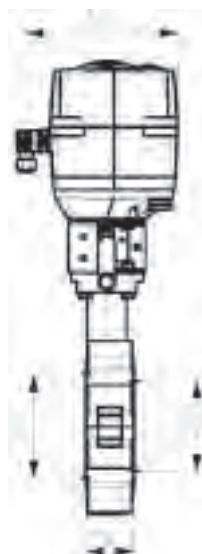
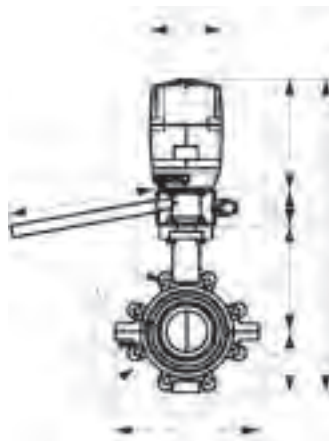
- Control range 90°<
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- For DN350-DN400 pneumatic actuator supplied by Revac

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	199 240 082	2.936	199 240 102	2.072
75	2 ½	65	10	2200	199 240 083	2.402	199 240 103	2.176
90	3	80	10	3000	199 240 084	3.330	199 240 104	2.824
110	4	100	10	6500	199 240 085	3.765	199 240 105	3.563
140	5	125	10	11500	199 240 086	4.341	199 240 106	4.384
160	6	150	10	16600	199 240 087	7.042	199 240 107	6.694
225	8	200	10	39600	199 240 088	8.907	199 240 108	8.134
280	10	250	10	55200	199 240 089	18.948	199 240 109	19.100
315	12	300	10	80000	199 240 090	26.800	199 240 110	27.000
355	14	350	6	90000	199 240 091	40.600	199 240 111	70.000
400	16	400	6	115000	199 240 092	62.100	199 240 112	62.100

d	Actuator unit	d2	D	D1	D1	H	H1	H2	H3	H4	H5	L	L1
(mm)	type	(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
				(mm)	(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
280	PA-65 DA	329	25	353	362	748	205	264	161	118		113	350
315	PA-70 DA	379	25	400	432	816	228	285	173	130		113	381
355	AP 5	535	29	445	577	863	268	410	185	155		129	360
400	AP 5.5	593	29	510	540	941	300	435	206	176		169	380

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

Lugstyle butterfly valves electric type 146



Lugstyle butterfly valve type 146 PVC-U 100-230V With manual override

Model:

- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d	Size	DN	PN	kv-value	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
63	2	50	10	1470	199 146 002	5.799
75	2 ½	65	10	2200	199 146 003	5.956
90	3	80	10	3000	199 146 004	6.201
110	4	100	10	6500	199 146 005	7.106
140	5	125	10	11500	199 146 006	8.620
160	6	150	10	16600	199 146 007	10.381
225	8	200	10	39600	199 146 008	15.125

d	Actuator	d2	D	D1	H	H1	H2	H3	H4	L	L1	L2	L3	Q1	Q2
(mm)	unit type	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	EA-45	160	M16	125	474	77	134	188	75	45	122	180	165	40	
75	EA-45	180	M16	145	486	83	140	188	75	46	122	180	182	54	35
90	EA-120	195	M16	160	483	89	146	188	60	49	122	180	210	67	50
110	EA-120	226	M16	180	521	106	167	188	60	56	122	180	240	88	74
140	EA-120	258	M16	210	550	121	181	188	60	64	122	180	272	113	97
160	EA-120	284	M20	240	570	133	189	188	60	72	122	180	300	139	123
225	EA-250	341	M20	295	637	159	210	208	60	73	122	180	360	178	169



Lugstyle butterfly valve type 146 PVC-U 100-230V **Without manual override**

Model:

- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

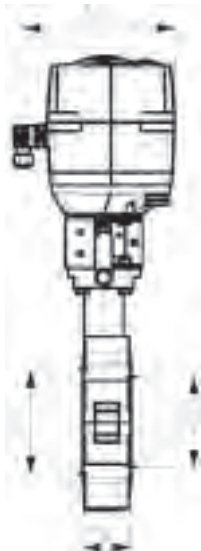
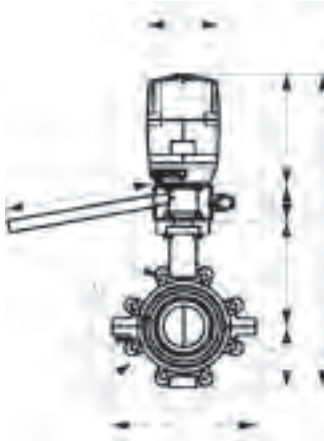
Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board



d	Size	DN	PN	kv-value	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
63	2	50	10	1470	199 146 042	4.299
75	2 ½	65	10	2200	199 146 043	4.456
90	3	80	10	3000	199 146 044	4.456
110	4	100	10	6500	199 146 045	5.606
140	5	125	10	11500	199 146 046	7.120
160	6	150	10	16600	199 146 047	8.881
225	8	200	10	39600	199 146 048	13.625
280	10	250	6	55200	199 146 049	24.385
315	12	300	4	80000	199 146 050	30.916

d	Actuator	d2	D	D1	H	H1	H2	H3	L	L1	L2	L3	Q1	Q2
(mm)	unit type	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	EA-45	160	M16	125	414	77	134	188	45	122	180	165	40	
75	EA-45	180	M16	145	426	83	140	188	46	122	180	182	54	35
90	EA-120	195	M16	160	423	89	146	188	49	122	180	210	67	50
110	EA-120	226	M16	180	461	106	167	188	56	122	180	240	88	74
140	EA-120	258	M16	210	490	121	181	188	64	122	180	272	113	97
160	EA-120	284	M20	240	510	133	189	188	72	122	180	300	139	123
225	EA-250	341	M20	295	577	159	210	208	73	122	180	360	178	169
280	EA-250	412	M20	350	677	205	264	208	113	122	180	440	210	207
315	EA-250	482	M20	400	727	234	285	208	113	122	180	510	256	253



Lugstyle butterfly valve type 146 PVC-U 24V **With manual override**

Model:

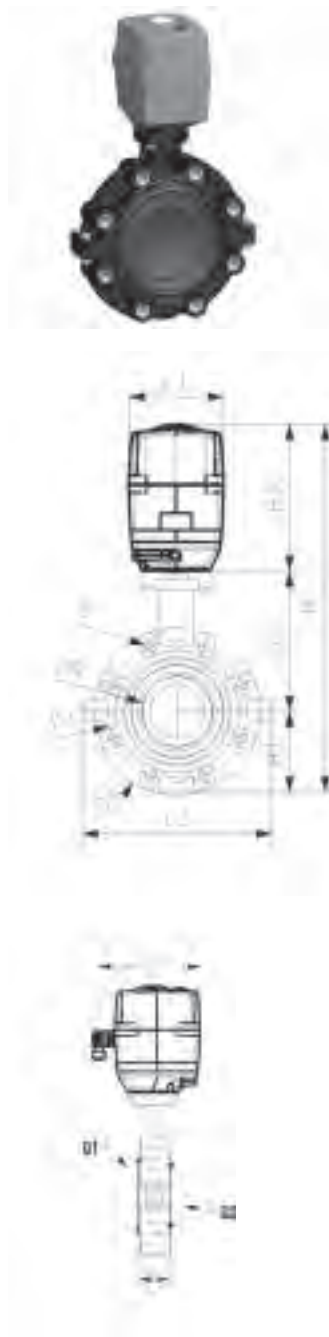
- Voltage 24 V AC/DC
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d	Size	DN	PN	kv-value	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
63	2	50	10	1470	199 146 082	5.799
75	2 ½	65	10	2200	199 146 083	5.956
90	3	80	10	3000	199 146 084	6.201
110	4	100	10	6500	199 146 085	7.106
140	5	125	10	11500	199 146 086	8.620
160	6	150	10	16600	199 146 087	10.381
225	8	200	10	39600	199 146 088	15.125

d	Actuator	d2	D	D1	H	H1	H2	H3	H4	L	L1	L2	L3	Q1	Q2
(mm)	unit type	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	EA-45	160	M16	125	459	77	134	188	60	45	122	180	165	40	
75	EA-45	180	M16	145	471	83	140	188	60	46	122	180	182	54	35
90	EA-120	195	M16	160	483	89	146	188	60	49	122	180	210	67	50
110	EA-120	226	M16	180	521	106	167	188	60	56	122	180	240	88	74
140	EA-120	258	M16	210	550	121	181	188	60	64	122	180	272	113	97
160	EA-120	284	M20	240	570	133	189	188	60	72	122	180	300	139	123
225	EA-250	341	M20	295	637	159	210	208	60	73	122	180	360	178	169



Lugstyle butterfly valve type 146 PVC-U 24V **Without manual override**

Model:

- Voltage 24 V AC/DC
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d	Size	DN	PN	kv-value	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
63	2	50	10	1470	199 146 122	4.299
75	2 ½	65	10	2200	199 146 123	4.456
90	3	80	10	3000	199 146 124	4.701
110	4	100	10	6500	199 146 125	5.606
140	5	125	10	11500	199 146 126	7.120
160	6	150	10	16600	199 146 127	8.881
225	8	200	10	39600	199 146 128	13.625

d	Actuator	d2	D	D1	H	H1	H2	H3	L	L1	L2	L3	Q1	Q2
(mm)	unit type	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	EA-45	160	M16	125	414	77	134	188	45	122	180	165	40	
75	EA-45	180	M16	145	426	83	140	188	46	122	180	182	54	35
90	EA-120	195	M16	160	423	89	146	188	49	122	180	210	67	50
110	EA-120	226	M16	180	461	106	167	188	56	122	180	240	88	74
140	EA-120	258	M16	210	490	121	181	188	64	122	180	272	113	97
160	EA-120	284	M20	240	410	133	189	188	72	122	180	300	139	123
225	EA-250	341	M20	295	577	159	210	208	73	122	180	360	178	169

Lugstyle butterfly valves type 243



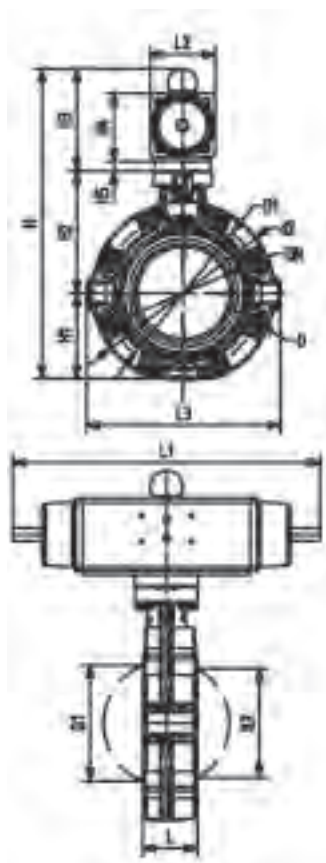
Lugstyle butterfly valve type 243 PVC-U
FC (Fail safe to close)
Without manual override

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)



d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	199 243 002	3.499	199 243 022	3.499
75	2 ½	65	10	2200	199 243 003	3.656	199 243 023	3.656
90	3	80	10	3000	199 243 004	4.692	199 243 024	4.692
110	4	100	10	6500	199 243 005	6.406	199 243 025	6.406
140	5	125	10	11500	199 243 006	9.222	199 243 026	9.222
160	6	150	10	16600	199 243 007	12.902	199 243 027	12.902
225	8	200	10	39600	199 243 008	16.691	199 243 028	16.691
280	10	250	10	55200	199 243 009	33.880	199 243 029	33.880
315	12	300	10	80000	199 243 010	43.985	199 243 030	43.985

d	Actuator unit	d2	D	D1	H	H1	H2	H3	H4	H5	L	L1	L2	L3
(mm)	type	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	PA-30 FC	160	M16	125	328	77	134	117	70	15	45	276	65	165
75	PA-30 FC	180	M16	145	340	83	140	117	70	15	46	276	65	182
90	PA-35 FC	195	M16	160	361	89	146	126	78	15	49	326	72	210
110	PA-40 FC	226	M16	180	402	106	167	129	86		56	370	80	240
140	PA-45 FC	258	M16	210	441	121	181	139	96		64	411	90	272
160	PA-50 FC	284	M20	240	471	133	189	149	106		72	423	100	300
225	PA-55 FC	341	M20	295	530	159	210	161	118		73	452	112	360
280	PA-65 FC	412	M20	350	660	205	264	191	148		113	648	137	440
315	PA-70 FC	482	M20	400	715	234	285	196	157		113	663	145	510

d	Q1	Q2
(mm)	(mm)	(mm)
63	40	
75	54	35
90	67	50
110	88	74
140	113	97
160	139	123
225	178	169
280	210	207
315	256	253

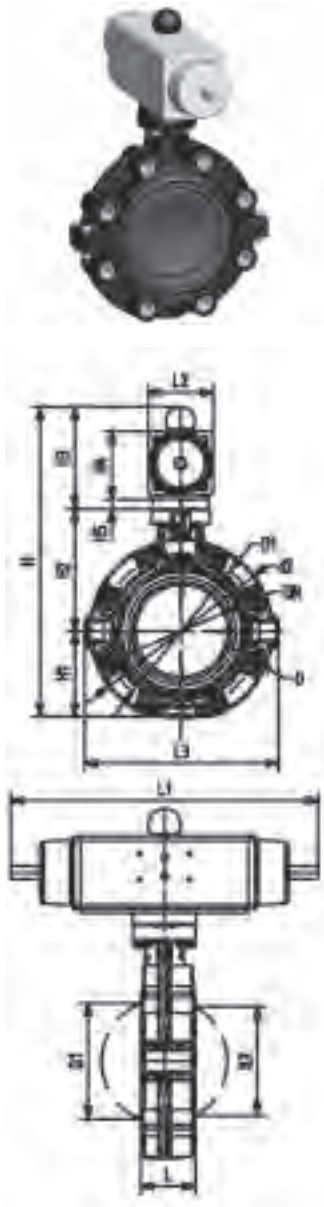


- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

d	Actuator unit	d2	D	D1	H	H1	H2	H3	H4	H5	L	L1	L2	L3
(mm)	type	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	PA-30 FO	160	M16	125	328	77	134	117	70	15	45	276	65	165
75	PA-30 FO	180	M16	145	340	83	140	117	70	15	46	276	65	182
90	PA-35 FO	195	M16	160	361	89	146	126	78	15	49	326	72	210
110	PA-40 FO	226	M16	180	402	106	167	129	86		56	370	80	240
140	PA-45 FO	258	M16	210	441	121	181	139	96		64	411	90	272
160	PA-50 FO	284	M20	240	471	133	189	149	106		72	423	100	300
225	PA-55 FO	341	M20	295	530	159	210	161	118		73	452	112	360
280	PA-70 FO	412	M20	350	660	205	264	191	148		113	648	137	440
315	PA-70 FO	482	M20	400	715	234	285	196	157		113	663	145	510

+GF+



Lugstyle butterfly valve type 243 PVC-U

DA (Double acting)

Without manual override

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	199 243 082	3.499	199 243 102	3.499
75	2 ½	65	10	2200	199 243 083	3.656	199 243 103	3.656
90	3	80	10	3000	199 243 084	4.692	199 243 104	4.692
110	4	100	10	6500	199 243 085	6.406	199 243 105	6.406
140	5	125	10	11500	199 243 086	9.222	199 243 106	9.222
160	6	150	10	16600	199 243 087	12.902	199 243 107	12.902
225	8	200	10	39600	199 243 088	16.691	199 243 108	16.691
280	10	250	10	55200	199 243 089	33.880	199 243 109	33.880
315	12	300	10	80000	199 243 090	43.985	199 243 110	43.985

d	Actuator unit	d2	D	D1	H	H1	H2	H3	H4	H5	L	L1	L2	L3
(mm)	type	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	PA-35 DA	160	M16	125	318	77	134	107	60	15	45	177	55	165
75	PA-35 DA	180	M16	145	330	83	140	107	60	15	46	177	55	182
90	PA-40 DA	195	M16	160	348	89	146	113	66	15	49	190	60	210
110	PA-45 DA	226	M16	180	375	106	167	102	71		56	235	65	240
140	PA-45 DA	258	M16	210	413	121	181	111	78		64	235	72	272
160	PA-55 DA	284	M20	240	451	133	189	129	86		72	279	80	300
225	PA-55 DA	341	M20	295	508	159	210	139	96		73	279	90	360
280	PA-65 DA	412	M20	350	630	205	264	161	118		113	350	112	440
315	PA-70 DA	482	M20	400	692	234	285	173	130		113	381	124	510

d	Q1	Q2
(mm)	(mm)	(mm)
63	40	
75	54	35
90	67	50
110	88	74
140	113	97
160	139	123
225	178	169
280	210	207
315	256	253

Pressure regulating valves

Pressure reducing valve type 582

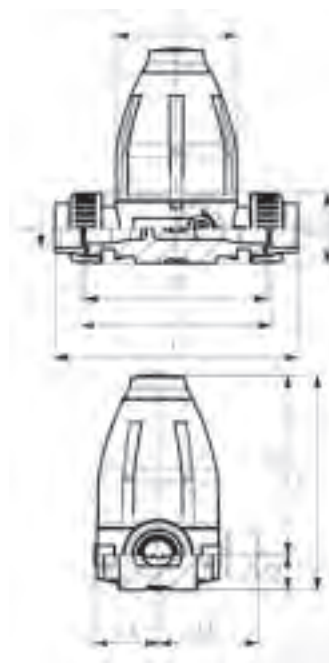


Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets metric
With manometer

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	DN	PN	O-rings	Weight	O-rings
(mm)	(mm)	(bar)	EPDM	(kg)	FPM
			Code		Code
16	10	10	161 582 121	0.724	161 582 131
20	15	10	161 582 122	0.730	161 582 132
25	20	10	161 582 123	1.520	161 582 133
32	25	10	161 582 124	1.550	161 582 134
40	32	10	161 582 125	4.100	161 582 135
50	40	10	161 582 126	4.270	161 582 136
63	50	10	161 582 127	4.500	161 582 137

d	D	D1	H	H1	H2	H3	L	L2	L3	L4	L5	M	z	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(inch)
16	79	35	132	111	21	12	180	120	42	77	40	M6	172	⅝
20	79	43	132	111	21	12	158	120	42	77	40	M6	126	½
25	100	51	177	148	29	14	194	150	53	88	46	M6	156	¾
32	100	58	177	148	29	14	200	150	53	88	46	M6	156	1
40	147	72	251	207	44	21	263	205	76	111	65	M8	211	1 ¼
50	147	83	251	207	44	21	273	205	76	111	65	M8	211	1 ½
63	147	101	251	207	44	21	287	205	76	111	65	M8	211	2



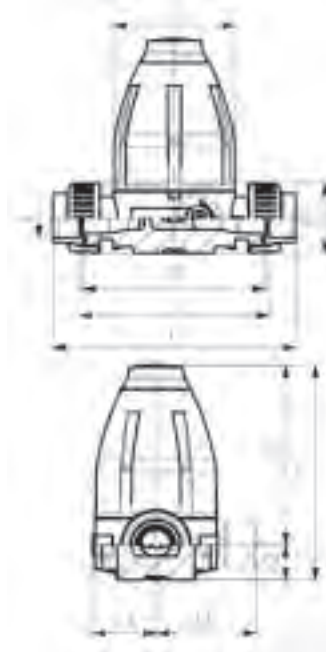
Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets metric
Without manometer

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	Weight (kg)	O-rings FPM Code
16	10	10	161 582 101	0.694	161 582 111
20	15	10	161 582 102	0.700	161 582 112
25	20	10	161 582 103	1.490	161 582 113
32	25	10	161 582 104	1.520	161 582 114
40	32	10	161 582 105	4.070	161 582 115
50	40	10	161 582 106	4.240	161 582 116
63	50	10	161 582 107	4.470	161 582 117

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)
16	79	35	132	111	21	12	180	120	42	40	M6	172	3/8
20	79	43	132	111	21	12	158	120	42	40	M6	126	1/2
25	100	51	177	148	29	14	194	150	53	46	M6	156	3/4
32	100	58	177	148	29	14	200	150	53	46	M6	156	1
40	147	72	251	207	44	21	263	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	101	251	207	44	21	287	205	76	65	M8	211	2

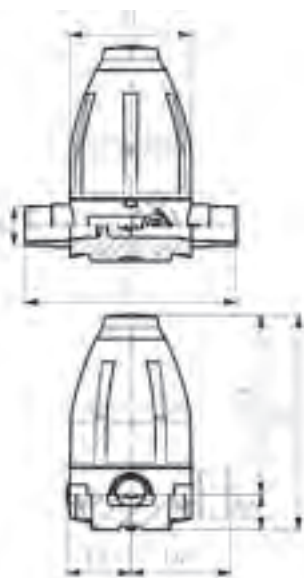


Pressure reducing valve type 582 PVC-U
With solvent cement spigots metric
With manometer

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	DN	PN	O-rings	Weight	O-rings FPM
(mm)	(mm)	(bar)	EPDM Code	(kg)	Code
16	10	10	161 582 021	0.650	161 582 031
20	15	10	161 582 022	0.660	161 582 032
25	20	10	161 582 023	1.430	161 582 033
32	25	10	161 582 024	1.440	161 582 034
40	32	10	161 582 025	3.960	161 582 035
50	40	10	161 582 026	3.970	161 582 036
63	50	10	161 582 027	4.040	161 582 037

d	D	H	H1	H2	H3	L	L3	L4	L5	M	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(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



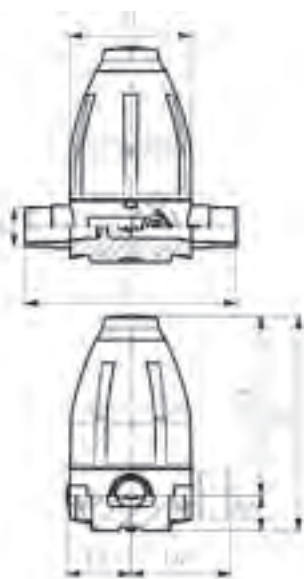
Pressure reducing valve type 582 PVC-U
With solvent cement spigots metric
Without manometer

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

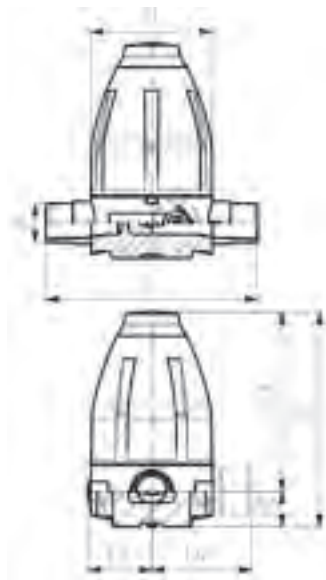
Manometer on request



d	DN	PN	O-rings	Weight	O-rings FPM
(mm)	(mm)	(bar)	EPDM Code	(kg)	Code
16	10	10	161 582 001	0.620	161 582 011
20	15	10	161 582 002	0.630	161 582 012
25	20	10	161 582 003	1.400	161 582 013
32	25	10	161 582 004	1.410	161 582 014
40	32	10	161 582 005	3.930	161 582 015
50	40	10	161 582 006	3.940	161 582 016
63	50	10	161 582 007	4.010	161 582 017

d	D	H	H1	H2	H3	L	L3	L5	M	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(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

table continued on the next page



d	D	H	H1	H2	H3	L	L3	L5	M	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(inch)
32	100	177	148	29	14	174	53	46	M6	1
40	147	251	207	44	21	224	76	65	M8	1 ¼
50	147	251	207	44	21	224	76	65	M8	1 ½
63	147	251	207	44	21	244	76	65	M8	2



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

Type	d	DN	EPDM	Weight	PTFE
	(mm)	(mm)	Code	(kg)	Code
V82	75	65	199 041 019	11.685	199 041 029
V82	90	80	199 041 020	19.630	199 041 030
V82	110	100	199 041 021	31.640	199 041 031

D	H	H1	L	closest inch	Pressure range
(mm)	(mm)	(mm)	(mm)	(inch)	(bar)
200	350	250	300	2 ½	0.5 - 6.0
250	425	305	360	3	0.5 - 6.0
300	495	345	420	4	0.5 - 4.0

Pressure retaining valve type 586



Pressure retaining valve type 586 PVC-U
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	DN	PN	O-rings	Weight	O-rings FPM
(mm)	(mm)	(bar)	EPDM Code	(kg)	Code
16	10	10	161 586 101	0.694	161 586 111
20	15	10	161 586 102	0.690	161 586 112
25	20	10	161 586 103	1.510	161 586 113
32	25	10	161 586 104	1.540	161 586 114
40	32	10	161 586 105	4.200	161 586 115
50	40	10	161 586 106	4.260	161 586 116
63	50	10	161 586 107	4.500	161 586 117

d	D	D1	H	H1	H2	H3	L	L2	L3	L5	M	z	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(inch)
16	79	35	132	111	21	12	154	120	42	40	M6	172	3/8
20	79	43	132	111	21	12	158	120	42	40	M6	126	1/2
25	100	51	177	148	29	14	194	150	53	46	M6	156	3/4
32	100	58	177	148	29	14	200	150	53	46	M6	156	1
40	147	72	251	207	44	21	263	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	101	251	207	44	21	287	205	76	65	M8	211	2



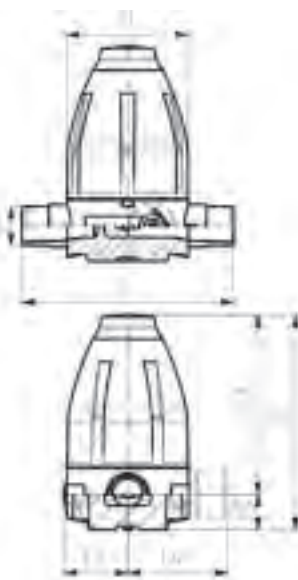
Pressure retaining valve type 586 PVC-U
With solvent cement spigots metric
Without manometer

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	Weight (kg)	O-rings FPM Code
16	10	10	161 586 001	0.620	161 586 011
20	15	10	161 586 002	0.620	161 586 012
25	20	10	161 586 003	1.420	161 586 013
32	25	10	161 586 004	1.430	161 586 014
40	32	10	161 586 005	3.960	161 586 015
50	40	10	161 586 006	3.960	161 586 016
63	50	10	161 586 007	4.040	161 586 017

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	$\frac{3}{8}$
20	79	132	111	21	12	134	42	40	M6	$\frac{1}{2}$
25	100	177	148	29	14	174	53	46	M6	$\frac{3}{4}$
32	100	177	148	29	14	174	53	46	M6	1
40	147	251	207	44	21	224	76	65	M8	1 $\frac{1}{4}$
50	147	251	207	44	21	224	76	65	M8	1 $\frac{1}{2}$
63	147	251	207	44	21	244	76	65	M8	2



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

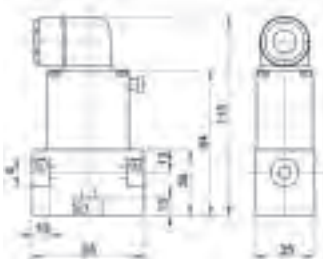
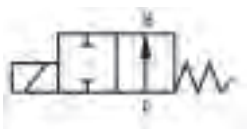
Type	d (mm)	DN (mm)	EPDM Code	Weight (kg)	PTFE Code	Weight (kg)
V86	75	65	199 041 950	7.700	199 041 990	7.700
V86	90	80	199 041 988	17.700	199 041 991	17.700
V86	110	100	199 041 953	19.600	199 041 945	19.600



D (mm)	H (mm)	H1 (mm)	L (mm)	closest inch (inch)	Pressure range (bar)
180	275	230	284	2 ½	1.0 - 6.0
250	410	320	360	3	1.0 - 6.0
250	485	415	380	4	1.0 - 4.0



Solenoid valves

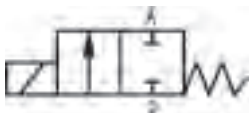


Solenoid valve type 157 Straight-through valve 2/2 ways

Model:

- Material PVC-U: with threaded sockets parallel female thread Rp
- With manual override
- Electrical connection: cable plug
- Protection class IP 65

DN (mm)	Inch (inch)	Voltage	PN (bar)	Function	EPDM Code	FPM Code
4	G3/8	24V	0 - 4	B	199 157 647	199 157 642
6	G3/8	24V	0 - 2	B	199 157 648	199 157 643
8	G3/8	24V AC/DC	0 - 1	B	199 157 649	199 157 644
4	G3/8	230V 50Hz ± 10%	0 - 4	B	199 157 027	199 157 022
6	G3/8	230V 50Hz ± 10%	0 - 2	B	199 157 028	199 157 023
8	G3/8	230V 50Hz ± 10%	0 - 1	B	199 157 029	199 157 024
4	G3/8	24V	0 - 4	A	199 157 627	199 157 622
6	G3/8	24V	0 - 1	A	199 157 628	199 157 623
8	G3/8	24V AC/DC	0 - 1	A	199 157 629	199 157 624
4	G3/8	230V 50Hz ± 10%	0 - 4	A	199 157 007	199 157 002
6	G3/8	230V 50Hz ± 10%	0 - 2	A	199 157 008	199 157 003
8	G3/8	230V 50Hz ± 10%	0 - 1	A	199 157 009	199 157 004



Solenoid valve type 160

Straight through valve 2/2 ways

Model:

- Material: PVC-U
- With solvent cement socket metric
- With manual override
- Electric connection with cable plug
- Protection class IP 65

d (mm)	DN (mm)	Voltage	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	Function	EPDM Code	FPM Code
16	10	230V 50Hz $\pm$ 10%	0.0 - 3.0	33	A	199 160 010	199 160 005
20	10	230V 50Hz $\pm$ 10%	0.0 - 3.0	33	A	199 160 011	199 160 006
20	15	230V 50Hz $\pm$ 10%	0.0 - 1.0	75	A	199 160 012	199 160 007
25	15	230V 50Hz $\pm$ 10%	0.0 - 1.0	75	A	199 160 013	199 160 008
25	20	230V 50Hz $\pm$ 10%	0.0 - 0.5	100	A	199 160 014	199 160 009
16	10	230V 50Hz $\pm$ 10%	0.0 - 2.0	33	B	199 160 025	199 160 020
20	10	230V 50Hz $\pm$ 10%	0.0 - 2.0	33	B	199 160 026	199 160 021
20	15	230V 50Hz $\pm$ 10%	0.0 - 1.0	75	B	199 160 027	199 160 022
25	15	230V 50Hz $\pm$ 10%	0.0 - 1.0	75	B	199 160 028	199 160 023
25	20	230V 50Hz $\pm$ 10%	0.0 - 0.5	100	B	199 160 029	199 160 024
16	10	24V AC/DC	0.0 - 3.0	33	A	199 160 370	199 160 365
20	10	24V AC/DC	0.0 - 3.0	33	A	199 160 371	199 160 366
20	15	24V AC/DC	0.0 - 1.0	75	A	199 160 372	199 160 367
25	15	24V AC/DC	0.0 - 1.0	75	A	199 160 373	199 160 368
25	20	24V AC/DC	0.0 - 0.5	100	A	199 160 374	199 160 369
16	10	24V AC/DC	0.0 - 2.0	33	B	199 160 385	199 160 380
20	10	24V AC/DC	0.0 - 2.0	33	B	199 160 386	199 160 381
20	15	24V AC/DC	0.0 - 1.0	75	B	199 160 387	199 160 382
25	15	24V AC/DC	0.0 - 1.0	75	B	199 160 388	199 160 383
25	20	24V AC/DC	0.0 - 0.5	100	B	199 160 389	199 160 384

d (mm)	L (mm)	L1 (mm)	L2 (mm)
16	30	17	14
20	30	17	14
20	33	19	16
25	33	19	16
25	37	22	19
16	30	17	14
20	30	17	14
20	33	19	16
25	33	19	16
25	37	22	19
16	30	17	14
20	30	17	14
20	33	19	16
25	33	19	16
25	37	22	19
16	30	17	14
20	30	17	14
20	33	19	16
25	33	19	16
25	37	22	19



Solenoid valve type 161

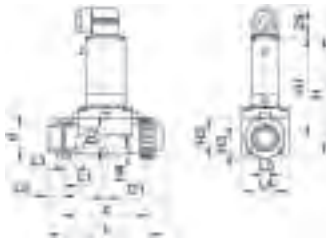
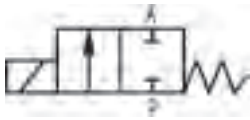
Mixing valve 3/2 ways

Model:

- Material: PVC-U
- With solvent cement socket metric
- With manual override
- Electrical connection: cable plug
- Protection class IP 65

d (mm)	DN (mm)	Voltage	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	Function	EPDM Code	FPM Code
16	10	24V AC/DC	0.00 - 0.60	33	E	199 161 430	199 161 425
20	10	24V AC/DC	0.00 - 0.60	33	E	199 161 431	199 161 426
20	15	24V AC/DC	0.00 - 0.30	67	E	199 161 432	199 161 427
25	15	24V AC/DC	0.00 - 0.30	67	E	199 161 433	199 161 428
25	20	24V AC/DC	0.00 - 0.20	83	E	199 161 434	199 161 429
16	10	230V 50Hz $\pm 10\%$	0.00 - 1.00	33	F	199 161 055	199 161 050
20	10	230V 50Hz $\pm 10\%$	0.00 - 1.00	33	F	199 161 056	199 161 051
20	15	230V 50Hz $\pm 10\%$	0.00 - 0.50	67	F	199 161 057	199 161 052
25	15	230V 50Hz $\pm 10\%$	0.00 - 0.50	67	F	199 158 058	199 161 053
25	20	230V 50Hz $\pm 10\%$	0.00 - 0.25	83	F	199 161 059	199 161 054
16	10	230V 50Hz $\pm 10\%$	0.00 - 0.60	33	E	199 161 040	199 161 035
20	10	230V 50Hz $\pm 10\%$	0.00 - 0.60	33	E	199 161 041	199 161 036
20	15	230V 50Hz $\pm 10\%$	0.00 - 0.30	67	E	199 161 042	199 161 037
25	15	230V 50Hz $\pm 10\%$	0.00 - 0.30	67	E	199 161 043	199 161 038
25	20	230V 50Hz $\pm 10\%$	0.00 - 0.20	83	E	199 161 044	199 161 039
16	10	24V AC/DC	0.00 - 1.00	33	F	199 161 445	199 161 440
20	10	24V AC/DC	0.00 - 1.00	33	F	199 161 446	199 161 441
20	15	24V AC/DC	0.00 - 0.50	67	F	199 161 447	199 161 442
25	15	24V AC/DC	0.00 - 0.50	67	F	199 161 448	199 161 443
25	20	24V AC/DC	0.00 - 0.25	83	F	199 161 449	199 161 444

d (mm)	L (mm)	L2 (mm)	H (mm)	H1 (mm)	L1 (mm)
16	30	14	40	30	17
20	30	14	40	30	17
20	33	16	43	33	19
25	33	16	43	33	19
25	37	19	47	37	22
16	30	14	40	30	17
20	30	14	40	30	17
20	33	16	43	33	19
25	33	16	43	33	19
25	37	19	47	37	22
16	30	14	40	30	17
20	30	14	40	30	17
20	33	16	43	33	19
25	33	16	43	33	19
25	37	19	47	37	22
16	30	14	40	30	17
20	30	14	40	30	17
20	33	16	43	33	19
25	33	16	43	33	19
25	37	19	47	37	22



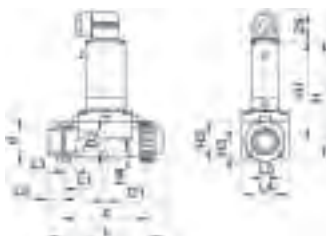
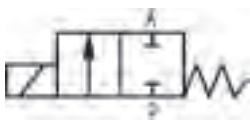
Solenoid valve type 165
Straight-through valve 2/2 ways
230V 50Hz

Model:

- Function A, PN 0.5-6bar
- Material PVDF: with fusion socket metric
- Material PVC-U: with solvent cement socket metric
- Protection class IP 65
- Electrical connection: cable plug
- With manual override

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

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



Solenoid valve type 165
Straight-through valve 2/2 ways
115V 50Hz

Model:

- Function A, PN 0.5-6bar
- Material PVDF: with fusion socket metric
- Material PVC-U: with solvent cement socket metric
- Protection class IP 65
- Electrical connection: cable plug
- With manual override

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

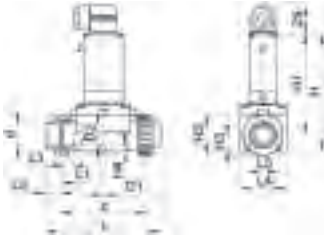
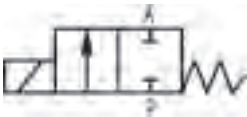
d (mm)	H4 (mm)	L2 (mm)	L5 (mm)	z (mm)	H2 (mm)	L (mm)	L1 (mm)	H (mm)	H3 (mm)	H1 (mm)	L4 (mm)
20	8	16	40	116	53	148	110	148	22	122	63
25	8	19	40	116	53	154	110	148	22	122	62
32	15	22	45	147	76	190	141	175	31	137	85
40	15	26	45	147	76	198	141	175	31	137	85
50	15	31	45	198	105	254	192	212	42	160	115
63	15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



Solenoid valve type 165
Straight-through valve 2/2 ways
24V DC

Model:

- Function A, PN 0.5-6bar
- Material PVDF: with fusion socket metric
- Material PVC-U: with solvent cement socket metric
- Protection class IP 65
- Electrical connection: cable plug
- With manual override



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

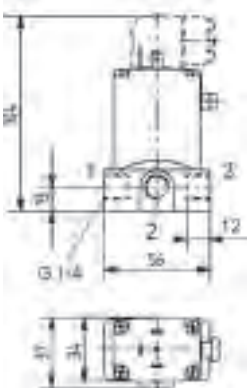
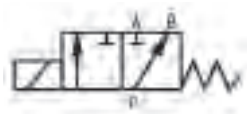
d (mm)	H4 (mm)	L2 (mm)	L5 (mm)	z (mm)	H2 (mm)	L (mm)	L1 (mm)	H (mm)	H3 (mm)	H1 (mm)	L4 (mm)
20	8	16	40	116	53	148	110	148	22	122	63
25	8	19	40	116	53	154	110	148	22	122	62
32	15	22	45	147	76	190	141	175	31	137	85
40	15	26	45	147	76	198	141	175	31	137	85
50	15	31	45	198	105	254	192	212	42	160	115
63	15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



Solenoid valve type 166
Distribution valve 3/2 ways

Model:

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



DN (mm)	D1_G (inch)	Voltage	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	Function	EPDM Code	FPM Code
4	1/4	24V AC/DC	0 - 4	5	F	199 166 201	199 166 206
4	1/4	230V 50Hz $\pm$ 10%	0 - 5	5	A	199 166 011	199 166 016

Ball valves electric type 107



Ball valve type 107 PVC-U 100-230V
With manual emergency override
With solvent cement sockets Inch BS

Model:

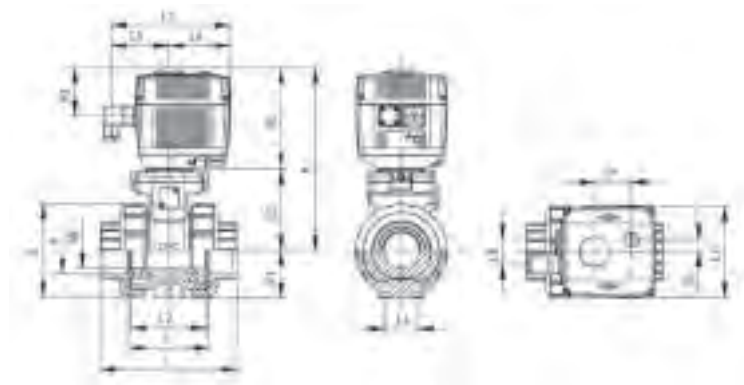
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	70	199 107 402	2.100	199 107 412	2.100
1/2	15	10	185	199 107 403	2.137	199 107 413	2.100
3/4	20	10	350	199 107 404	2.226	199 107 414	2.200
1	25	10	700	199 107 405	2.300	199 107 415	2.334
1 1/4	32	10	1000	199 107 406	2.600	199 107 416	2.600
1 1/2	40	10	1600	199 107 407	3.000	199 107 417	3.000
2	50	10	3100	199 107 408	3.597	199 107 418	3.800

Size (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	79	1	122	67	60
1/2	50	200	27	64	64	137	95	161	56	25	79	83	122	67	60
3/4	58	209	30	73	64	137	110	161	65	25	79	83	122	67	69
1	68	209	36	73	64	137	123	161	71	25	79	83	122	67	75
1 1/4	84	220	44	84	64	137	146	161	85	45	79	83	122	67	89
1 1/2	97	220	51	84	64	137	157	161	89	45	79	83	122	67	97
2	124	243	64	106	64	137	183	161	101	45	79	83	122	67	110





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

Model:

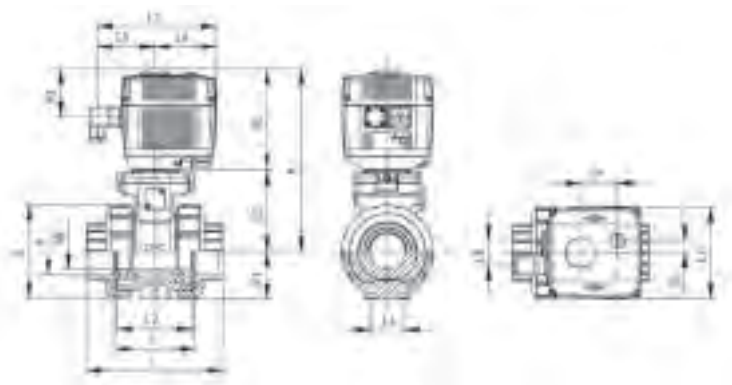
- Built on with electric actuator EA11
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 107 483	2.100	199 107 493	2.100
¾	20	10	350	199 107 484	2.200	199 107 494	2.200
1	25	10	700	199 107 485	2.300	199 107 495	2.300
1 ¼	32	10	1000	199 107 486	2.600	199 107 496	2.600
1 ½	40	10	1600	199 107 487	2.902	199 107 497	3.000
2	50	10	3100	199 107 488	3.660	199 107 498	3.800

Size (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)
½	50	200	27	64	64	137	95	161	56	25	79	83	122	67	64
¾	58	209	30	73	64	137	110	161	65	25	79	83	122	67	72
1	68	209	36	73	64	137	123	161	71	25	79	83	122	67	79
1 ¼	84	220	44	84	64	137	146	161	85	45	79	83	122	67	94
1 ½	97	220	51	84	64	137	157	161	89	45	79	83	122	67	95
2	124	243	64	106	64	137	183	161	101	45	79	83	122	67	107





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

Model:

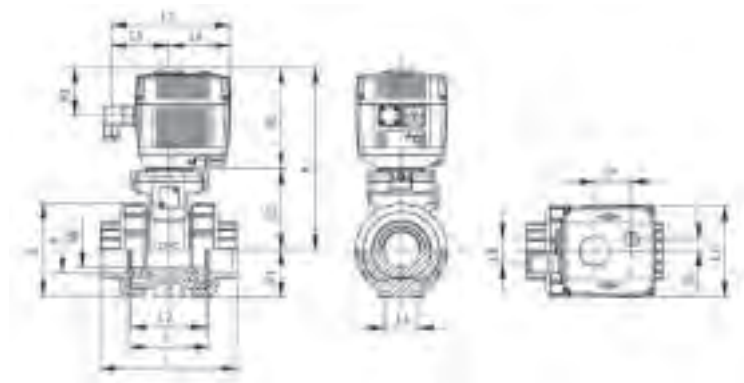
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<)
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	70	199 107 442	2.100	199 107 452	2.100
1/2	15	10	185	199 107 443	2.100	199 107 453	2.100
3/4	20	10	350	199 107 444	2.200	199 107 454	2.200
1	25	10	700	199 107 445	2.323	199 107 455	2.325
1 1/4	32	10	1000	199 107 446	2.600	199 107 456	2.600
1 1/2	40	10	1600	199 107 447	2.832	199 107 457	3.000
2	50	10	3100	199 107 448	3.800	199 107 458	3.800

Size (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	79	83	122	67	60
1/2	50	200	27	64	64	137	95	161	56	25	79	83	122	67	60
3/4	58	209	30	73	64	137	110	161	65	25	79	83	122	67	69
1	68	209	36	73	64	137	123	161	71	25	79	83	122	67	75
1 1/4	84	220	44	84	64	137	146	161	85	45	79	83	122	67	89
1 1/2	97	220	51	84	64	137	157	161	89	45	79	83	122	67	97
2	124	243	64	106	64	137	183	161	101	45	79	83	122	67	110





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

Model:

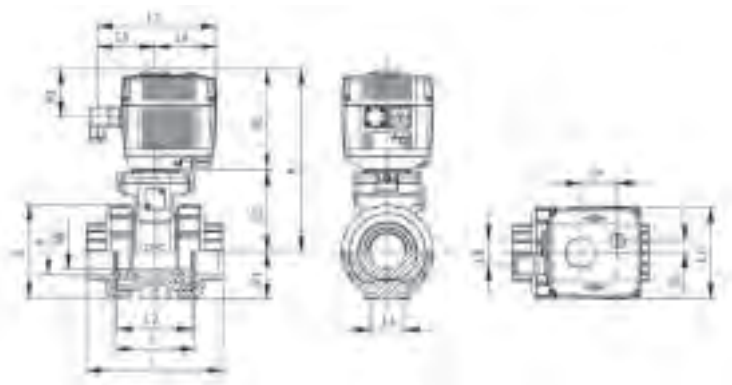
- Built on with electric actuator EA11
- Voltage 24 V AC/DC
- Control range 90°<
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 107 863	2.100	199 107 873	2.100
¾	20	10	350	199 107 864	2.200	199 107 874	2.200
1	25	10	700	199 107 865	2.300	199 107 875	2.300
1 ¼	32	10	1000	199 107 866	2.600	199 107 876	2.600
1 ½	40	10	1600	199 107 867	3.000	199 107 877	3.000
2	50	10	3100	199 107 868	3.800	199 107 878	3.800

Size (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)
½	50	200	27	64	64	137	95	161	56	25	79	83	122	67	64
¾	58	209	30	73	64	137	110	161	65	25	79	83	122	67	72
1	68	209	36	73	64	137	123	161	71	25	79	83	122	67	79
1 ¼	84	220	44	84	64	137	146	161	85	45	79	83	122	67	94
1 ½	97	220	51	84	64	137	157	161	89	45	79	83	122	67	95
2	124	243	64	106	64	137	183	161	101	45	79	83	122	67	107



Ball valves electric type 183



Ball valve type 183 PVC-U 100-230V
With manual emergency override
With solvent cement sockets Inch BS

Model:

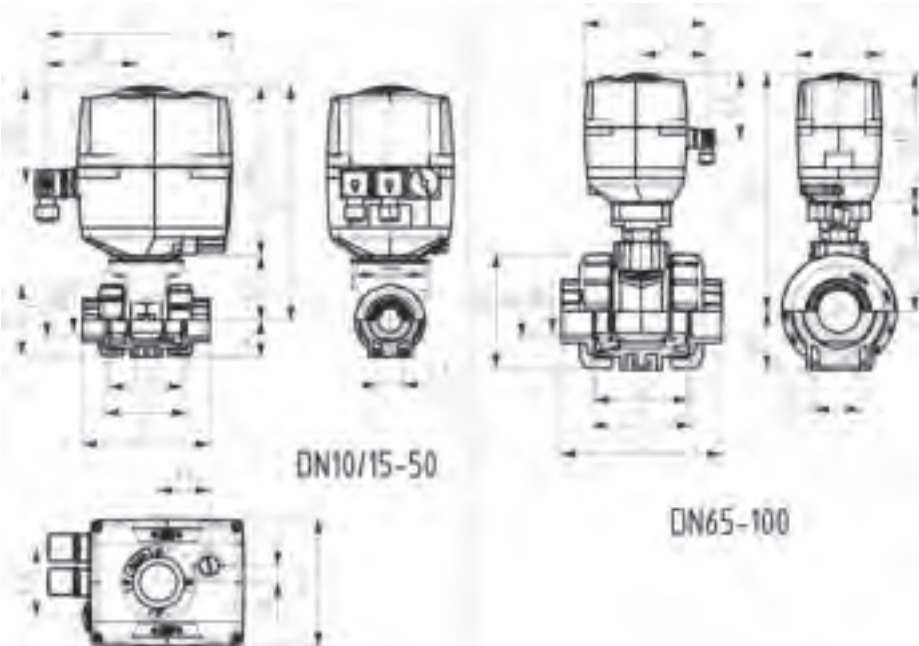
- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	70	EA25	199 183 002	2.100	199 183 012	2.100
1/2	15	10	185	EA25	199 183 003	2.100	199 183 013	2.100
3/4	20	10	350	EA25	199 183 004	2.200	199 183 014	2.200
1	25	10	700	EA25	199 183 005	2.661	199 183 015	2.300
1 1/4	32	10	1000	EA25	199 183 006	2.600	199 183 016	2.600
1 1/2	40	10	1600	EA25	199 183 007	3.000	199 183 017	3.000
2	50	10	3100	EA25	199 183 008	3.800	199 183 018	3.800
2 1/2	65	10	5000	EA45	199 183 009	7.400	199 183 019	7.400
3	80	10	7000	EA45	199 183 010	9.800	199 183 020	9.800
4	100	10	11000	EA120	199 183 011	13.900	199 183 021	13.900

Size (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	60
1/2	50	231	27	64	94	167	95	180	56	25	97	122	60
3/4	58	240	30	73	94	167	110	180	65	25	97	122	69
1	68	240	36	73	94	167	123	180	71	25	97	122	75
1 1/4	84	251	44	84	94	167	146	180	85	45	97	122	89
1 1/2	97	251	51	84	94	167	157	180	89	45	97	122	97
2	124	273	64	106	94	167	183	180	101	45	97	122	110
2 1/2	166	347	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





Ball valve type 183 PVC-U 24V
With manual emergency override
With solvent cement sockets Inch BS

Model:

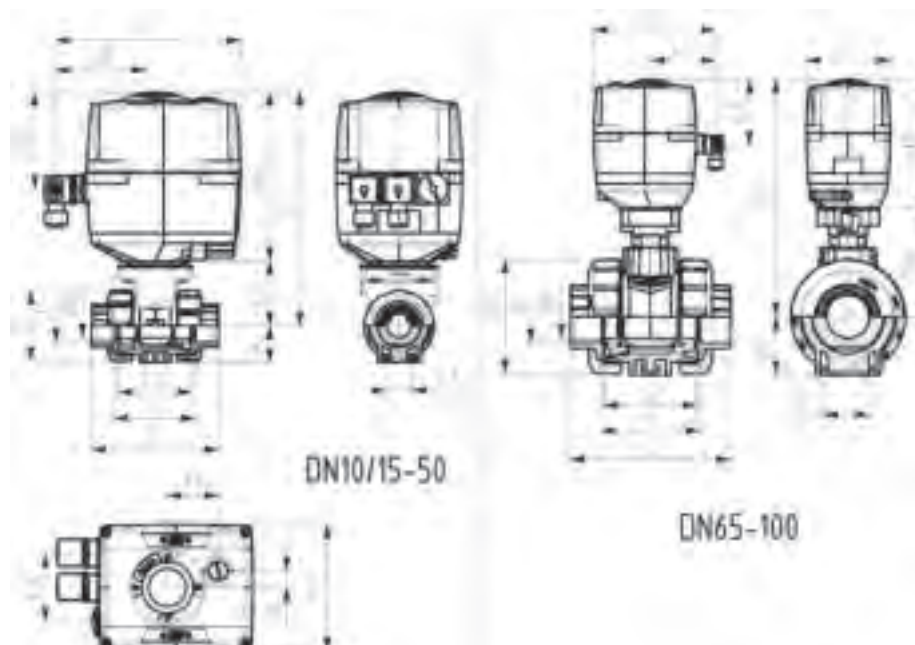
- Voltage 24 V AC/DC
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Size	DN	PN	kv-value	EA	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
			(l/min)					
3/8	10	10	70	EA25	199 183 042	2.100	199 183 052	2.100
1/2	15	10	185	EA25	199 183 043	2.100	199 183 053	2.100
3/4	20	10	350	EA25	199 183 044	2.200	199 183 054	2.200
1	25	10	700	EA25	199 183 045	2.642	199 183 055	2.300
1 1/4	32	10	1000	EA25	199 183 046	2.600	199 183 056	2.899
1 1/2	40	10	1600	EA25	199 183 047	3.000	199 183 057	3.000
2	50	10	3100	EA25	199 183 048	3.800	199 183 058	3.800
2 1/2	65	10	5000	EA45	199 183 049	7.400	199 183 059	7.400
3	80	10	7000	EA45	199 183 050	9.442	199 183 060	9.800
4	100	10	11000	EA120	199 183 051	13.900	199 183 061	13.900

Size	D	H	H1	H2	H3	H5	L	L1	L2	L4	L5	L7	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
3/8	50	231	27	64	94	167	92	180	56	25	97	122	60
1/2	50	231	27	64	94	167	95	180	56	25	97	122	60
3/4	58	240	30	73	94	167	110	180	65	25	97	122	69
1	68	240	36	73	94	167	123	180	71	25	97	122	75
1 1/4	84	251	44	84	94	167	146	180	85	45	97	122	89
1 1/2	97	251	51	84	94	167	157	180	89	45	97	122	97
2	124	273	64	106	94	167	183	180	101	45	97	122	110
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



Ball valves electric type 184



Ball valve type 184 PVC-U 100-230V
With manual emergency override
With solvent cement sockets JIS

Model:

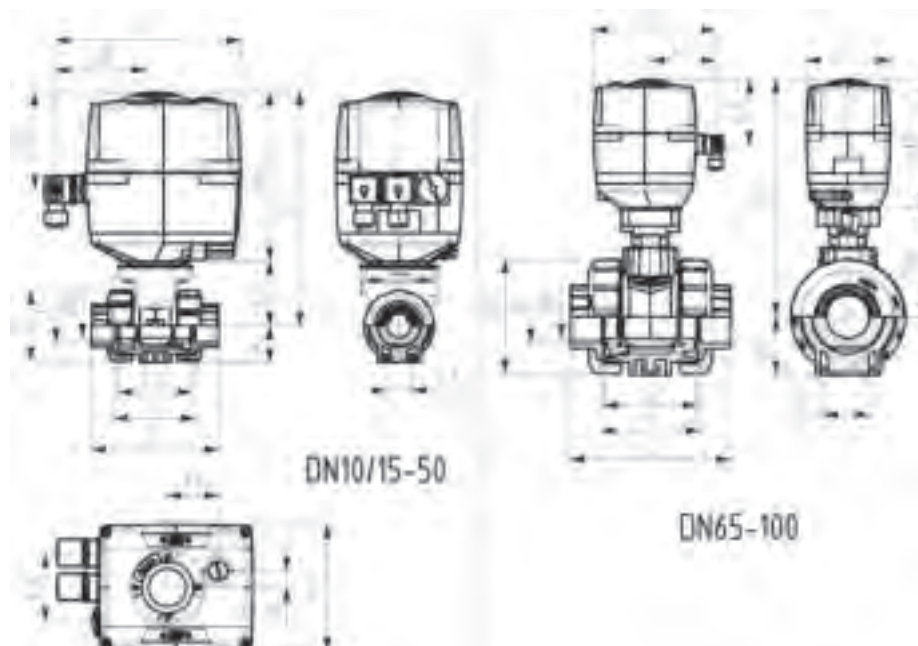
- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EA	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	EA25	199 184 003	2.100	199 184 013	2.100
¾	20	10	350	EA25	199 184 004	2.618	199 184 014	2.200
1	25	10	700	EA25	199 184 005	2.737	199 184 015	2.300
1 ¼	32	10	1000	EA25	199 184 006	2.600	199 184 016	2.600
1 ½	40	10	1600	EA25	199 184 007	3.238	199 184 017	3.000
2	50	10	3100	EA25	199 184 008	3.800	199 184 018	3.800
2 ½	65	10	5000	EA45	199 184 009	7.300	199 184 019	7.300
3	80	10	7000	EA45	199 184 010	9.800	199 184 020	9.800
4	100	10	11000	EA120	199 184 011	14.000	199 184 021	14.000

Size (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)
½	50	231	27	64	94	167	95	180	56	25	97	122	64
¾	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 ¼	84	251	44	84	94	167	146	180	85	45	97	122	94
1 ½	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 ½	166	347	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





Ball valve type 184 PVC-U 100-230V
With manual emergency override
With fixed flanges JIS

Model:

- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

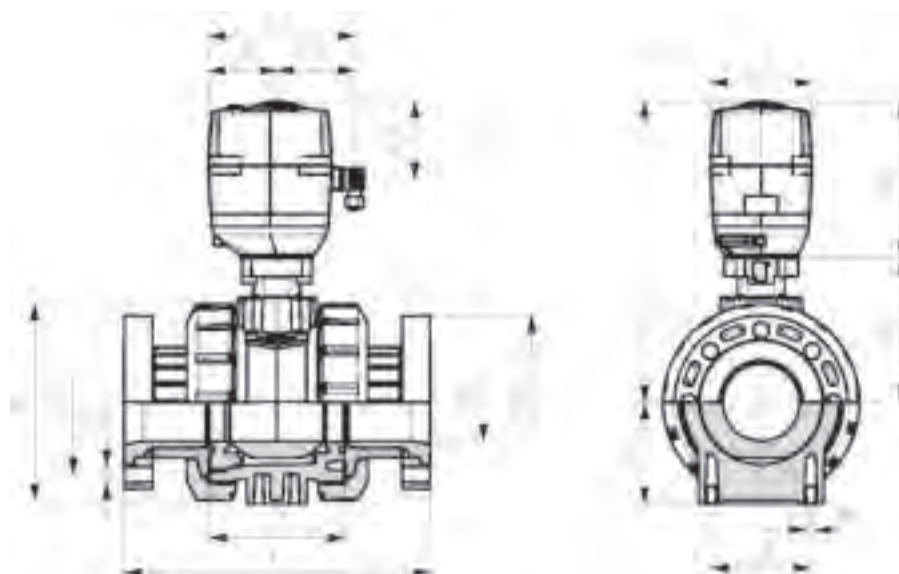
Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EA	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	EA25	199 184 043	2.300	199 184 053	2.300
¾	20	10	350	EA25	199 184 044	2.500	199 184 054	2.500
1	25	10	700	EA25	199 184 045	2.700	199 184 055	2.700
1 ¼	32	10	1000	EA25	199 184 046	3.200	199 184 056	3.200
1 ½	40	10	1600	EA25	199 184 047	3.700	199 184 057	3.700
2	50	10	3100	EA25	199 184 048	4.800	199 184 058	4.800

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
½	58	231	30	73	94	167	53	144	180	65	143	25	97	83	122
¾	50	240	27	64	94	167	48	124	180	56	172	25	97	83	122
1	68	240	36	73	94	167	58	154	180	71	187	25	97	83	122
1 ¼	84	251	44	84	94	167	70	174	180	85	190	45	97	83	122
1 ½	97	251	51	84	94	167	75	194	180	89	212	45	97	83	122
2	124	273	64	106	94	167	83	224	180	101	234	45	97	83	122

Size (inch)	L8 (mm)
½	66
¾	66
1	66
1 ¼	66
1 ½	66
2	66





Ball valve type 184 PVC-U 100-230V
With manual emergency override
With backing flanges PVC-U JIS

Model:

- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

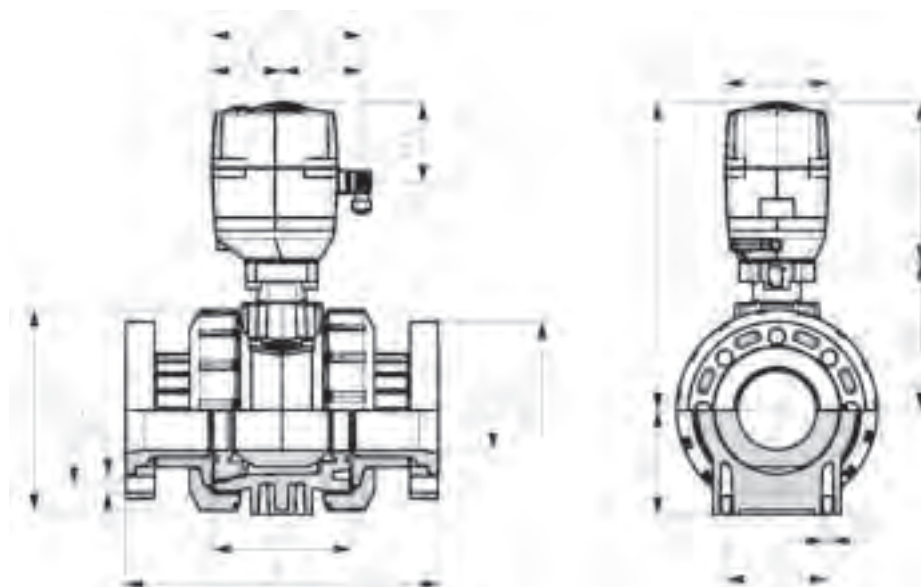
Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Size	DN	PN	kv-value	EA	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
			(l/min)					
2 ½	65	10	5000	EA45	199 184 349	9.800	199 184 359	9.800
3	80	10	7000	EA45	199 184 350	13.300	199 184 360	13.300
4	100	10	11000	EA120	199 184 351	18.900	199 184 361	18.900

Size	D	H	H1	H2	H3	H5	H6	L	L1	L2	L3	L4	L5	L6	L7
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
2 ½	166	346	85	156	94	190	88	284	180	136	290	70	98	83	122
3	200	358	105	168	94	190	93	300	180	141	310	70	98	83	122
4	238	365	123	175	94	190	105	340	180	164	350	120	98	83	122

Size	L8
(inch)	(mm)
2 ½	66
3	66
4	66





Ball valve type 184 PVC-U 24V
With manual emergency override
With solvent cement sockets JIS

Model:

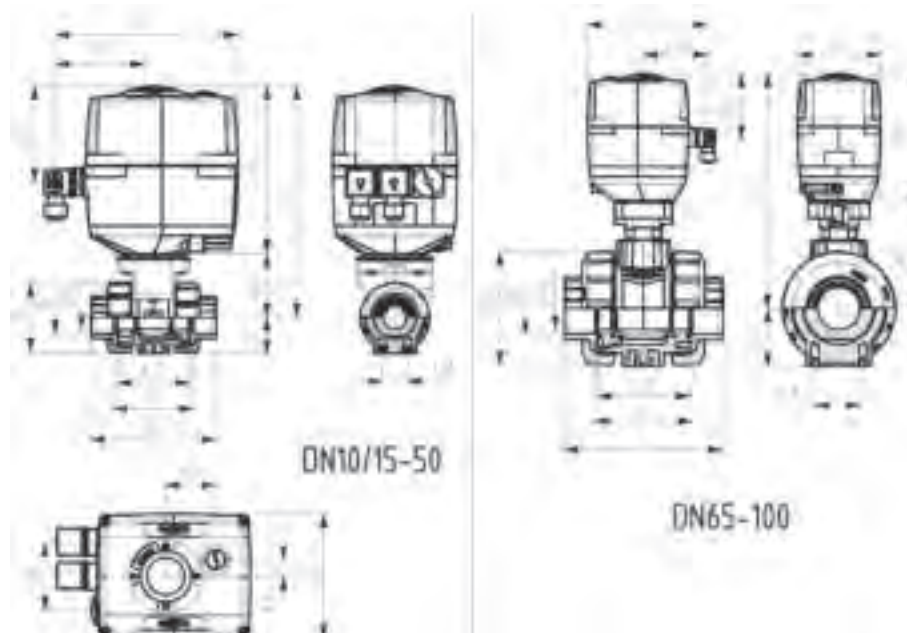
- Voltage 24 V AC/DC
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

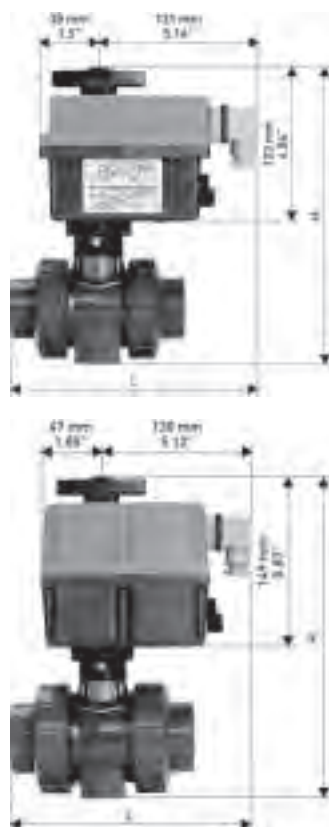
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Size (inch)	DN (mm)	PN (bar)	kv-100- value ($\Delta p=1$ bar) (l/min)	EA	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	EA25	199 184 023	2.100	199 184 033	2.100
¾	20	10	350	EA25	199 184 024	2.200	199 184 034	2.200
1	25	10	700	EA25	199 184 025	2.300	199 184 035	2.300
1 ¼	32	10	1000	EA25	199 184 026	2.600	199 184 036	2.600
1 ½	40	10	1600	EA25	199 184 027	3.000	199 184 037	3.000
2	50	10	3100	EA25	199 184 028	3.800	199 184 038	3.800
2 ½	65	10	5000	EA45	199 184 029	7.300	199 184 039	7.300
3	80	10	7000	EA45	199 184 030	9.800	199 184 040	9.800
4	100	10	11000	EA120	199 184 031	14.000	199 184 041	14.000

Size (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)
½	50	231	27	64	94	167	95	180	56	25	97	122	64
¾	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 ¼	84	251	44	84	94	167	146	180	85	45	97	122	94
1 ½	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 ½	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



Ball valves electric type 104



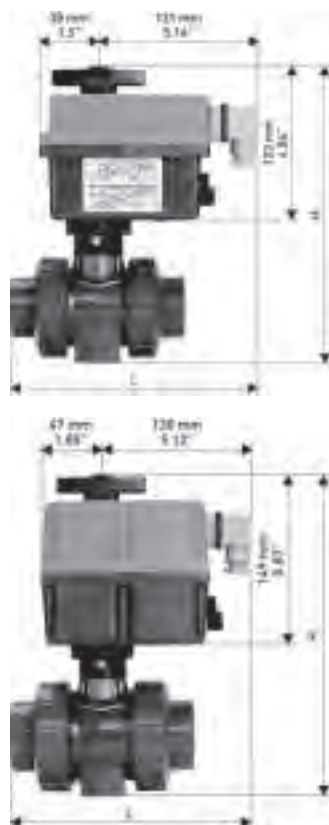
Ball valve type 104 PVC-U 100-230V With solvent cement sockets Inch BS

Model:

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

DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code
10	10	70	199 104 402	0.995	199 104 412
15	10	185	199 104 403	0.995	199 104 413
20	10	350	199 104 404	1.050	199 104 414
25	10	700	199 104 405	1.120	199 104 415
32	10	1000	199 104 406	1.290	199 104 416
40	10	1600	199 104 407	2.010	199 104 417
50	10	3100	199 104 408	2.395	199 104 418

H (mm)	L (mm)	Type of actuator	Inch (inch)	B (mm)
194	178.5	10Nm	3/8	50
194	178.5	10Nm	1/2	50
207	186.0	10Nm	3/4	58
217	192.5	10Nm	1	68
236	204.5	10Nm	1 1/4	84
275	208.5	20Nm	1 1/2	97
307	221.5	20Nm	2	124



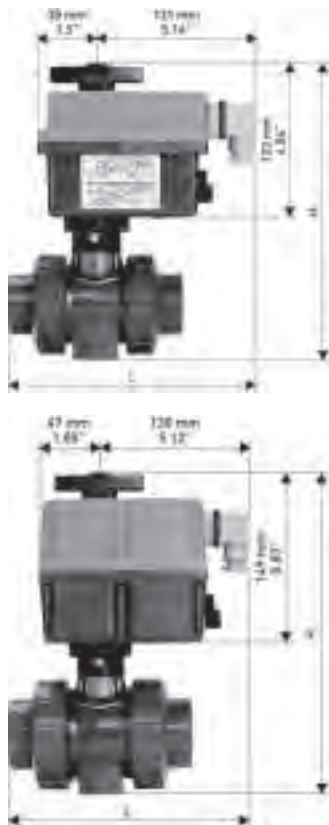
Ball valve type 104 PVC-U 100-230V With solvent cement sockets JIS

Model:

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

DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code
15	10	185	199 104 483	0.995	199 104 493
20	10	350	199 104 484	1.050	199 104 494
25	10	700	199 104 485	1.120	199 104 495
32	10	1000	199 104 486	1.290	199 104 496
40	10	1600	199 104 487	2.010	199 104 497
50	10	3100	199 104 488	2.395	199 104 498

H (mm)	L (mm)	Type of actuator	Inch (inch)	B (mm)
194	178.5	10Nm	1/2	50
204	186.0	10Nm	3/4	58
217	192.5	10Nm	1	68
236	204.5	10Nm	1 1/4	84
275	208.5	20Nm	1 1/2	97
307	221.5	20Nm	2	124



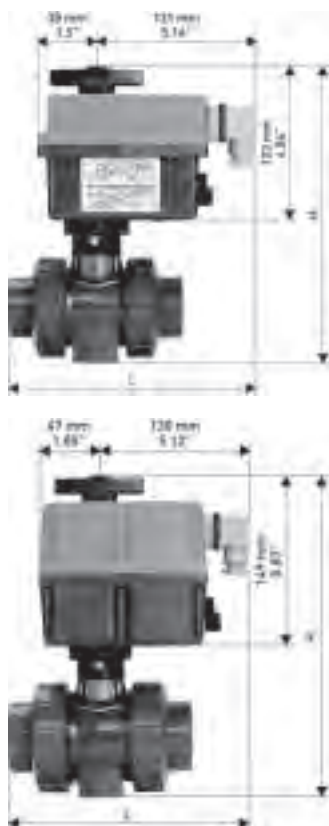
Ball valve type 104 PVC-U 24V With solvent cement sockets Inch BS

Model:

- Voltage 24 V AC/DC
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code
10	70		199 104 442	0.995	199 104 452
15	185		199 104 443	0.995	199 104 453
20	350		199 104 444	1.050	199 104 454
25	700		199 104 445	1.120	199 104 455
32	1000		199 104 446	1.290	199 104 456
40	1600		199 104 447	2.010	199 104 457
50	3100		199 104 448	2.395	199 104 458

H (mm)	L (mm)	Type of actuator	Inch (inch)	B (mm)
194	178.5	10Nm	3/8	50
194	178.5	10Nm	1/2	50
207	186.0	10Nm	3/4	58
217	192.5	10Nm	1	68
236	204.5	10Nm	1 1/4	84
275	208.5	20Nm	1 1/2	97
307	221.5	20Nm	2	124



Ball valve type 104 PVC-U 24V With solvent cement sockets JIS

Model:

- Voltage 24 V AC/DC
- Control range 90°<
- For easy installation and removal
- Integrated stainless steel mounting inserts

DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code
15	10	185	199 104 863	0.995	199 104 873
20	10	350	199 104 864	1.050	199 104 874
25	10	700	199 104 865	1.120	199 104 875
32	10	1000	199 104 866	1.290	199 104 876
40	10	1600	199 104 867	2.010	199 104 877
50	10	3100	199 104 868	2.395	199 104 878

H (mm)	L (mm)	Type of actuator	Inch (inch)	B (mm)
194	178.5	10Nm	1/2	50
207	186.0	10Nm	3/4	58
217	192.5	10Nm	1	68
236	204.5	10Nm	1 1/4	84
275	208.5	20Nm	1 1/2	97
307	221.5	20Nm	2	124

Ball valves pneumatic

Ball valves pneumatic type 234



Ball valve type 234 PVC-U FC (Fail safe to close)
With manual override
With solvent cement sockets Inch BS

Model:

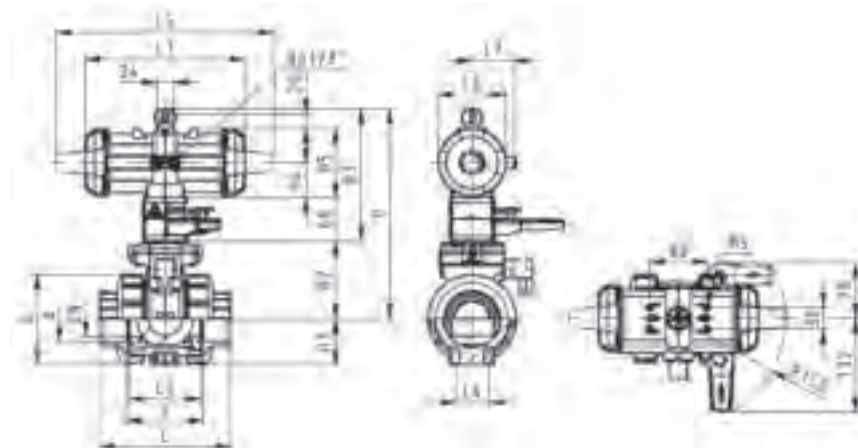
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (L/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	70	199 234 002	1.500	199 234 012	1.500
1/2	15	10	185	199 234 003	1.500	199 234 013	1.500
3/4	20	10	350	199 234 004	1.362	199 234 014	1.600
1	25	10	700	199 234 005	1.468	199 234 015	1.469
1 1/4	32	10	1000	199 234 006	2.800	199 234 016	2.800
1 1/2	40	10	1600	199 234 007	3.100	199 234 017	3.100
2	50	10	3100	199 234 008	4.000	199 234 018	3.452

Size (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	60
1/2	50	159	27	62	168	40	77	95	194	56	25	261	76	48	60
3/4	58	168	30	71	168	40	77	110	194	65	25	261	76	48	69
1	68	168	36	71	168	40	77	123	194	71	25	261	76	48	75
1 1/4	84	202	44	84	187	51	99	146	224	85	45	305	95	59	89
1 1/2	97	202	51	84	187	51	99	157	224	89	45	305	95	59	97
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	110





Ball valve type 234 PVC-U F0 (Fail safe to open)
With manual override
With solvent cement sockets Inch BS

Model:

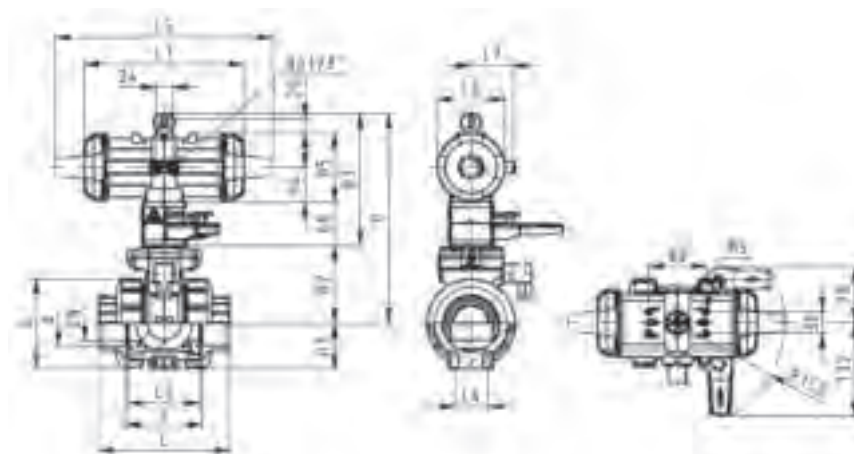
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	70	199 234 042	1.500	199 234 052	1.500
1/2	15	10	185	199 234 043	1.500	199 234 053	1.500
3/4	20	10	350	199 234 044	1.600	199 234 054	1.600
1	25	10	700	199 234 045	1.700	199 234 055	1.700
1 1/4	32	10	1000	199 234 046	2.800	199 234 056	2.800
1 1/2	40	10	1600	199 234 047	3.100	199 234 057	3.100
2	50	10	3100	199 234 048	4.000	199 234 058	4.000

Size (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	60
1/2	50	159	27	62	168	40	77	95	194	56	25	261	76	48	60
3/4	58	168	30	71	168	40	77	110	194	65	25	261	76	48	69
1	68	168	36	71	168	40	77	123	194	71	25	261	76	48	75
1 1/4	84	202	44	84	187	51	99	146	224	85	45	305	95	59	89
1 1/2	97	202	51	84	187	51	99	157	224	89	45	305	95	59	97
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	110





Ball valve type 234 PVC-U DA (Double acting)
With manual override
With solvent cement sockets Inch BS

Model:

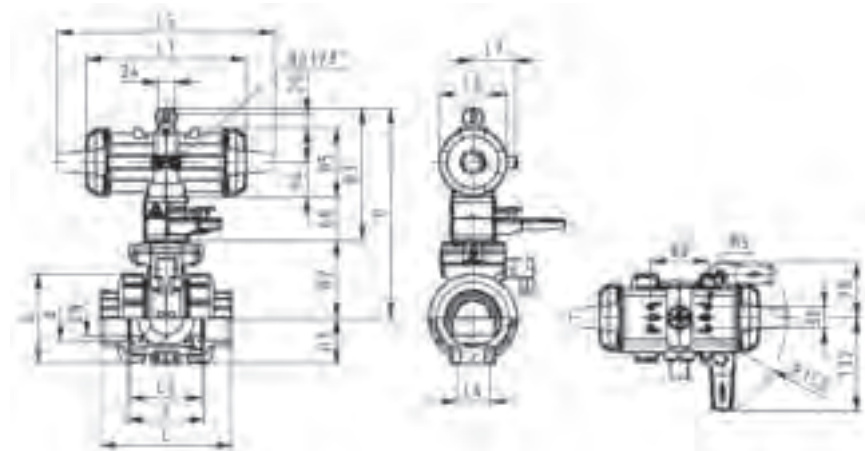
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (L/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	70	199 234 082	1.500	199 234 092	1.500
1/2	15	10	185	199 234 083	1.500	199 234 093	1.500
3/4	20	10	350	199 234 084	1.600	199 234 094	1.600
1	25	10	700	199 234 085	1.237	199 234 095	1.700
1 1/4	32	10	1000	199 234 086	2.800	199 234 096	2.800
1 1/2	40	10	1600	199 234 087	3.100	199 234 097	3.100
2	50	10	3100	199 234 088	4.000	199 234 098	4.000

Size (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	60
1/2	50	159	27	62	168	40	77	95	194	56	25	261	76	48	60
3/4	58	168	30	71	168	40	77	110	194	65	25	261	76	48	69
1	68	168	36	71	168	40	77	123	194	71	25	261	76	48	75
1 1/4	84	202	44	84	187	51	99	146	224	85	45	305	95	59	89
1 1/2	97	202	51	84	187	51	99	157	224	89	45	305	95	59	97
2	124	225	64	106	187	51	99	183	224	101	45	305	95	59	110





DN10/15 - 50



Ball valve type 234 PVC-U FC (Fail safe to close)

Without manual override

With solvent cement sockets Inch BS

Model:

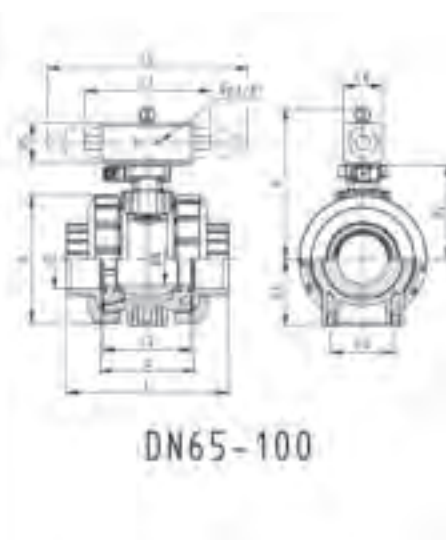
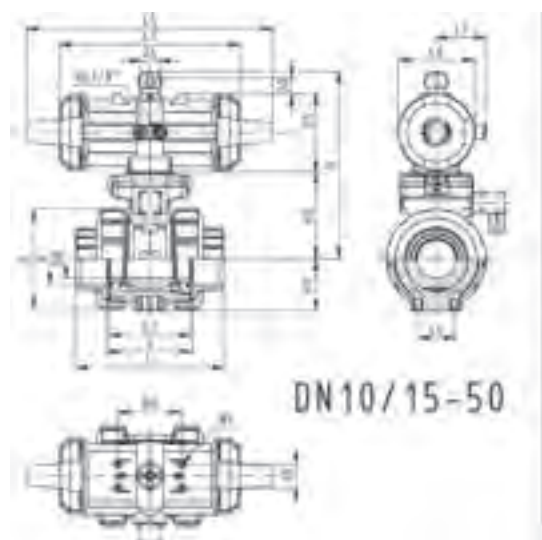
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
3/8	10	10	70	199 234 122	1.200	199 234 132	1.200
1/2	15	10	185	199 234 123	1.200	199 234 133	1.200
3/4	20	10	350	199 234 124	1.300	199 234 134	1.300
1	25	10	700	199 234 125	1.400	199 234 135	1.400
1 1/4	32	10	1000	199 234 126	2.500	199 234 136	2.500
1 1/2	40	10	1600	199 234 127	2.800	199 234 137	2.800
2	50	10	3100	199 234 128	3.700	199 234 138	3.700
2 1/2	65	10	5000	199 234 129	7.800	199 234 139	7.800
3	80	10	7000	199 234 130	10.200	199 234 140	10.200
4	100	10	11000	199 234 131	15.300	199 234 141	15.300

Size	D	H	H1	H2	H5	L	L1	L2	L4	L5	L6	L7	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
3/8	50	159	27	62	77	92	194	56	25	261	76	48	60
1/2	50	159	27	62	77	95	194	56	25	261	76	48	60
3/4	58	168	30	71	77	110	194	65	25	261	76	48	69
1	68	168	36	71	77	123	194	71	25	261	76	48	75
1 1/4	84	202	44	84	99	146	224	85	45	305	95	59	89
1 1/2	97	202	51	84	99	157	224	89	45	305	95	59	97
2	124	225	64	106	99	183	224	101	45	305	95	59	110
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



Ball valve type 234 PVC-U F0 (Fail safe to open)

Without manual override

With solvent cement sockets Inch BS

Model:

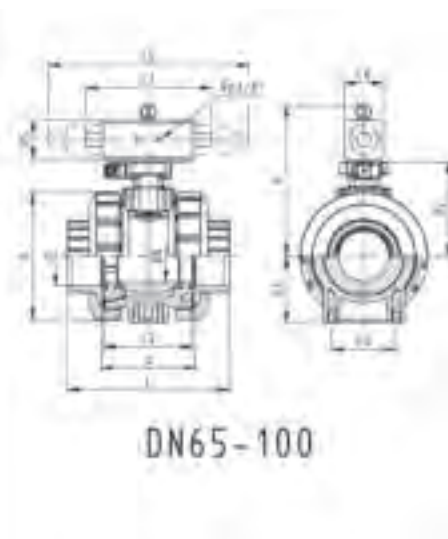
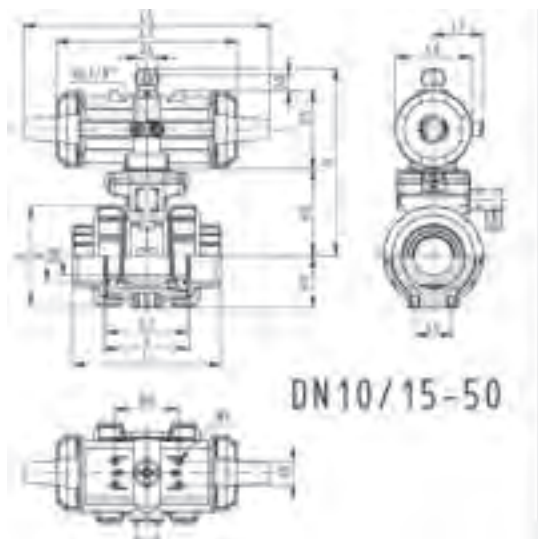
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	70	199 234 162	1.200	199 234 172	1.200
1/2	15	10	185	199 234 163	1.200	199 234 173	1.200
3/4	20	10	350	199 234 164	1.300	199 234 174	1.300
1	25	10	700	199 234 165	1.400	199 234 175	1.400
1 1/4	32	10	1000	199 234 166	2.500	199 234 176	2.500
1 1/2	40	10	1600	199 234 167	2.800	199 234 177	2.800
2	50	10	3100	199 234 168	3.700	199 234 178	3.700
2 1/2	65	10	5000	199 234 169	7.800	199 234 179	7.800
3	80	10	7000	199 234 170	10.200	199 234 180	10.200
4	100	10	11000	199 234 171	15.300	199 234 181	15.300

Size (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	60
1/2	50	159	27	62	77	95	194	56	25	261	76	48	60
3/4	58	168	30	71	77	110	194	65	25	261	76	48	69
1	68	168	36	71	77	123	194	71	25	261	76	48	75
1 1/4	84	202	44	84	99	146	224	85	45	305	95	59	89
1 1/2	97	202	51	84	99	157	224	89	45	305	95	59	97
2	124	225	64	106	99	183	224	101	45	305	95	59	110
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



Ball valve type 234 PVC-U DA (Double acting)

Without manual override

With solvent cement sockets Inch BS

Model:

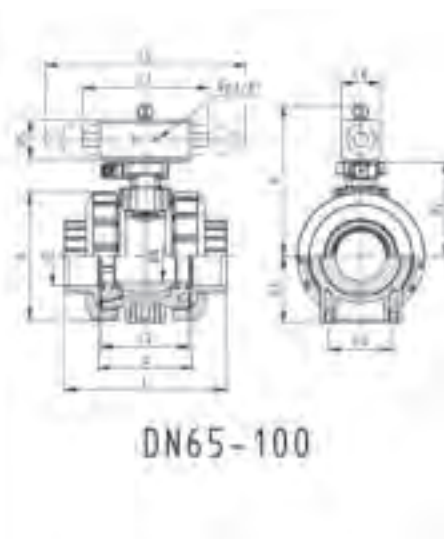
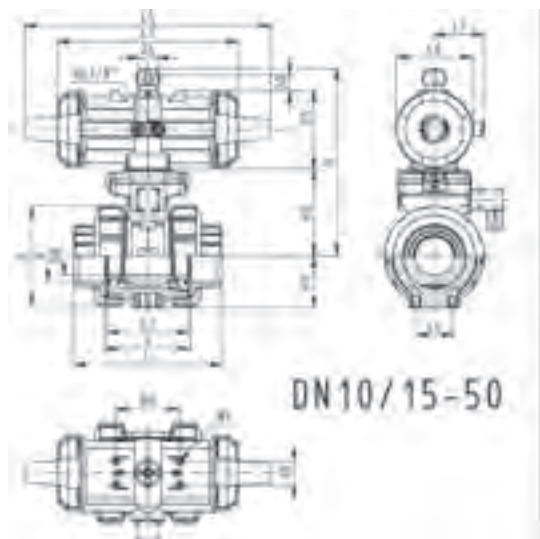
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
3/8	10	10	70	199 234 202	1.200	199 234 212	1.200
1/2	15	10	185	199 234 203	1.200	199 234 213	1.200
3/4	20	10	350	199 234 204	1.300	199 234 214	1.300
1	25	10	700	199 234 205	1.400	199 234 215	1.400
1 1/4	32	10	1000	199 234 206	2.500	199 234 216	2.500
1 1/2	40	10	1600	199 234 207	2.800	199 234 217	2.800
2	50	10	3100	199 234 208	3.700	199 234 218	3.700
2 1/2	65	10	5000	199 234 209	6.600	199 234 219	6.600
3	80	10	7000	199 234 210	9.600	199 234 220	9.600
4	100	10	11000	199 234 211	13.600	199 234 221	13.600

Size	D	H	H1	H2	H5	L	L1	L2	L4	L5	L6	L7	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
3/8	50	159	27	62	77	92	194	56	25	261	76	48	60
1/2	50	159	27	62	77	95	194	56	25	261	76	48	60
3/4	58	168	30	71	77	110	194	65	25	261	76	48	69
1	68	168	36	71	77	123	194	71	25	261	76	48	75
1 1/4	84	202	44	84	99	146	224	85	45	305	95	59	89
1 1/2	97	202	51	84	99	157	224	89	45	305	95	59	97
2	124	225	64	106	99	183	224	101	45	305	95	59	110
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



Ball valves pneumatic type 235



Ball valve type 235 PVC-U FC (Fail safe to close)
With manual override
With solvent cement sockets JIS

Model:

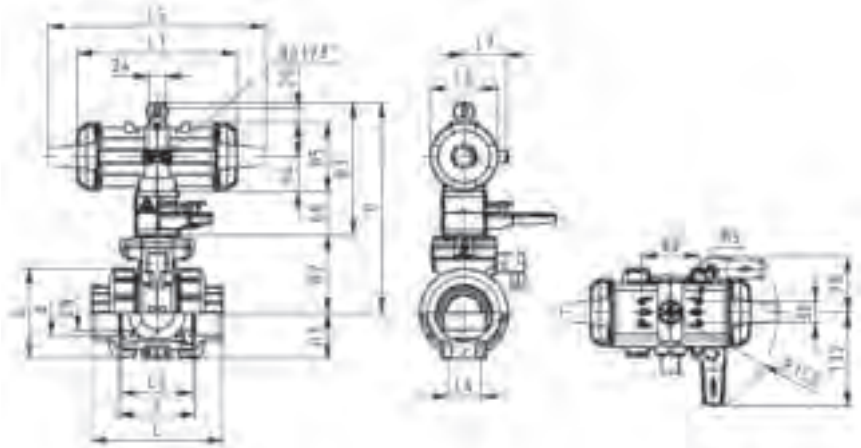
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
½	15	10	185	199 235 003	1.500	199 235 013	1.500
¾	20	10	350	199 235 004	1.600	199 235 014	1.600
1	25	10	700	199 235 005	1.700	199 235 015	1.700
1 ¼	32	10	1000	199 235 006	2.800	199 235 016	2.800
1 ½	40	10	1600	199 235 007	3.100	199 235 017	3.100
2	50	10	3100	199 235 008	4.000	199 235 018	4.000

Size	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)
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





Ball valve type 235 PVC-U FC (Fail safe to close)

With manual override

With threaded sockets Rc

Model:

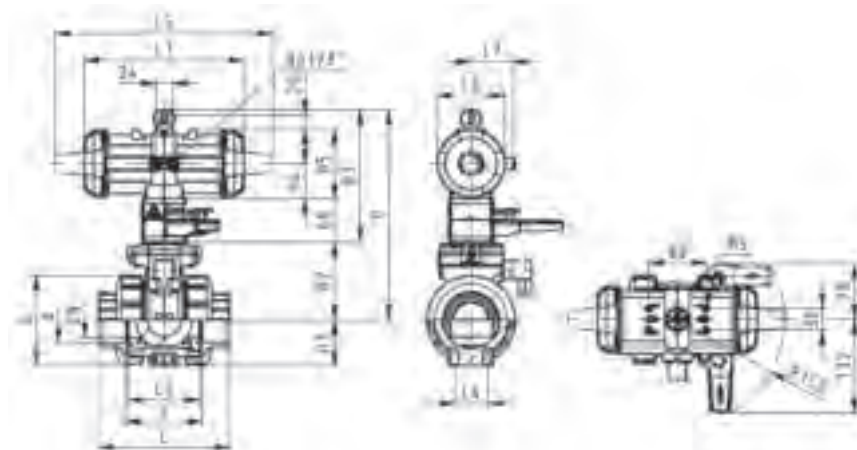
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 543	1.500	199 235 553	1.500
¾	20	10	350	199 235 544	1.600	199 235 554	1.600
1	25	10	700	199 235 545	1.700	199 235 555	1.700
1 ¼	32	10	1000	199 235 546	2.800	199 235 556	2.800
1 ½	40	10	1600	199 235 547	3.100	199 235 557	3.100
2	50	10	3100	199 235 548	4.000	199 235 558	4.000

Size (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)
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





Ball valve type 235 PVC-U FC (Fail safe to close)

With manual override

With fixed flanges JIS

Model:

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

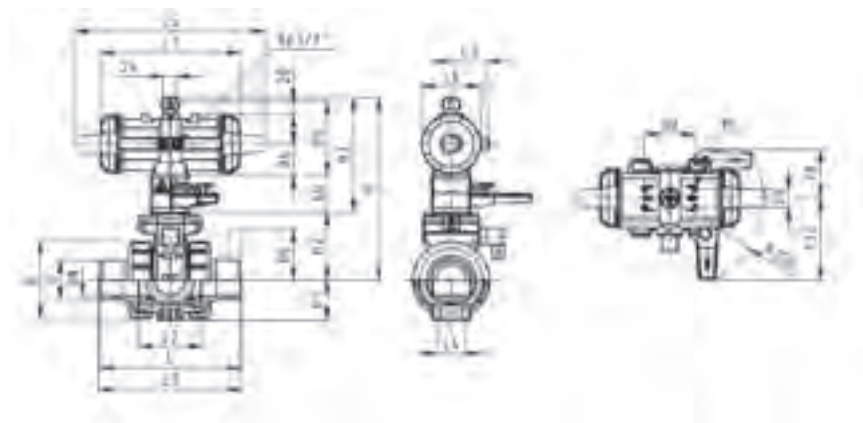
Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 123	1.700	199 235 133	1.700
¾	20	10	350	199 235 124	1.900	199 235 134	1.900
1	25	10	700	199 235 125	2.100	199 235 135	2.100
1 ¼	32	10	1000	199 235 126	3.400	199 235 136	3.400
1 ½	40	10	1600	199 235 127	3.800	199 235 137	3.800
2	50	10	3100	199 235 128	4.900	199 235 138	4.900

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
½	50	159	27	62	168	40	77	48	124	194	56	143	25	261	76
¾	58	168	30	71	168	40	77	53	144	194	65	172	25	261	76
1	68	168	36	71	168	40	77	58	154	194	71	187	25	261	76
1 ¼	84	202	44	84	187	51	99	70	174	224	85	190	45	305	95
1 ½	97	202	51	84	187	51	99	75	194	224	89	212	45	305	95
2	124	225	64	106	187	51	99	83	224	224	101	234	45	305	95

Size (inch)	L7 (mm)
½	48
¾	48
1	48
1 ¼	59
1 ½	59
2	59





Ball valve type 235 PVC-U F0 (Fail safe to open)
With manual override
With solvent cement sockets JIS

Model:

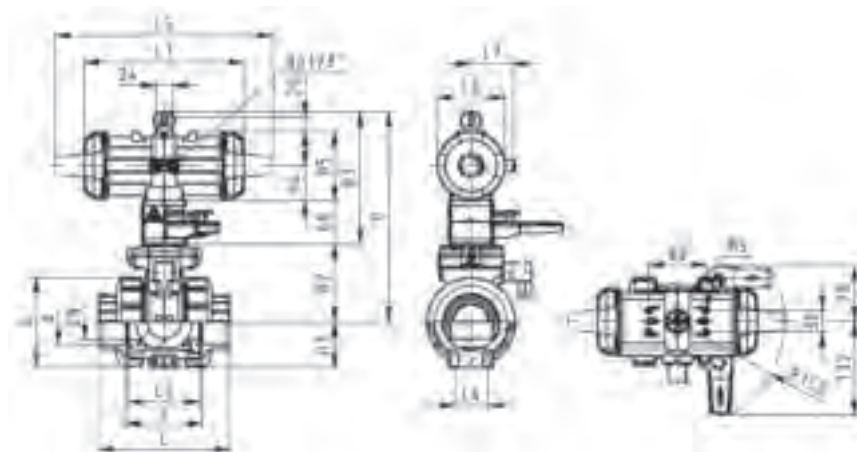
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90° < 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 023	1.500	199 235 033	1.500
¾	20	10	350	199 235 024	1.600	199 235 034	1.600
1	25	10	700	199 235 025	1.700	199 235 035	1.700
1 ¼	32	10	1000	199 235 026	2.800	199 235 036	2.800
1 ½	40	10	1600	199 235 027	3.100	199 235 037	3.100
2	50	10	3100	199 235 028	4.000	199 235 038	4.000

Size (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)
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





Ball valve type 235 PVC-U F0 (Fail safe to open)

With manual override

With threaded sockets Rc

Model:

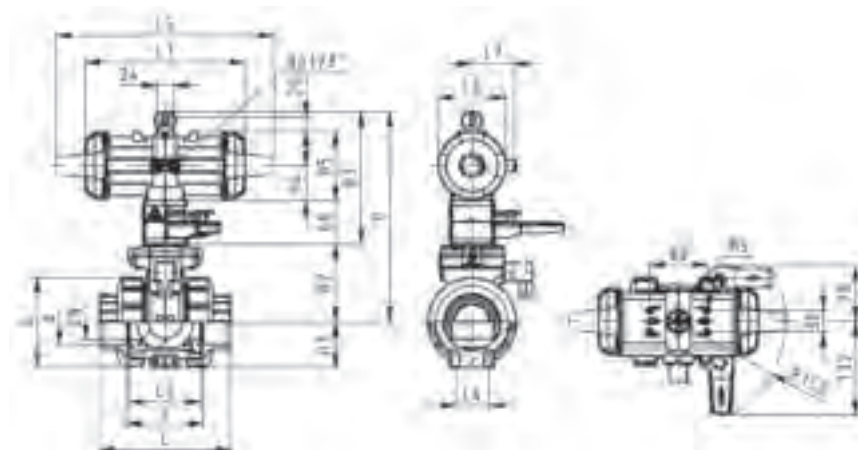
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 563	1.500	199 235 573	1.500
¾	20	10	350	199 235 564	1.600	199 235 574	1.600
1	25	10	700	199 235 565	1.700	199 235 575	1.700
1 ¼	32	10	1000	199 235 566	2.800	199 235 576	2.800
1 ½	40	10	1600	199 235 567	3.100	199 235 577	3.100
2	50	10	3100	199 235 568	4.000	199 235 578	4.000

Size (inch)	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)
½	50	159	27	62	168	40	77	95	194	56	130	25	261	76	48
¾	58	168	30	71	168	40	77	110	194	65	150	25	261	76	48
1	68	168	36	71	168	40	77	123	194	71	160	25	261	76	48
1 ¼	84	202	44	84	187	51	99	146	224	85	180	45	305	95	59
1 ½	97	202	51	84	187	51	99	157	224	89	200	45	305	95	59
2	124	225	64	106	187	51	99	183	224	101	230	45	305	95	59





Ball valve type 235 PVC-U F0 (Fail safe to open)
With manual override
With fixed flanges JIS

Model:

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

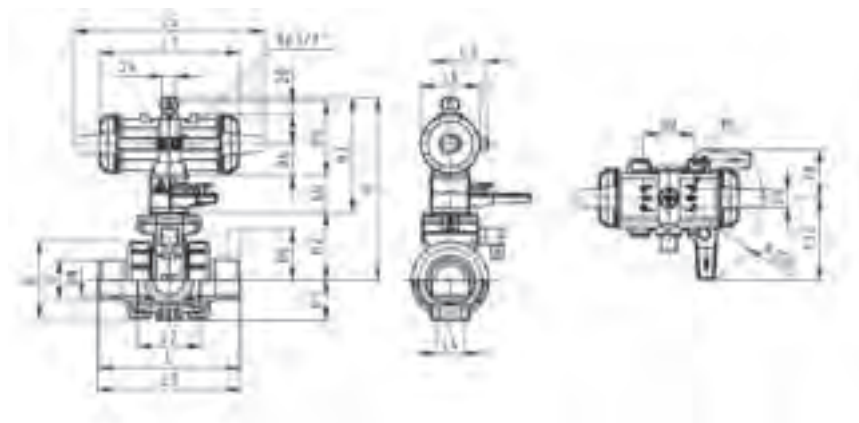
Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 143	1.700	199 235 153	1.700
¾	20	10	350	199 235 144	1.900	199 235 154	1.900
1	25	10	700	199 235 145	2.100	199 235 155	2.100
1 ¼	32	10	1000	199 235 146	3.400	199 235 156	3.400
1 ½	40	10	1600	199 235 147	3.800	199 235 157	3.800
2	50	10	3100	199 235 148	4.900	199 235 158	4.900

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
½	50	159	27	62	168	40	77	48	124	194	56	143	25	261	76
¾	58	168	30	71	168	40	77	53	144	194	65	171	25	261	76
1	68	168	36	71	168	40	77	58	154	194	71	187	25	261	76
1 ¼	84	202	44	84	187	51	99	70	174	224	85	190	45	305	95
1 ½	97	202	51	84	187	51	99	75	194	224	89	212	45	305	95
2	124	225	64	106	187	51	99	83	224	224	101	234	45	305	95

Size (inch)	L7 (mm)
½	48
¾	48
1	48
1 ¼	59
1 ½	59
2	59





Ball valve type 235 PVC-U DA (Double acting)

With manual override

With solvent cement sockets JIS

Model:

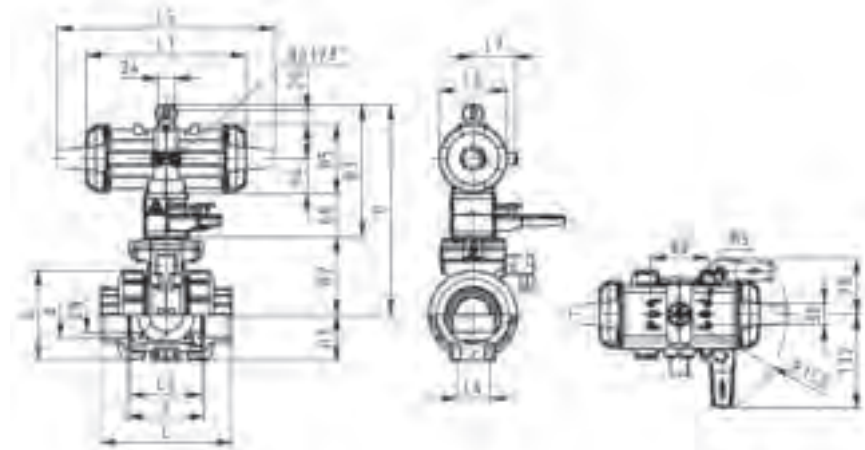
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 043	1.500	199 235 053	1.500
¾	20	10	350	199 235 044	1.600	199 235 054	1.600
1	25	10	700	199 235 045	1.700	199 235 055	1.700
1 ¼	32	10	1000	199 235 046	2.800	199 235 056	2.800
1 ½	40	10	1600	199 235 047	3.100	199 235 057	3.100
2	50	10	3100	199 235 048	4.000	199 235 058	4.000

Size (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)
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





Ball valve type 235 PVC-U DA (Double acting)

With manual override

With threaded sockets Rc

Model:

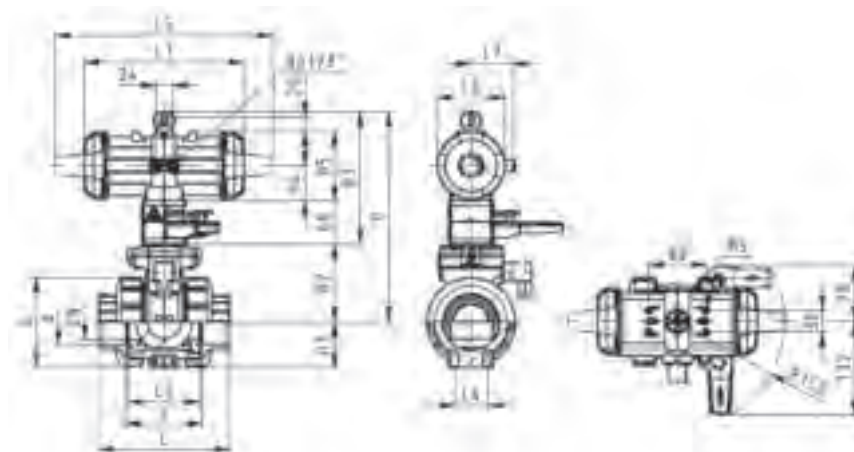
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 583	1.500	199 235 593	1.500
¾	20	10	350	199 235 584	1.600	199 235 594	1.600
1	25	10	700	199 235 585	1.700	199 235 595	1.700
1 ¼	32	10	1000	199 235 586	2.800	199 235 596	2.800
1 ½	40	10	1600	199 235 587	3.100	199 235 597	3.100
2	50	10	3100	199 235 588	4.000	199 235 598	4.000

Size (inch)	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)
½	50	159	27	62	168	40	77	95	194	56	130	25	261	76	48
¾	58	168	30	71	168	40	77	110	194	65	150	25	261	76	48
1	68	168	36	71	168	40	77	123	194	71	160	25	261	76	48
1 ¼	84	202	44	84	187	51	99	146	224	85	180	45	305	95	59
1 ½	97	202	51	84	187	51	99	157	224	89	200	45	305	95	59
2	124	225	64	106	187	51	99	183	224	101	230	45	305	95	59





Ball valve type 235 PVC-U DA (Double acting)
With manual override
With fixed flanges JIS

Model:

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

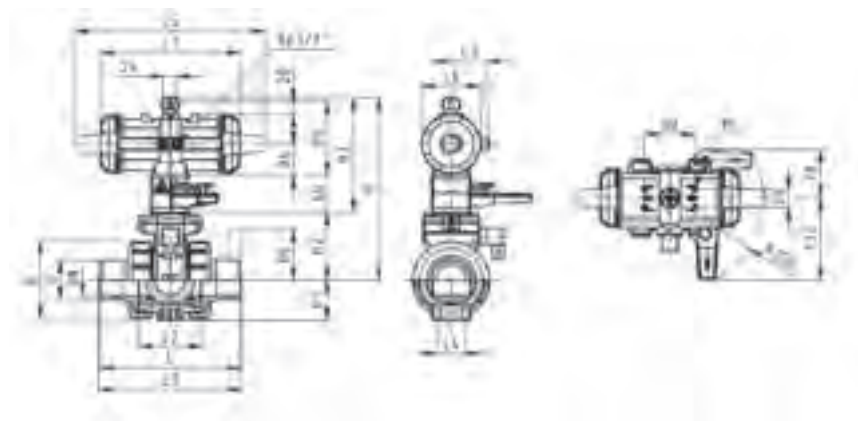
Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 163	1.700	199 235 173	1.700
¾	20	10	350	199 235 164	1.900	199 235 174	1.900
1	25	10	700	199 235 165	2.100	199 235 175	2.100
1 ¼	32	10	1000	199 235 166	3.400	199 235 176	3.400
1 ½	40	10	1600	199 235 167	3.800	199 235 177	3.800
2	50	10	3100	199 235 168	4.900	199 235 178	4.900

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
½	50	159	27	62	168	40	77	48	124	194	56	143	25	261	76
¾	58	168	30	71	168	40	77	53	144	194	65	171	25	261	76
1	68	168	36	71	168	40	77	58	154	194	71	187	25	261	76
1 ¼	84	202	44	84	187	51	99	70	174	224	85	190	45	305	95
1 ½	97	202	51	84	187	51	99	75	194	224	89	212	45	305	95
2	124	225	64	106	187	51	99	83	224	224	101	234	45	305	95

Size (inch)	L7 (mm)
½	48
¾	48
1	48
1 ¼	59
1 ½	59
2	59





DN10/15 - 50



Ball valve type 235 PVC-U FC (Fail safe to close)

Without manual override

With solvent cement sockets JIS

Model:

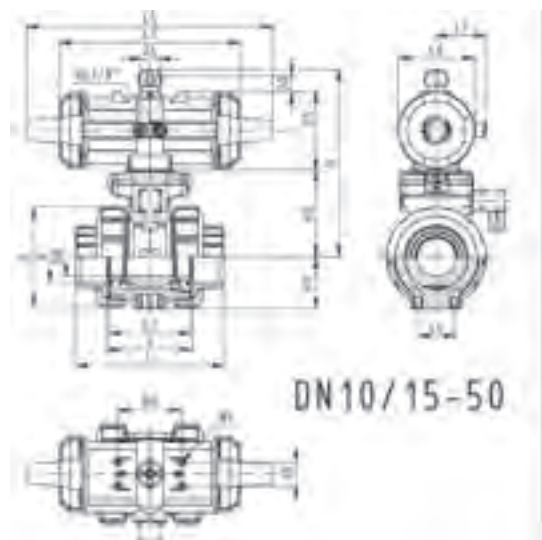
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

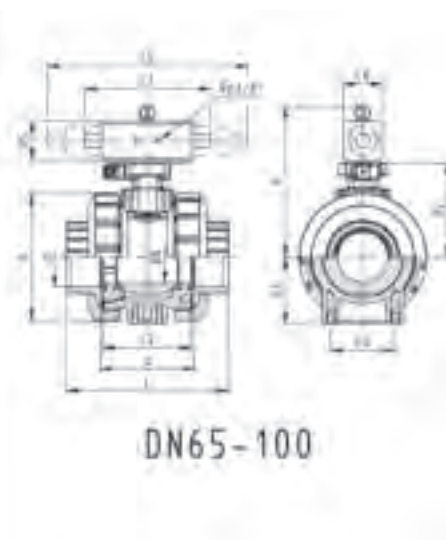
- Individual configuration of the valve (see diagram)

Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
½	15	10	185	199 235 063	1.200	199 235 073	1.200
¾	20	10	350	199 235 064	1.300	199 235 074	1.300
1	25	10	700	199 235 065	1.400	199 235 075	1.400
1 ¼	32	10	1000	199 235 066	2.500	199 235 076	2.500
1 ½	40	10	1600	199 235 067	2.800	199 235 077	2.800
2	50	10	3100	199 235 068	3.700	199 235 078	3.700
2 ½	65	10	5000	199 235 069	7.700	199 235 079	7.700
3	80	10	7000	199 235 070	10.200	199 235 080	10.200
4	100	10	11000	199 235 071	15.400	199 235 081	15.400

Size	D	H	H1	H2	H5	L	L1	L2	L4	L5	L6	L7	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
½	50	159	27	62	77	95	194	56	25	261	76	48	64
¾	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 ¼	84	202	44	84	99	146	224	85	45	305	95	59	94
1 ½	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 ½	144	262	85	156	70	233		136	70	276	65		144
3	151	281	105	168	78	254		141	70	341	72		151
4	174	292	123	175	86	301		164	120	369	80		174



DN10/15-50



DN65-100



DN10/15 - 50



Ball valve type 235 PVC-U FC (Fail safe to close)

Without manual override

With threaded sockets Rc

Model:

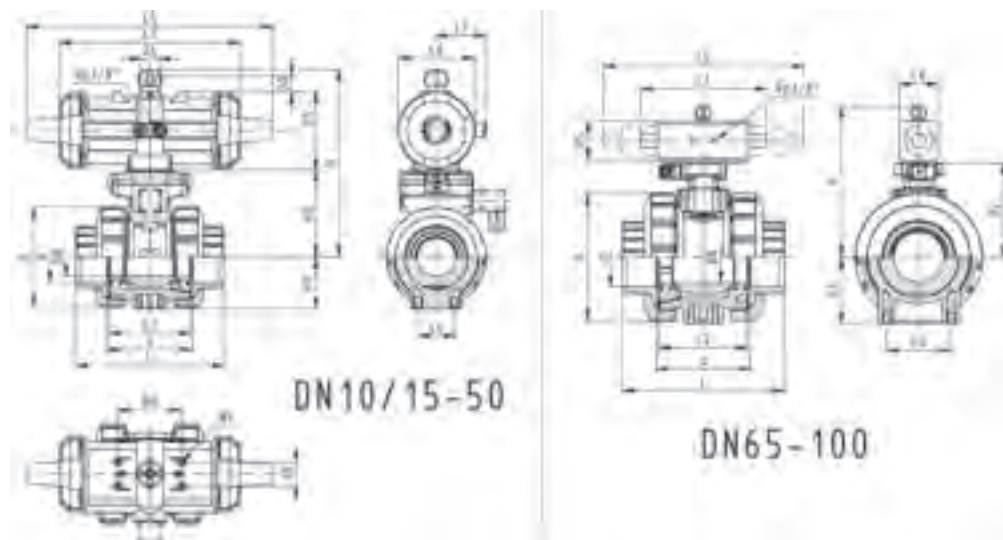
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 603	1.200	199 235 613	1.200
¾	20	10	350	199 235 604	1.300	199 235 614	1.300
1	25	10	700	199 235 605	1.400	199 235 615	1.400
1 ¼	32	10	1000	199 235 606	2.500	199 235 616	2.500
1 ½	40	10	1600	199 235 607	2.800	199 235 617	2.800
2	50	10	3100	199 235 608	3.700	199 235 618	3.700
2 ½	65	10	5000	199 235 609	7.800	199 235 619	7.800
3	80	10	7000	199 235 610	10.300	199 235 620	10.300
4	100	10	11000	199 235 611	15.500	199 235 621	15.500

Size (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)
½	50	159	27	62	77	95	194	56	25	261	76	48	64
¾	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 ¼	84	202	44	84	99	146	224	85	45	305	95	59	94
1 ½	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 ½	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





Ball valve type 235 PVC-U FC (Fail safe to close)

Without manual override

With fixed flanges JIS

Model:

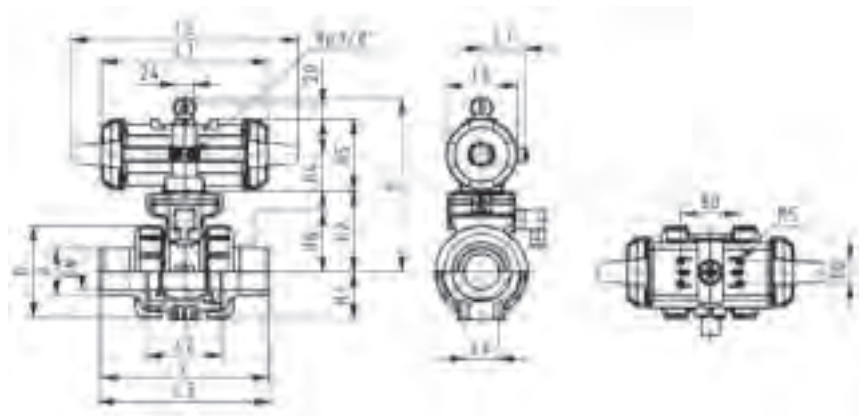
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 183	1.700	199 235 193	1.700
¾	20	10	350	199 235 184	1.900	199 235 194	1.900
1	25	10	700	199 235 185	2.100	199 235 195	2.100
1 ¼	32	10	1000	199 235 186	3.400	199 235 196	3.400
1 ½	40	10	1600	199 235 187	3.800	199 235 197	3.800
2	50	10	3100	199 235 188	4.900	199 235 198	4.900

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
½	50	159	27	62	40	77	48	124	194	56	143	25	261	76	48
¾	58	168	30	71	40	77	53	144	194	65	172	25	261	76	48
1	68	168	36	71	40	77	58	154	194	71	187	25	261	76	48
1 ¼	84	202	44	84	51	99	70	174	224	85	190	45	305	95	59
1 ½	97	202	51	84	51	99	75	194	224	89	212	45	305	95	59
2	124	225	64	106	51	99	83	224	224	101	234	45	305	95	59





Ball valve type 235 PVC-U FC (Fail safe to close)

Without manual override

With backing flanges PVC-U JIS

Model:

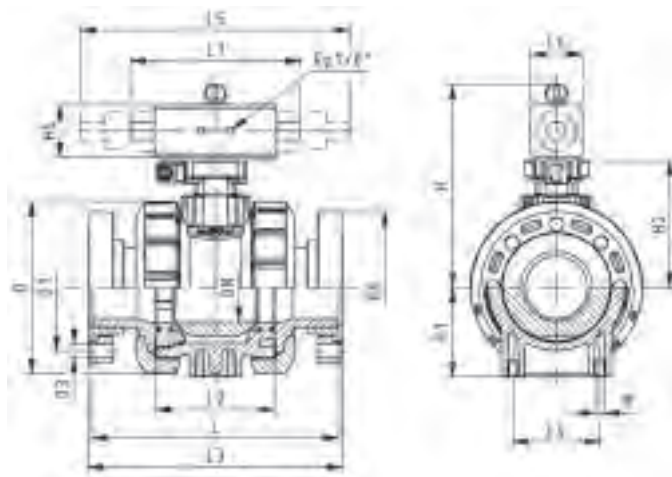
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: JIS B 2220, 10K

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (L/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
2 ½	65	10	5000	199 235 769	10.200	199 235 779	10.200
3	80	10	7000	199 235 770	13.700	199 235 780	13.700
4	100	10	11000	199 235 771	20.300	199 235 781	20.300

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H5 (mm)	H6 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
2 ½	166	262	85	156	70	88	284	136	290	70	276	65
3	200	281	105	168	78	93	300	141	310	70	341	72
4	238	292	123	175	86	105	340	164	350	120	369	80





DN10/15 - 50



Ball valve type 235 PVC-U F0 (Fail safe to open)

Without manual override

With solvent cement sockets JIS

Model:

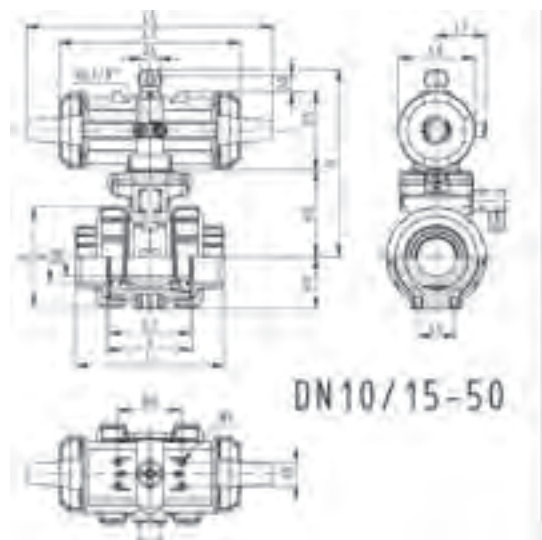
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

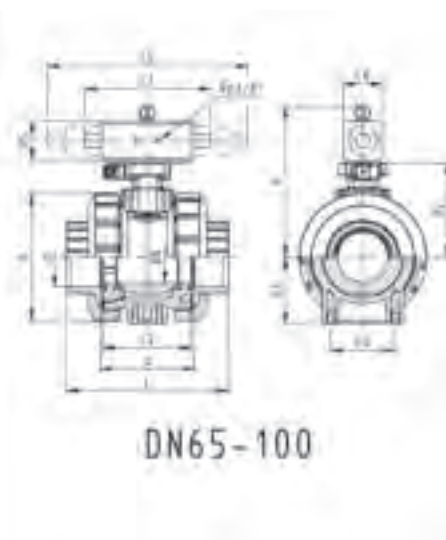
- Individual configuration of the valve (see diagram)

Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
½	15	10	185	199 235 083	1.200	199 235 093	1.200
¾	20	10	350	199 235 084	1.300	199 235 094	1.300
1	25	10	700	199 235 085	1.400	199 235 095	1.400
1 ¼	32	10	1000	199 235 086	2.500	199 235 096	2.500
1 ½	40	10	1600	199 235 087	2.800	199 235 097	2.800
2	50	10	3100	199 235 088	3.700	199 235 098	3.700
2 ½	65	10	5000	199 235 089	7.700	199 235 099	7.700
3	80	10	7000	199 235 090	10.200	199 235 100	10.200
4	100	10	11000	199 235 091	15.400	199 235 101	15.400

Size	D	H	H1	H2	H5	L	L1	L2	L4	L5	L6	L7	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
½	50	159	27	62	77	95	194	56	25	261	76	48	64
¾	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 ¼	84	202	44	84	99	146	224	85	45	305	95	59	94
1 ½	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 ½	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



DN10/15 - 50



Ball valve type 235 PVC-U F0 (Fail safe to open)

Without manual override

With threaded sockets Rc

Model:

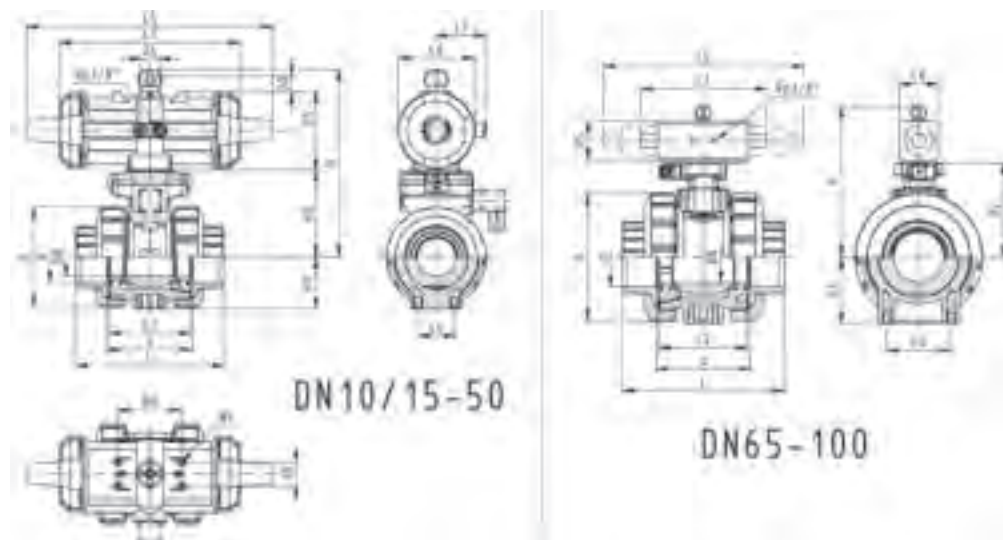
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(L/min)				
½	15	10	185	199 235 623	1.200	199 235 633	1.200
¾	20	10	350	199 235 624	1.300	199 235 634	1.300
1	25	10	700	199 235 625	1.400	199 235 635	1.400
1 ¼	32	10	1000	199 235 626	2.500	199 235 636	2.500
1 ½	40	10	1600	199 235 627	2.800	199 235 637	2.800
2	50	10	3100	199 235 628	3.700	199 235 638	3.700
2 ½	65	10	5000	199 235 629	7.800	199 235 639	7.800
3	80	10	7000	199 235 630	10.300	199 235 640	10.300
4	100	10	11000	199 235 631	15.500	199 235 641	15.500

Size	D	H	H1	H2	H5	L	L1	L2	L4	L5	L6	L7	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
½	50	159	27	62	77	95	194	56	25	261	76	48	64
¾	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 ¼	84	202	44	84	99	146	224	85	45	305	95	59	94
1 ½	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 ½	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





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

- Individual configuration of the valve (see diagram)

Size	D	H	H1	H2	H4	H5	H6	L	L1	L2	L3	L4	L5	L6	L7
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
½	50	159	27	62	40	77	48	124	194	56	143	25	261	76	48
¾	58	168	30	71	40	77	53	144	194	65	172	25	261	76	48
1	68	168	36	71	40	77	58	154	194	71	187	25	261	76	48
1 ¼	84	202	44	84	51	99	70	174	224	85	190	45	305	95	59
1 ½	97	202	51	84	51	99	75	194	224	89	212	45	305	95	59
2	124	225	64	106	51	99	83	224	224	101	234	45	305	95	59





Ball valve type 235 PVC-U FO (Fail safe to open)

Without manual override

With backing flanges PVC-U JIS

Model:

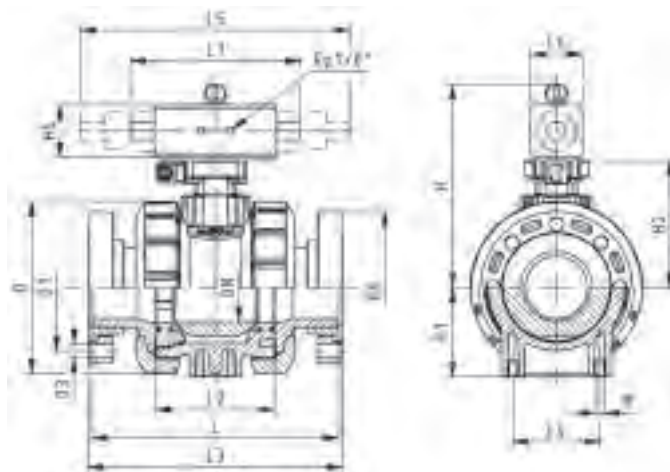
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA30 (DN65), PA40 (DN80), PA40 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: JIS B 2220, 10K

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (L/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
2 ½	65	10	5000	199 235 789	10.200	199 235 799	10.200
3	80	10	7000	199 235 790	13.700	199 235 800	13.700
4	100	10	11000	199 235 791	20.300	199 235 801	20.300

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H5 (mm)	H6 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
2 ½	166	262	85	156	70	88	284	136	290	70	276	65
3	200	281	105	168	78	93	300	141	310	70	341	72
4	238	292	123	175	86	105	340	164	350	120	369	80





DN10/15 - 50



Ball valve type 235 PVC-U DA (Double acting)

Without manual override

With solvent cement sockets JIS

Model:

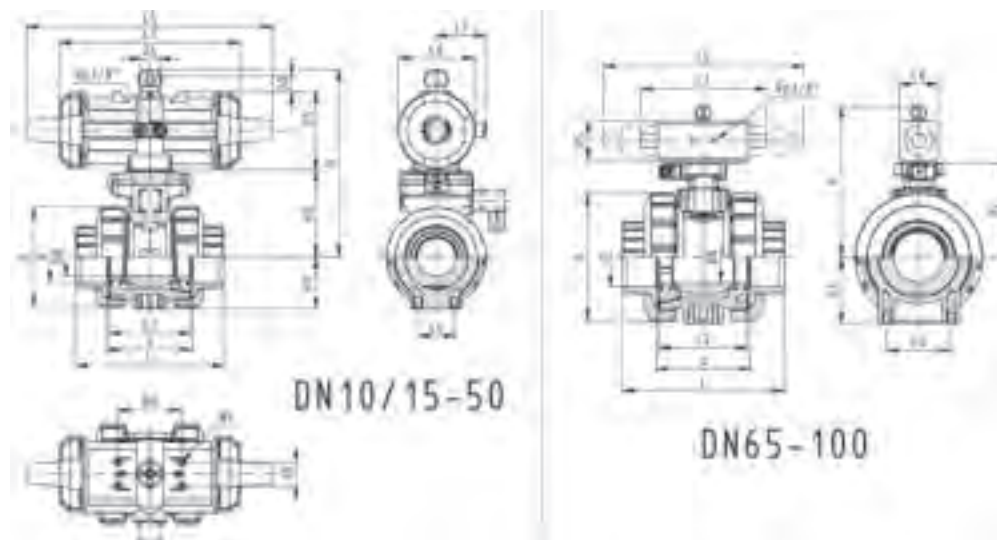
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 103	1.200	199 235 113	1.200
¾	20	10	350	199 235 104	1.300	199 235 114	1.300
1	25	10	700	199 235 105	1.400	199 235 115	1.400
1 ¼	32	10	1000	199 235 106	2.500	199 235 116	2.500
1 ½	40	10	1600	199 235 107	2.800	199 235 117	2.800
2	50	10	3100	199 235 108	3.700	199 235 118	3.700
2 ½	65	10	5000	199 235 109	6.600	199 235 119	6.600
3	80	10	7000	199 235 110	9.600	199 235 120	9.600
4	100	10	11000	199 235 111	13.600	199 235 121	13.600

Size (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)
½	50	159	27	62	77	95	194	56	25	261	76	48	64
¾	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 ¼	84	202	44	84	99	146	224	85	45	305	95	59	94
1 ½	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 ½	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



Ball valve type 235 PVC-U DA (Double acting)

Without manual override

With threaded sockets Rc

Model:

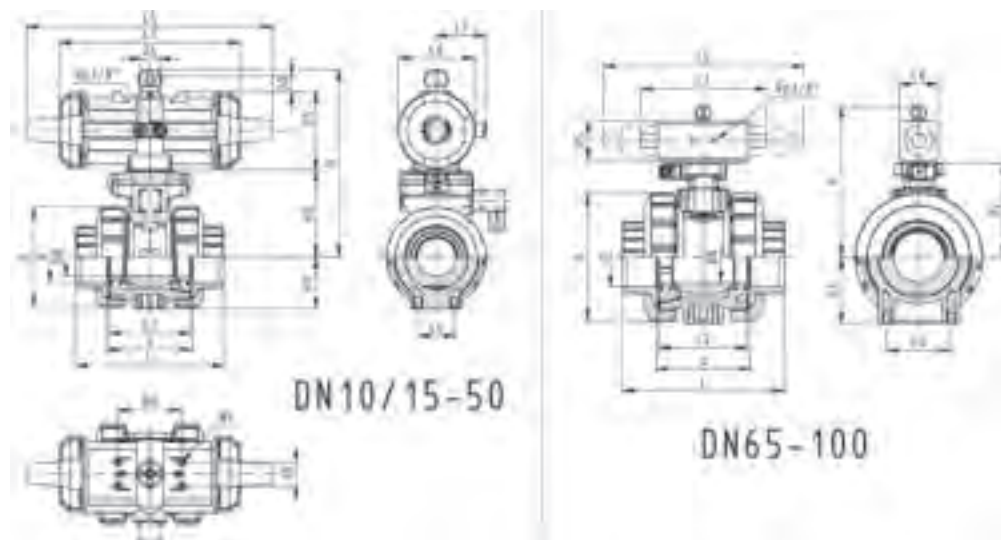
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 643	1.200	199 235 653	1.200
¾	20	10	350	199 235 644	1.300	199 235 654	1.300
1	25	10	700	199 235 645	1.400	199 235 655	1.400
1 ¼	32	10	1000	199 235 646	2.500	199 235 656	2.500
1 ½	40	10	1600	199 235 647	2.800	199 235 657	2.800
2	50	10	3100	199 235 648	3.700	199 235 658	3.700
2 ½	65	10	5000	199 235 649	6.700	199 235 659	6.700
3	80	10	7000	199 235 650	9.700	199 235 660	9.700
4	100	10	11000	199 235 651	13.800	199 235 661	13.800

Size (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)
½	50	159	27	62	77	95	194	56	25	261	76	48	65
¾	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 ¼	84	202	44	84	99	146	224	85	45	305	95	59	94
1 ½	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 ½	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





Ball valve type 235 PVC-U DA (Double acting)

Without manual override

With fixed flanges JIS

Model:

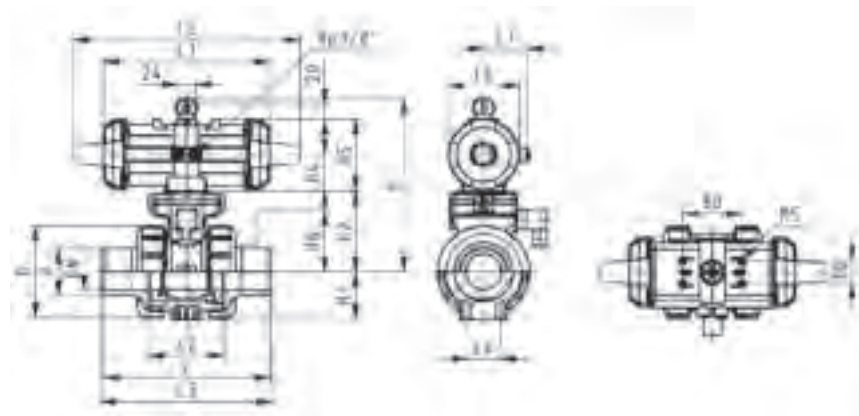
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	199 235 223	1.700	199 235 233	1.700
¾	20	10	350	199 235 224	1.900	199 235 234	1.900
1	25	10	700	199 235 225	2.100	199 235 235	2.100
1 ¼	32	10	1000	199 235 226	3.400	199 235 236	3.400
1 ½	40	10	1600	199 235 227	3.800	199 235 237	3.800
2	50	10	3100	199 235 228	4.900	199 235 238	4.900

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
½	50	159	27	62	40	77	48	124	194	56	143	25	261	76	48
¾	58	168	30	71	40	77	53	144	194	65	172	25	261	76	48
1	68	168	36	71	40	77	58	154	194	71	187	25	261	76	48
1 ¼	84	202	44	84	51	99	70	174	224	85	190	45	305	95	59
1 ½	97	202	51	84	51	99	75	194	224	89	212	45	305	95	59
2	124	225	64	106	51	99	83	224	224	101	234	45	305	95	59





Ball valve type 235 PVC-U DA (Double acting)

Without manual override

With backing flanges PVC-U JIS

Model:

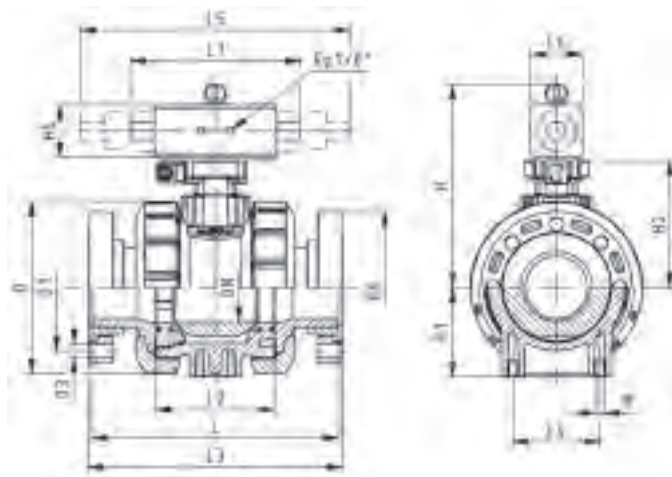
- Control time 90°<) 1-2s
- Assignment of actuators: PA11 (DN10/15-25), PA21 (DN32-50), PA35 (DN65), PA40 (DN80), PA45 (DN100)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimensions: JIS B 2220, 10K

Option:

- Individual configuration of the valve (see diagram)

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (L/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
2 ½	65	10	5000	199 235 809	9.000	199 235 819	9.000
3	80	10	7000	199 235 810	13.000	199 235 820	13.000
4	100	10	11000	199 235 811	18.600	199 235 821	18.600

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
2 ½	166	257	85	156	66	88	284	144	136	290	70	60
3	200	274	105	168	70	93	300	152	141	310	70	65
4	238	273	123	175	78	105	340	169	164	350	120	72



3-Way ball valves electric type 167



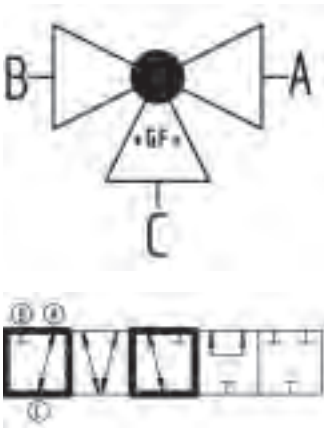
3-Way ball valve type 167 PVC-U
Horizontal/L-port 100-230V
With manual emergency override
With solvent cement sockets JIS

Model:

- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

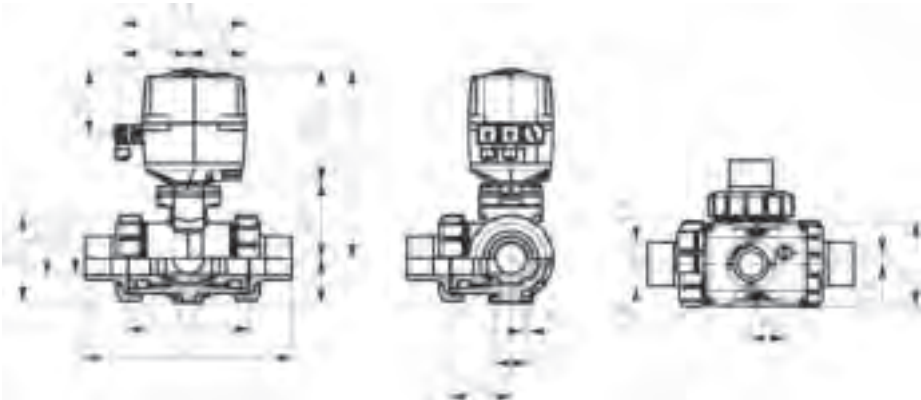
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board



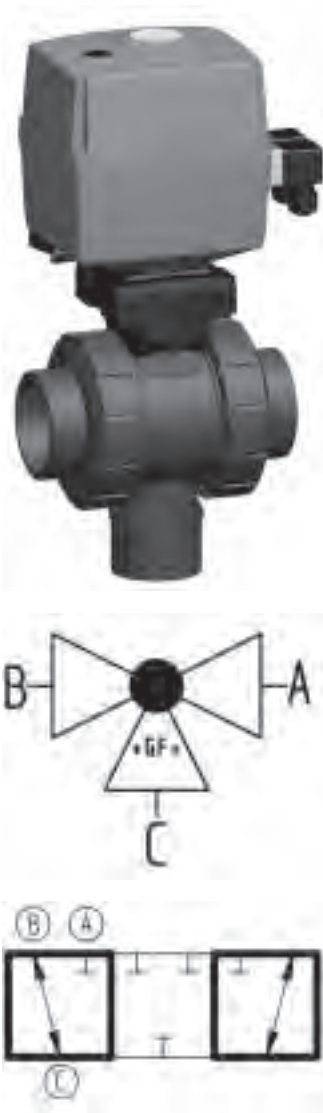
Size	DN	PN	kv-value	EA	EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)
			(l/min)			
½	15	10	75	EA25	199 167 843	2.122
¾	20	10	150	EA25	199 167 844	2.128
1	25	10	280	EA25	199 167 845	2.256
1 ¼	32	10	480	EA25	199 167 846	2.446
1 ½	40	10	620	EA25	199 167 847	2.870
2	50	10	1230	EA25	199 167 848	3.322

Size	D	H	H1	H2	H3	H5	H6	L	L1	L2	L3	L4	L5	L6	L7
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
½	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
¾	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
1	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
1 ¼	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
1 ½	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
2	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

Size	L8	M	z	z1
(inch)	(mm)		(mm)	(mm)
½	33	6	81	40
¾	33	6	94	47
1	33	6	107	54
1 ¼	33	8	130	65
1 ½	33	8	143	72
2	33	8	185	92



3-Way ball valves electric type 170



3-Way ball valve type 170 PVC-U
Vertical/L-port 100-230V
With manual emergency override
With solvent cement sockets JIS

Model:

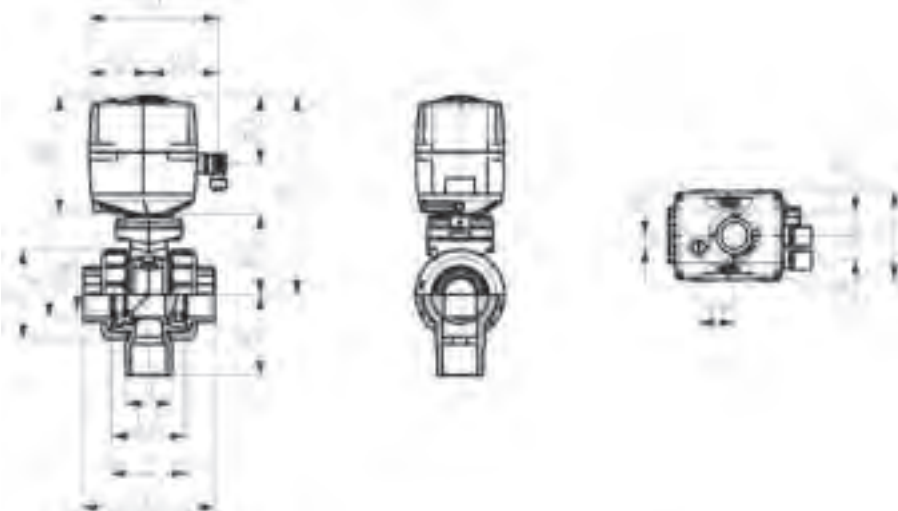
- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Size	DN	PN	kv-value	EA	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)	Code	(kg)
			(l/min)					
½	15	10	77	EA25	199 170 333	2.043	199 170 343	2.001
¾	20	10	146	EA25	199 170 334	2.150	199 170 344	2.004
1	25	10	260	EA25	199 170 335	2.267	199 170 345	2.090
1 ¼	32	10	437	EA25	199 170 336	2.554	199 170 346	2.179
1 ½	40	10	667	EA25	199 170 337	2.818	199 170 347	2.407
2	50	10	1293	EA25	199 170 338	3.595	199 170 348	2.609

Size	D	H	H1	H2	H3	H5	L	L1	L2	L5	L6	L7	L8	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
½	50	231	62	64	94	167	95	180	56	97	83	122	33	64
¾	58	240	72	73	94	167	111	180	66	97	83	122	33	74
1	68	240	77	73	94	167	123	180	71	97	83	122	33	79
1 ¼	84	251	87	84	94	167	146	180	85	97	83	122	33	95
1 ½	97	251	97	84	94	167	157	180	89	97	83	122	33	95
2	124	273	112	106	94	167	183	180	101	97	83	122	33	107





3-Way ball valve type 170 PVC-U
Vertical diverter ball 100-230V
With manual emergency override
With solvent cement sockets JIS

Model:

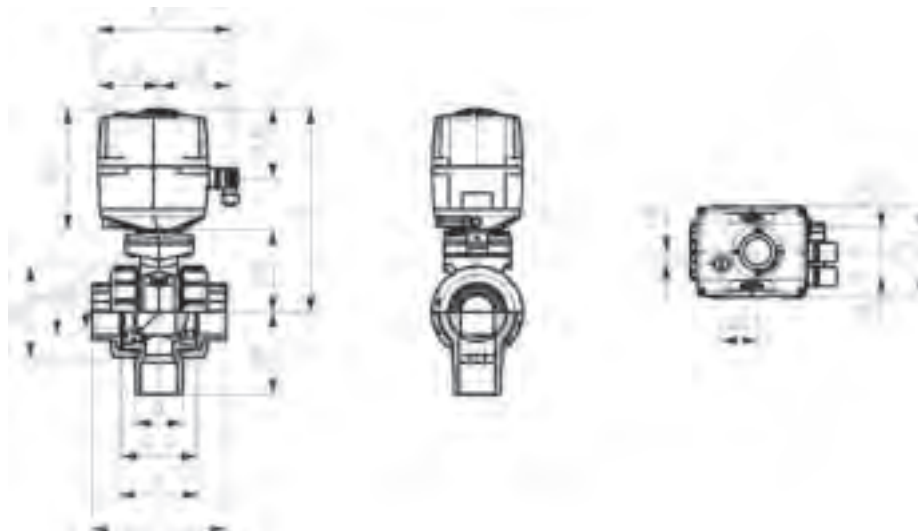
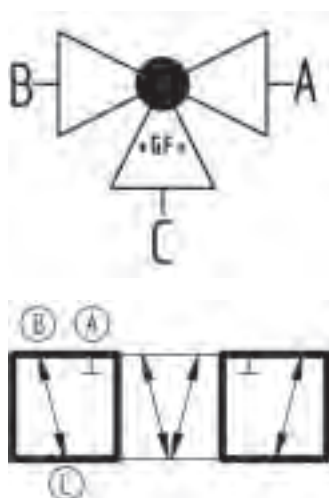
- Voltage 100-230 V, 50-60 Hz
- Factory set control range 90°<
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

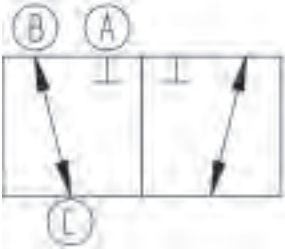
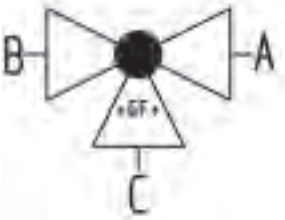
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EA	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	77	EA25	199 170 373	3.595	199 170 383	3.550
¾	20	10	146	EA25	199 170 374	2.042	199 170 384	2.042
1	25	10	260	EA25	199 170 375	2.148	199 170 385	2.148
1 ¼	32	10	437	EA25	199 170 376	2.260	199 170 386	2.260
1 ½	40	10	667	EA25	199 170 377	2.543	199 170 387	2.543
2	50	10	1293	EA25	199 170 378	2.797	199 170 388	2.797

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)
½	50	231	62	64	94	167	95	180	56	97	83	122	33	64
¾	58	240	72	73	94	167	111	180	66	97	83	122	33	74
1	68	240	77	73	94	167	123	180	71	97	83	122	33	79
1 ¼	84	251	87	84	94	167	146	180	85	97	83	122	33	95
1 ½	97	251	97	84	94	167	157	180	89	97	83	122	33	95
2	124	273	112	106	94	167	183	180	101	97	83	122	33	107



3-Way ball valves pneumatic



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

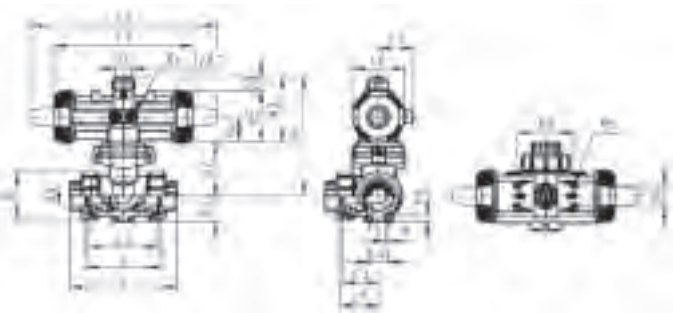
Model:

- 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

Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(L/min)				
3/8	10	10	50	199 285 742	1.115	199 285 752	1.115
1/2	15	10	75	199 285 743	1.121	199 285 753	1.121
3/4	20	10	150	199 285 744	1.249	199 285 754	1.249
1	25	10	280	199 285 745	1.439	199 285 755	1.439
1 1/4	32	10	480	199 285 746	2.539	199 285 756	2.539
1 1/2	40	10	620	199 285 747	2.970	199 285 757	2.991
2	50	10	1230	199 285 748	4.352	199 285 758	4.352

Size	D	H	H1	H2	H3	H4	H5	H6	L	L1	L2	L3	L4	L5	L6
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
3/8	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
1/2	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
1	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
1 1/4	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
1 1/2	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
2	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

Size	L7	M	z	z1
(inch)	(mm)		(mm)	(mm)
3/8	48	6	77	38
1/2	48	6	77	38
3/4	48	6	90	45
1	48	6	103	52
1 1/4	59	8	124	62
1 1/2	59	8	145	73
2	59	8	189	94

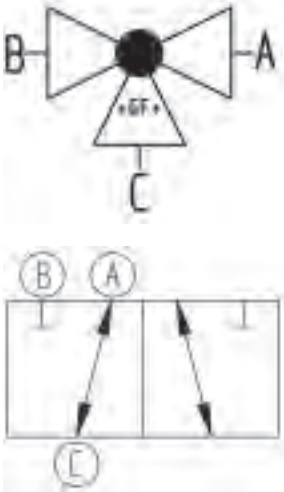




3-Way ball valve type 285 PVC-U
Horizontal/L-port DA (Double acting)
Without manual override
With solvent cement sockets BS

Model:

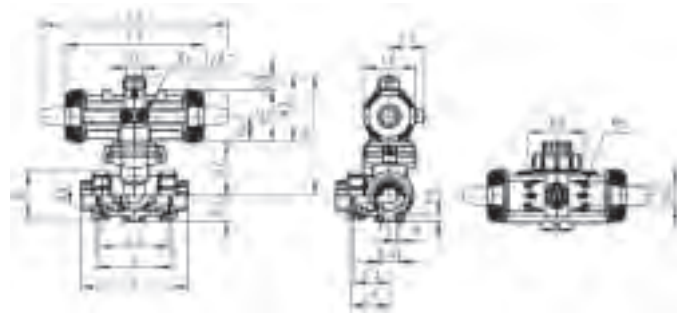
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

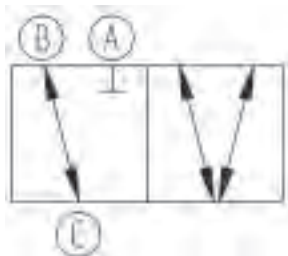
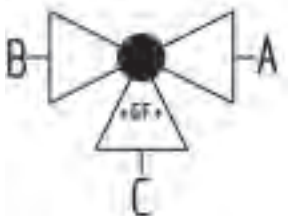


Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/4	10	10	50	199 285 762	0.925	199 285 772	0.925
1/2	15	10	75	199 285 763	0.931	199 285 773	0.931
3/4	20	10	150	199 285 764	1.059	199 285 774	1.059
1	25	10	280	199 285 765	1.249	199 285 775	1.249
1 1/4	32	10	480	199 285 766	2.115	199 285 776	2.115
1 1/2	40	10	620	199 285 767	2.567	199 285 777	2.567
2	50	10	1230	199 285 768	3.928	199 285 778	3.928

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
3/4	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
1/2	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
1	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
1 1/4	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
1 1/2	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
2	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

Size (inch)	L7 (mm)	M (mm)	z (mm)	z1 (mm)
3/4	48	6	77	38
1/2	48	6	77	38
3/4	48	6	90	45
1	48	6	103	52
1 1/4	59	8	124	62
1 1/2	59	8	145	73
2	59	8	189	94





3-Way ball valve type 285 PVC-U

Horizontal/T-port

Without manual override

With solvent cement sockets BS

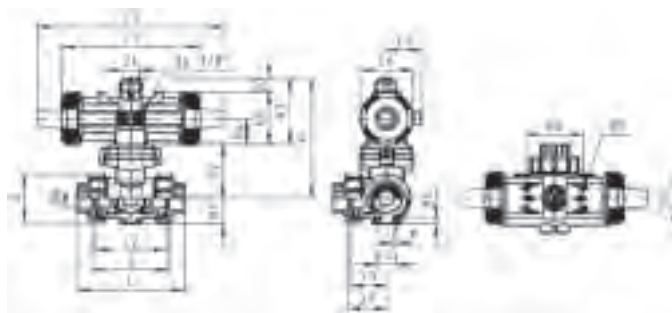
Model:

- 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

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	140	199 285 702	1.114	199 285 712	1.114
1/2	15	10	200	199 285 703	1.120	199 285 713	1.120
3/4	20	10	470	199 285 704	1.247	199 285 714	1.247
1	25	10	793	199 285 705	1.432	199 285 715	1.432
1 1/4	32	10	1290	199 285 706	2.528	199 285 716	2.528
1 1/2	40	10	1910	199 285 707	2.970	199 285 717	2.970
2	50	10	3100	199 285 708	4.307	199 285 718	4.307

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
3/8	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
1/2	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
1	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
1 1/4	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
1 1/2	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
2	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

Size (inch)	L7 (mm)	M (mm)	z (mm)	z1 (mm)
3/8	48	6	77	38
1/2	48	6	77	38
3/4	48	6	90	45
1	48	6	103	52
1 1/4	59	8	124	62
1 1/2	59	8	145	73
2	59	8	189	94

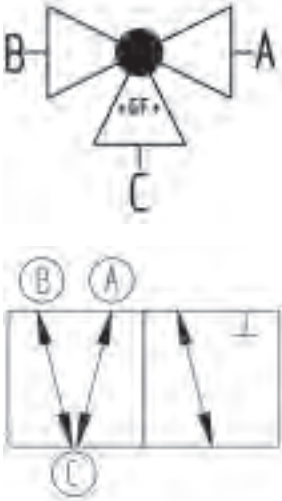




3-Way ball valve type 285 PVC-U
Horizontal/T-port DA (Double acting)
Without manual override
With solvent cement sockets BS

Model:

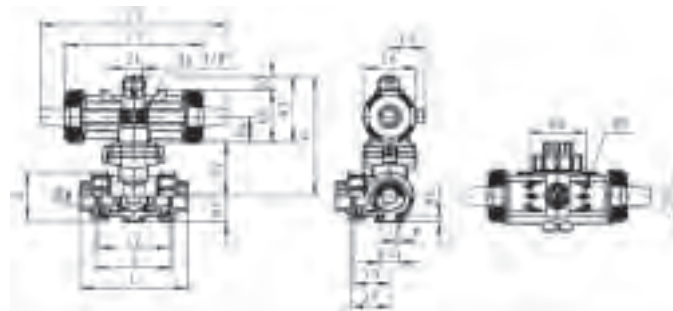
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	140	199 285 722	0.924	199 285 732	0.924
1/2	15	10	200	199 285 723	0.930	199 285 733	0.930
3/4	20	10	470	199 285 724	1.057	199 285 734	1.057
1	25	10	793	199 285 725	1.242	199 285 735	1.242
1 1/4	32	10	1290	199 285 726	2.104	199 285 736	2.104
1 1/2	40	10	1910	199 285 727	2.546	199 285 737	2.546
2	50	10	3100	199 285 728	3.883	199 285 738	3.883

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
3/8	50	159	28	62	97	40	77	8	109	194	73	36	25	261	76
1/2	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
1	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
1 1/4	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
1 1/2	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
2	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

Size (inch)	L7 (mm)	M (mm)	z (mm)	z1 (mm)
3/8	48	6	77	38
1/2	48	6	77	38
3/4	48	6	90	45
1	48	6	103	52
1 1/4	59	8	124	62
1 1/2	59	8	145	73
2	59	8	189	94

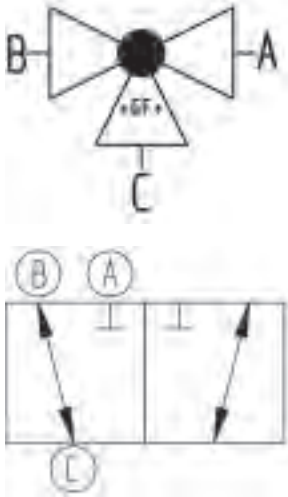




3-Way ball valve type 285 PVC-U
Horizontal/L-port
Without manual override
With solvent cement sockets JIS

Model:

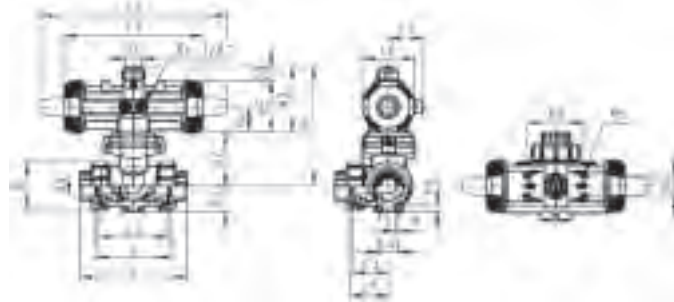
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	75	199 285 863	1.121	199 285 873	1.121
¾	20	10	150	199 285 864	1.249	199 285 874	1.249
1	25	10	280	199 285 865	1.439	199 285 875	1.439
1 ¼	32	10	480	199 285 866	2.539	199 285 876	2.539
1 ½	40	10	620	199 285 867	2.991	199 285 877	2.991
2	50	10	1230	199 285 868	4.352	199 285 878	4.352

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
½	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
¾	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
1	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
1 ¼	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
1 ½	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
2	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

Size (inch)	L7 (mm)	M (mm)	z (mm)	z1 (mm)
½	48	6	81	40
¾	48	6	94	47
1	48	6	107	54
1 ¼	59	8	130	65
1 ½	59	8	143	72
2	59	8	185	92

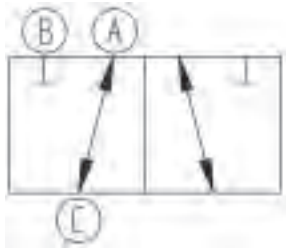
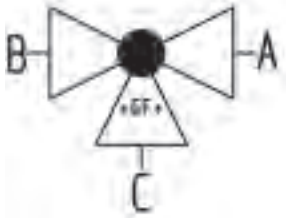




3-Way ball valve type 285 PVC-U
Horizontal/L-port DA (Double acting)
Without manual override
With solvent cement sockets JIS

Model:

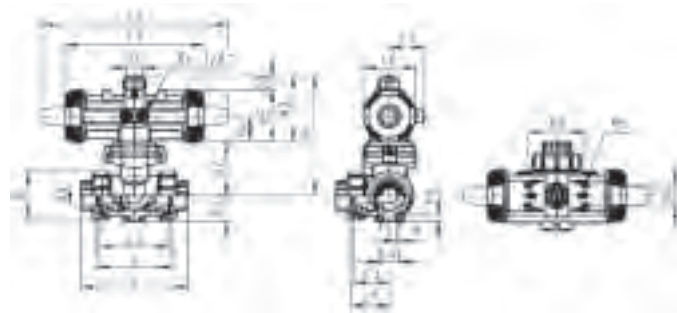
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	75	199 285 643	0.877	199 285 653	0.931
¾	20	10	150	199 285 644	1.059	199 285 654	1.059
1	25	10	280	199 285 645	1.249	199 285 655	1.249
1 ¼	32	10	480	199 285 646	2.115	199 285 656	2.115
1 ½	40	10	620	199 285 647	2.567	199 285 657	2.567
2	50	10	1230	199 285 648	3.928	199 285 658	3.928

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
½	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
¾	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
1	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
1 ¼	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
1 ½	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
2	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

Size (inch)	L7 (mm)	M (mm)	z (mm)	z1 (mm)
½	48	6	81	40
¾	48	6	94	47
1	48	6	107	54
1 ¼	59	8	130	65
1 ½	59	8	143	72
2	59	8	185	92

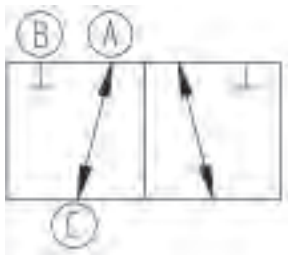
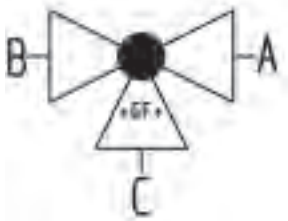




3-Way ball valve type 288 PVC-U
Vertical diverter ball
Without manual override
With solvent cement sockets JIS

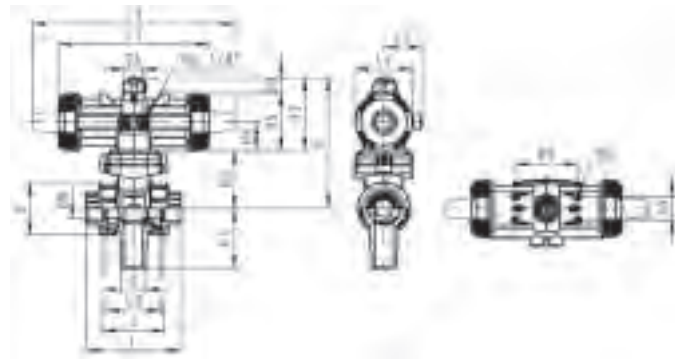
Model:

- Vertical inlet solvent cement spigot metric
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- Easy installation and removal using union on third outlet



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	77	199 288 123	1.035	199 288 133	1.035
¾	20	10	146	199 288 124	1.141	199 288 134	1.141
1	25	10	260	199 288 125	1.253	199 288 135	1.253
1 ¼	32	10	437	199 288 126	2.212	199 288 136	2.212
1 ½	40	10	667	199 288 127	2.466	199 288 137	2.466
2	50	10	1293	199 288 128	3.219	199 288 138	3.219

Size (inch)	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)	z (mm)
½	50	159	62	62	97	40	77	95	194	56	261	76	48	64
¾	58	168	72	71	97	40	77	111	194	66	261	76	48	74
1	68	168	77	71	97	40	77	123	194	71	261	76	48	79
1 ¼	84	203	87	84	119	51	99	146	224	85	305	95	59	95
1 ½	97	203	97	84	119	51	99	157	224	89	305	95	59	95
2	124	225	112	106	119	51	99	183	224	101	305	95	59	107



Diaphragm valves pneumatic

Diaphragm valves pneumatic type 604 / 605



Diaphragm valve type 604 PVC-U
Unions with solvent cement socket BS

Model:

- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve (see diagram)



Actuator	d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	FPM Code	Weight (kg)	PTFE/EPDM Code
FC	20	15	6	125	161 604 512	161 604 562	0.40	161 604 532
FO	20	15	6	125	161 604 514	161 604 564	0.37	161 604 534
DA	20	15	6	125	161 604 515	161 604 565	0.35	161 604 535

Actuator	D (mm)	D1_G (inch)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
FC	65	¼	43	89	14	12	46	30	42	131	25	M6	98	6
FO	65	¼	43	89	14	12	46	30	42	131	25	M6	98	6
DA	65	¼	43	89	14	12	46	30	42	131	25	M6	98	6



Diaphragm valve type 604 PVC-U
Unions with solvent cement socket JIS

Model:

- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve (see diagram)



Actuator	d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	FPM Code	Weight (kg)	PTFE/EPDM Code
FC	20	15	6	125	161 604 812	161 604 862	0.40	161 604 832
FO	20	15	6	125	161 604 814	161 604 864	0.37	161 604 834
DA	20	15	6	125	161 604 815	161 604 865	0.35	161 604 835

Actuator	D (mm)	D1_G (inch)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
FC	65	¼	43	89	14	12	46	30	42	128	25	M6	102	6
FO	65	¼	43	89	14	12	46	30	42	128	25	M6	102	6
DA	65	¼	43	89	14	12	46	30	42	128	25	M6	102	6

DIASTAR Six



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

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)
- PN16 available as a configuration

Size	DN	PN	kv-value	EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
½	15	6	125	161 614 512	0.564
¾	20	6	271	161 614 513	1.044
1	25	6	481	161 614 514	1.273
1 ¼	32	6	759	161 614 515	2.058
1 ½	40	6	960	161 614 516	2.678
2	50	6	1181	161 614 517	3.786

Size	D	D1_G	H	H1	H2	H3	H7	L	L2	M	z	Lift = Hx
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	68	⅝	101	14	12	60	43	128	25	M6	96	7
¾	96	⅝	132	18	12	73	57	152	25	M6	114	10
1	96	⅝	143	22	12	84	57	166	25	M6	122	13
1 ¼	120	⅝	173	26	15	99	69	192	45	M8	140	14
1 ½	120	⅝	193	32	15	119	69	222	45	M8	160	16
2	120	⅝	205	39	15	132	69	266	45	M8	190	16



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

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)
- PN16 available as a configuration

Size	DN	PN	kv-value	EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
½	15	6	125	161 614 812	1.019
¾	20	6	271	161 614 813	1.010
1	25	6	481	161 614 814	1.277
1 ¼	32	6	759	161 614 815	2.076
1 ½	40	6	960	161 614 816	2.759
2	50	6	1181	161 614 817	3.802

Size	D	D1_G	H	H1	H2	H3	H7	L	L2	M	z	Lift = Hx
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	96	⅝	132	18	12	73	57	152	25	M6	120	10
¾	96	⅝	132	18	12	73	57	152	25	M6	114	10
1	96	⅝	143	22	12	84	57	166	25	M6	122	13
1 ¼	120	⅝	173	26	15	99	69	192	45	M6	140	14
1 ½	120	⅝	193	32	15	119	69	222	45	M6	160	16
2	120	⅝	205	39	15	132	69	266	45	M6	190	16



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

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)
- PN16 available as a configuration

Rc	DN	PN	kv-value	EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
½	15	6	125	161 614 912	1.056
¾	20	6	271	161 614 913	1.048
1	25	6	481	161 614 914	1.279
1 ¼	32	6	759	161 614 915	2.072
1 ½	40	6	960	161 614 916	2.706
2	50	6	1181	161 614 917	3.874



Rc	D	D1_G	H	H1	H2	H3	H7	L	L2	M	z	Lift = Hx
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	96	⅝	132	18	12	73	57	152	25	M6	120	10
¾	96	⅝	132	18	12	73	57	152	25	M6	114	10
1	96	⅝	143	22	12	84	57	166	25	M6	122	13
1 ¼	120	⅝	173	26	15	99	69	192	45	M6	140	14
1 ½	120	⅝	193	32	15	119	69	222	45	M6	160	16
2	120	⅝	205	39	15	132	69	266	45	M6	190	16



Diaphragm valve DIASTAR Six PVC-U
FC (Fail safe to close)
With fixed flanges PVC-U JIS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve (see diagram)



Size	DN	PN	kv-value	EPDM	Weight
(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)
			(L/min)		
½	15	6	125	161 617 912	0.696
¾	20	6	271	161 617 913	1.145
1	25	6	481	161 617 914	1.448
1 ¼	32	6	759	161 617 915	2.384
1 ½	40	6	960	161 617 916	2.964
2	50	6	1181	161 617 917	4.029

Size	D	D1_G	D3	D4	D5	H	H1	H2	H3	H7	L	L2	M	Lift = Hx
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
½	68	⅝	95	70	15	101	14	12	60	43	110	25	M6	7
¾	96	⅝	100	75	15	132	18	12	73	57	120	25	M6	10
1	96	⅝	125	90	15	143	22	12	84	57	130	25	M6	13
1 ¼	120	⅝	135	100	19	173	26	15	99	69	180	45	M6	14
1 ½	120	⅝	140	105	19	193	32	15	119	69	180	45	M6	16
2	120	⅝	155	120	19	205	39	15	132	69	210	45	M6	16

DIASTAR Ten



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

Model:

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

Option:

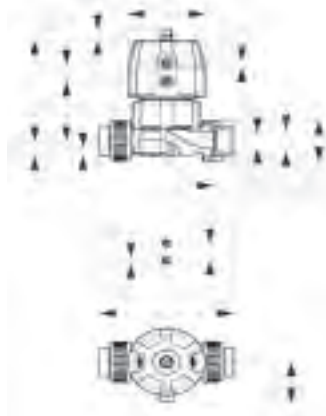
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE

Working Pressure: **one side**

Size (inch)	DN (mm)	PN (psi)	PN* (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	150/150*	10/10*	125	161 624 512	0.590	161 624 532	0.600
¾	20	150/150*	10/10*	271	161 624 513	1.119	161 624 533	1.130
1	25	150/150*	10/10*	481	161 624 514	1.345	161 624 534	1.365
1 ¼	32	150/150*	10/10*	759	161 624 515	2.208	161 624 535	2.228
1 ½	40	150/150*	10/10*	1263	161 624 516	3.816	161 624 536	3.987
2	50	150/90*	10/6*	1728	161 624 517	4.707	161 624 537	4.735

Size (inch)	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)
½	68	¾	101	14	12	60	24	16	43	128	25	M6	96	7
¾	96	¾	132	18	12	73	25	16	57	152	25	M6	114	10
1	96	¾	143	22	12	84	25	16	57	166	25	M6	122	13
1 ¼	120	¾	173	26	15	99	26	26	69	192	45	M8	140	15
1 ½	150	¾	214	32	15	119	36	26	88	222	45	M8	160	19
2	150	¾	226	39	15	132	36	26	88	266	45	M8	190	23



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

Model:

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

Option:

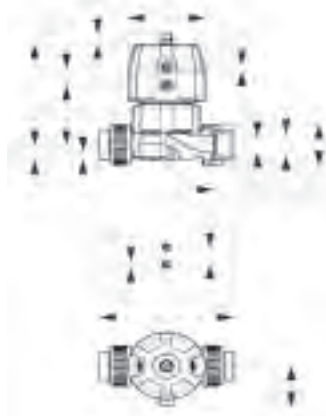
- Individual configuration of the valve (see diagram)
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE

Working Pressure: **one side**

Size	DN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(L/min)				
½	15	10/10*	125	161 624 812	1.114	161 624 832	1.142
¾	20	10/10*	271	161 624 813	1.108	161 624 833	1.114
1	25	10/10*	481	161 624 814	1.341	161 624 834	1.369
1 ¼	32	10/10*	759	161 624 815	2.226	161 624 835	2.246
1 ½	40	10/10*	1263	161 624 816	3.846	161 624 836	3.991
2	50	10/6*	1728	161 624 817	4.608	161 624 837	4.751

Size	D	D1_G	H	H1	H2	H3	H4	H5	H7	L	L2	M	z	Lift = Hx
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	96	⅝	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	⅝	132	18	12	73	25	16	57	152	25	M6	144	10
1	96	⅝	143	22	12	84	25	16	57	166	25	M6	122	13
1 ¼	120	⅝	173	26	15	99	26	26	69	192	45	M8	140	15
1 ½	150	⅝	214	32	15	119	36	26	88	222	45	M8	160	19
2	150	⅝	226	39	15	132	36	26	88	266	45	M8	190	23



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

Model:

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

Option:

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

* PN: PTFE

Working Pressure: **one side**

Rc	DN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(L/min)				
½	15	10/10*	125	161 624 912	1.131	161 624 932	1.142
¾	20	10/10*	271	161 624 913	1.123	161 624 933	1.134
1	25	10/10*	481	161 624 914	1.351	161 624 934	1.371
1 ¼	32	10/10*	759	161 624 915	2.222	161 624 935	2.242
1 ½	40	10/10*	1263	161 624 916	3.844	161 624 936	3.874
2	50	10/6*	1728	161 624 917	4.795	161 624 937	4.823

table continued on the next page



Rc (inch)	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)
½	96	⅝	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	⅝	132	18	12	73	25	16	57	152	25	M6	114	10
1	96	⅝	143	22	12	84	25	16	57	166	25	M6	122	13
1 ¼	120	⅝	173	26	15	99	26	26	69	192	45	M8	140	15
1 ½	120	⅝	214	32	15	119	36	26	88	222	45	M8	160	19
2	120	⅝	226	39	15	132	36	26	88	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U
FC (Fail safe to close)
With fixed flanges PVC-U JIS

Model:

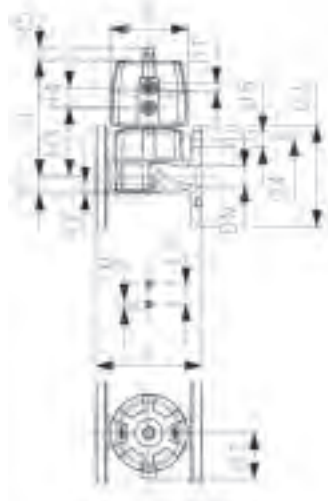
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

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

* PN: PTFE

Working Pressure: **one side**



Size (inch)	DN (mm)	PN* (bar)	kv-value (Δp=1 bar) (L/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10/10*	125	161 627 912	0.722	161 627 932	0.732
¾	20	10/10*	271	161 627 913	1.220	161 627 933	1.231
1	25	10/10*	481	161 627 914	1.520	161 627 934	1.540
1 ¼	32	10/10*	759	161 627 915	2.534	161 627 935	2.554
1 ½	40	10/10*	1263	161 627 916	4.102	161 627 936	4.132
2	50	10/6*	1728	161 627 917	4.950	161 627 937	4.978

Size (inch)	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)	M
½	68	⅝	95	70	15	101	14	12	60	24	16	43	110	25	M6
¾	96	⅝	100	75	15	132	18	12	73	25	16	57	120	25	M6
1	96	⅝	125	90	19	143	22	12	84	25	16	57	130	25	M6
1 ¼	120	⅝	135	100	19	173	26	15	99	26	26	69	180	45	M8
1 ½	150	⅝	140	105	19	193	32	15	119	36	26	88	180	45	M8
2	150	⅝	155	120	19	205	39	15	132	36	26	88	210	45	M8

Size (inch)	Lift = Hx (mm)
½	7
¾	10
1	13
1 ¼	15
1 ½	19
2	23



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

Model:

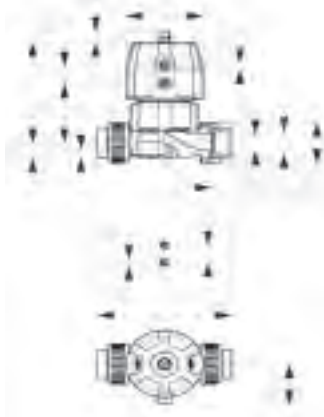
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

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

* PN: PTFE

Working Pressure: **one side**



Size (inch)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10/10*	125	161 644 512	0.504	161 644 532	0.550
¾	20	10/10*	271	161 644 513	0.945	161 644 533	0.956
1	25	10/10*	481	161 644 514	1.165	161 644 534	1.152
1 ¼	32	10/10*	759	161 644 515	1.848	161 644 535	1.868
1 ½	40	10/10*	1263	161 644 516	3.726	161 644 536	3.756
2	50	10/10*	1728	161 644 517	4.617	161 644 537	4.645

Size (inch)	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)
½	68	⅝	101	14	12	60	24	16	43	128	25	M6	96	7
¾	96	⅝	132	18	12	73	25	16	57	152	25	M6	114	10
1	96	⅝	143	22	12	84	25	16	57	166	25	M6	122	13
1 ¼	120	⅝	173	26	15	99	26	26	69	192	45	M8	140	15
1 ½	150	¾	214	32	15	119	36	26	88	222	45	M8	160	19
2	150	¾	226	39	15	132	36	26	88	266	45	M8	190	23



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

Model:

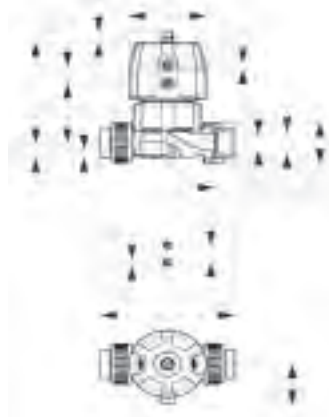
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

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

* PN: PTFE

Working Pressure: **one side**



Size (inch)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (L/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10/10*	125	161 644 812	0.957	161 644 832	0.968
¾	20	10/10*	271	161 644 813	0.947	161 644 833	0.958
1	25	10/10*	481	161 644 814	1.169	161 644 834	1.189
1 ¼	32	10/10*	759	161 644 815	1.866	161 644 835	1.886
1 ½	40	10/10*	1263	161 644 816	3.756	161 644 836	3.786
2	50	10/10*	1728	161 644 817	4.633	161 644 837	4.661

Size (inch)	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)
½	96	⅝	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	⅝	132	18	12	73	25	16	57	152	25	M6	114	10
1	96	⅝	143	22	12	84	25	16	57	166	25	M6	122	13
1 ¼	120	⅝	173	26	15	99	26	26	69	192	45	M8	140	15
1 ½	150	¾	214	32	15	119	36	26	88	222	45	M8	160	19
2	150	¾	226	39	15	132	36	26	88	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U

FO (Fail safe to open)

Unions with threaded sockets Rc

Model:

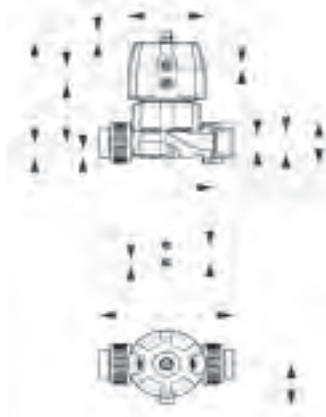
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

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

* PN: PTFE

Working Pressure: **one side**



Rc	DN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
½	15	10/10*	125	161 644 912	0.957	161 644 932	0.968
¾	20	10/10*	271	161 644 913	0.948	161 644 933	0.960
1	25	10/10*	481	161 644 914	1.171	161 644 934	1.191
1 ¼	32	10/10*	759	161 644 915	1.862	161 644 935	1.882
1 ½	40	10/10*	1263	161 644 916	3.754	161 644 936	3.784
2	50	10/10*	1728	161 644 917	4.705	161 644 937	4.733

Rc	D	D1_G	H	H1	H2	H3	H4	H5	H7	L	L2	M	z	Lift = Hx
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	96	⅝	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	⅝	132	18	12	73	25	16	57	152	25	M6	114	10
1	96	⅝	143	22	12	84	25	16	57	166	25	M6	122	13
1 ¼	120	⅝	173	26	15	99	26	26	69	192	45	M8	140	15
1 ½	150	¾	214	32	15	119	36	26	69	222	45	M8	160	19
2	150	¾	226	39	15	132	36	26	69	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U
FO (Fail safe to open)
With fixed flanges PVC-U JIS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

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

* PN: PTFE

Working Pressure: **one side**



Size	DN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(L/min)				
½	15	10/10*	125	161 647 912	0.672	161 647 932	0.682
¾	20	10/10*	271	161 647 913	1.046	161 647 933	1.057
1	25	10/10*	481	161 647 914	1.340	161 647 934	1.360
1 ¼	32	10/10*	759	161 647 915	2.174	161 647 935	2.194
1 ½	40	10/10*	1263	161 647 916	4.012	161 647 936	4.042
2	50	10/10*	1728	161 647 917	4.860	161 647 937	4.888

Size	D	D1_G	D3	D4	D5	H	H1	H2	H3	H4	H5	H7	L	L2	M
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
½	68	⅝	95	70	15	101	14	12	60	24	16	43	110	25	M6
¾	96	⅝	100	75	15	132	18	12	73	25	16	57	120	25	M6
1	96	⅝	125	90	19	143	22	12	84	25	16	57	130	25	M6
1 ¼	120	⅝	135	100	19	173	26	15	99	26	26	69	180	45	M8
1 ½	150	¾	140	105	19	214	32	15	119	36	26	88	180	45	M8
2	150	¾	155	120	19	226	39	15	132	36	26	88	210	45	M8

Size **Lift =**
(inch) **Hx**
 (mm)

½	7
¾	10
1	13
1 ¼	15
1 ½	19
2	23



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

Model:

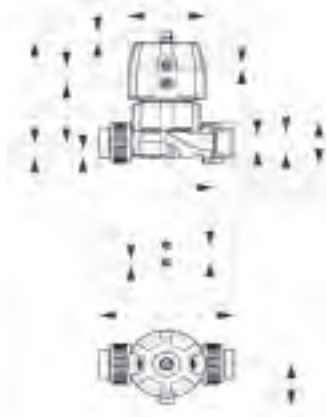
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

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

* PN: PTFE

Working Pressure: **one side**



Size (inch)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10/10*	125	161 654 512	0.508	161 654 532	0.534
¾	20	10/10*	271	161 654 513	0.909	161 654 533	0.920
1	25	10/10*	481	161 654 514	1.135	161 654 534	1.155
1 ¼	32	10/10*	759	161 654 515	1.788	161 654 535	1.808
1 ½	40	10/10*	1263	161 654 516	2.976	161 654 536	3.006
2	50	10/10*	1728	161 654 517	4.762	161 654 537	3.895

Size (inch)	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)
½	68	⅝	101	14	12	60	24	16	43	128	25	M6	96	7
¾	96	⅝	132	18	12	73	25	16	57	152	25	M6	114	10
1	96	⅝	143	22	12	84	25	16	57	166	25	M6	122	13
1 ¼	120	⅝	173	26	15	99	26	26	69	192	45	M8	140	15
1 ½	150	¾	214	32	15	119	36	26	88	222	45	M8	160	19
2	150	¾	226	39	15	132	36	26	88	266	45	M8	190	23



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

Model:

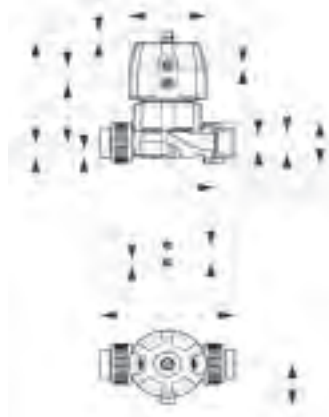
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

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

* PN: PTFE

Working Pressure: **one side**



Size (inch)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (L/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10/10*	125	161 654 812	0.921	161 654 832	0.932
¾	20	10/10*	271	161 654 813	0.911	161 654 833	0.922
1	25	10/10*	481	161 654 814	1.139	161 654 834	1.159
1 ¼	32	10/10*	759	161 654 815	1.806	161 654 835	1.826
1 ½	40	10/10*	1263	161 654 816	3.006	161 654 836	3.036
2	50	10/10*	1728	161 654 817	3.883	161 654 837	3.911

Size (inch)	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)
½	96	⅝	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	⅝	132	18	12	73	25	16	57	152	25	M6	114	10
1	96	⅝	143	22	12	84	25	16	57	166	25	M6	122	13
1 ¼	120	⅝	173	26	15	99	26	26	69	192	45	M8	140	15
1 ½	150	¾	214	32	15	119	36	26	88	222	45	M8	160	19
2	150	¾	226	39	15	132	36	26	88	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U
DA (Double acting)
Unions with threaded sockets Rc

Model:

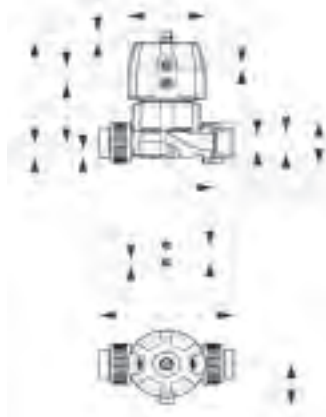
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

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

* PN: PTFE

Working Pressure: **one side**



Rc	DN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
½	15	10/10*	125	161 654 912	0.921	161 654 932	0.932
¾	20	10/10*	271	161 654 913	0.912	161 654 933	0.924
1	25	10/10*	481	161 654 914	1.141	161 654 934	1.161
1 ¼	32	10/10*	759	161 654 915	1.802	161 654 935	1.822
1 ½	40	10/10*	1263	161 654 916	3.004	161 654 936	3.034
2	50	10/10*	1728	161 654 917	3.955	161 654 937	3.983

Rc	D	D1_G	H	H1	H2	H3	H4	H5	H7	L	L2	M	z	Lift = Hx
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	96	⅝	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	⅝	132	18	12	73	25	16	57	152	25	M6	114	10
1	96	⅝	143	22	12	84	25	16	57	166	25	M6	122	13
1 ¼	120	⅝	173	26	15	99	26	26	69	192	45	M8	140	15
1 ½	150	¾	214	32	15	119	36	26	69	222	45	M8	160	19
2	150	¾	226	39	15	132	36	26	69	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U
DA (Double acting)
With fixed flanges PVC-U JIS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

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

* PN: PTFE

Working Pressure: **one side**



Size (inch)	DN (mm)	PN* (bar)	kv-value (Δp=1 bar) (L/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10/10*	125	161 657 912	0.656	161 657 932	0.666
¾	20	10/10*	271	161 657 913	1.010	161 657 933	1.021
1	25	10/10*	481	161 657 914	1.310	161 657 934	1.330
1 ¼	32	10/10*	759	161 657 915	2.114	161 657 935	2.134
1 ½	40	10/10*	1263	161 657 916	3.262	161 657 936	3.292
2	50	10/10*	1728	161 657 917	4.110	161 657 937	4.138

Size (inch)	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)	M
½	68	⅝	95	70	15	101	14	12	60	24	16	43	110	25	M6
¾	96	⅝	100	75	15	132	18	12	73	25	16	57	120	25	M6
1	96	⅝	125	90	19	143	22	12	84	25	16	57	130	25	M6
1 ¼	120	⅝	135	100	19	173	26	15	99	26	26	69	180	45	M8
1 ½	150	¾	140	105	19	214	32	15	119	36	26	88	180	45	M8
2	150	¾	155	120	19	226	39	15	132	36	26	88	210	45	M8

Size
(inch)

**Lift =
Hx**
(mm)

½	7
¾	10
1	13
1 ¼	15
1 ½	19
2	23

DIASTAR TenPlus



**Diaphragm valve DIASTAR TenPlus PVC-U
FC (Fail safe to close)
Unions with solvent cement sockets BS**

Model:

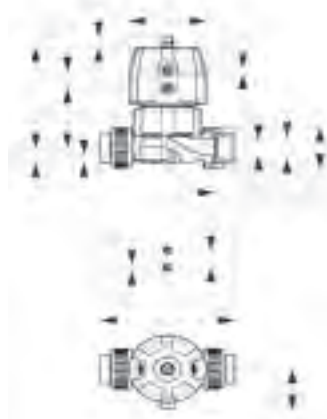
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

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

* PN: PTFE

Working Pressure: **both sides**



Size (inch)	DN (mm)	PN (psi)	PN* (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	150/150*	10/10*	125	161 684 512	0.990	161 684 532	1.000
¾	20	150/150*	10/10*	271	161 684 513	1.119	161 684 533	1.130
1	25	150/150*	10/10*	481	161 684 514	2.040	161 684 534	1.959
1 ¼	32	150/150*	10/10*	759	161 684 515	3.278	161 684 535	3.298
1 ½	40	150/150*	10/10*	1263	161 684 516	5.224	161 684 536	5.254
2	50	150/150*	10/10*	1728	161 684 517	6.326	161 684 537	6.142

Size (inch)	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)
½	96	⅝	127	14	12	68	25	16	57	128	25	M6	96	7
¾	96	⅝	132	18	12	73	25	16	57	152	25	M6	114	10
1	120	⅝	167	22	12	93	26	26	69	166	25	M6	122	13
1 ¼	150	⅝	196	26	15	101	36	26	88	192	45	M8	140	15
1 ½	180	⅝	239	32	15	124	37	26	103	222	45	M8	160	19
2	180	⅝	251	39	15	137	37	26	103	266	45	M8	190	23



Diaphragm valve DIASTAR TenPlus PVC-U
FC (Fail safe to close) low pressure
Unions with solvent cement sockets JIS

Model:

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

Option:

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

* PN: PTFE

Working Pressure: **both sides**



Size (inch)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10/8*	125	161 684 812	1.135	161 684 832	1.142
¾	20	10/8*	271	161 684 813	1.121	161 684 833	1.132
1	25	10/8*	481	161 684 814	1.943	161 684 834	1.963
1 ¼	32	10/8*	759	161 684 815	3.296	161 684 835	3.316
1 ½	40	10/8*	1263	161 684 816	6.336	161 684 836	5.284
2	50	10/6*	1728	161 684 817	6.130	161 684 837	6.158

Size (inch)	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)
½	96	¾	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	¾	132	18	12	73	25	16	57	152	25	M6	114	10
1	120	¾	167	22	12	93	26	26	69	166	25	M6	122	13
1 ¼	150	¾	196	26	15	101	36	26	88	192	45	M8	140	15
1 ½	180	¾	239	32	15	124	37	26	103	222	45	M8	160	19
2	180	¾	251	39	15	137	37	26	103	266	45	M8	190	23



Diaphragm valve DIASTAR TenPlus PVC-U
FC (Fail safe to close) low pressure
Unions with threaded sockets Rc

Model:

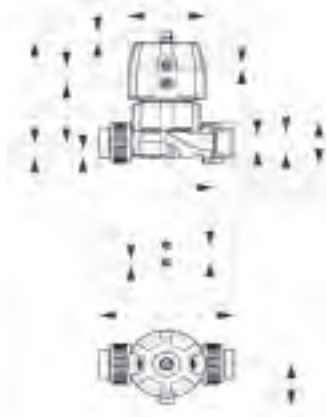
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

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

* PN: PTFE

Working Pressure: **both sides**



Rc	DN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
½	15	10/8*	125	161 684 912	1.131	161 684 932	1.142
¾	20	10/8*	271	161 684 913	1.123	161 684 933	1.134
1	25	10/8*	481	161 684 914	1.945	161 684 934	1.965
1 ¼	32	10/8*	759	161 684 915	3.292	161 684 935	3.312
1 ½	40	10/8*	1263	161 684 916	5.252	161 684 936	5.282
2	50	10/6*	1728	161 684 917	6.202	161 684 937	6.230

Rc	D	D1_G	H	H1	H2	H3	H4	H5	H7	L	L2	M	z	Lift = Hx
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	96	⅝	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	⅝	132	18	12	73	25	16	57	152	25	M6	114	10
1	120	⅝	167	22	12	93	26	26	69	166	25	M6	122	13
1 ¼	150	¾	196	26	15	101	36	26	88	192	45	M8	140	15
1 ½	180	¾	239	32	15	124	37	26	103	222	45	M8	160	19
2	180	¾	251	39	15	137	37	26	103	266	45	M8	190	23



Diaphragm valve DIASTAR TenPlus PVC-U
FC (Fail safe to close) low pressure
With fixed flanges PVC-U JIS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

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

* PN: PTFE

Working Pressure: **both sides**



Size	DN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
½	15	10/8*	125	161 687 912	1.122	161 687 932	1.132
¾	20	10/8*	271	161 687 913	1.220	161 687 933	1.231
1	25	10/8*	481	161 687 914	2.114	161 687 934	2.134
1 ¼	32	10/8*	759	161 687 915	3.604	161 687 935	3.624
1 ½	40	10/8*	1263	161 687 916	5.510	161 687 936	5.540
2	50	10/6*	1728	161 687 917	6.357	161 687 937	6.385

Size	D	D1_G	D3	D4	D5	H	H1	H2	H3	H4	H5	H7	L	L2	M
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
½	96	⅜	95	70	15	127	14	12	68	25	16	57	110	25	M6
¾	96	⅜	100	75	15	132	18	12	73	25	16	57	120	25	M6
1	120	⅜	125	90	19	167	22	12	93	26	26	69	130	25	M6
1 ¼	150	¼	135	100	19	196	26	15	101	36	26	88	180	45	M8
1 ½	180	¼	140	105	19	239	32	15	124	37	26	103	180	45	M8
2	180	¼	155	120	19	251	39	15	137	37	26	103	210	45	M8

Size	Lift =
(inch)	Hx
	(mm)
½	7
¾	10
1	13
1 ¼	15
1 ½	19
2	23

Pressure regulating valves

Pressure reducing valve type 582

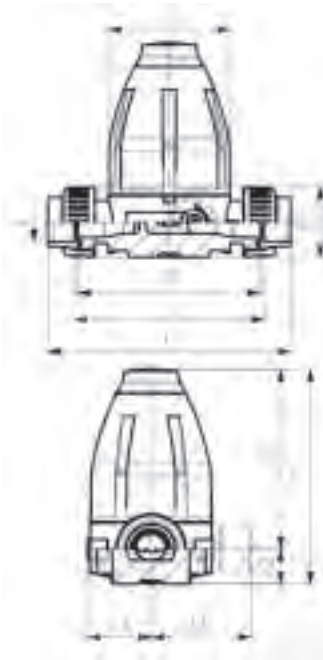


Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets Inch BS
With manometer

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



DN (mm)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FPM Code
15	10	161 582 322	0.730	161 582 332
20	10	161 582 323	1.520	161 582 333
25	10	161 582 324	1.550	161 582 334
32	10	161 582 325	4.100	161 582 335
40	10	161 582 326	4.270	161 582 336
50	10	161 582 327	4.500	161 582 337

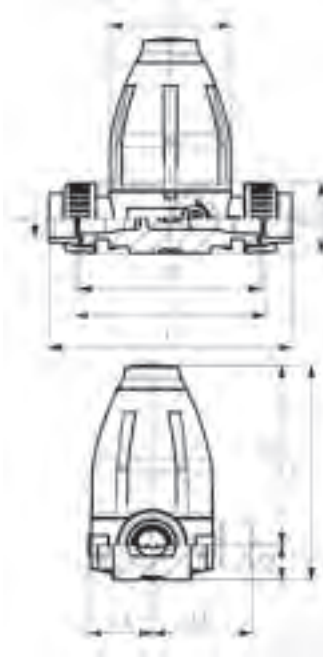
D	D1	H	H1	H2	H3	L	L2	L3	L4	L5	M	z	Inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(inch)
79	43	132	111	21	12	161	120	42	77	40	M6	126	1/2
100	51	177	148	29	14	198	150	53	88	46	M6	156	3/4
100	58	177	148	29	14	204	150	53	88	46	M6	156	1
147	72	251	207	44	21	266	205	76	111	65	M8	211	1 1/4
147	83	251	207	44	21	273	205	76	111	65	M8	211	1 1/2
147	101	251	207	44	21	285	205	76	111	65	M8	211	2



Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets JIS
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



DN (mm)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FPM Code
15	10	161 582 422	1.520	161 582 432
20	10	161 582 423	1.520	161 582 433
25	10	161 582 424	1.550	161 582 434
32	10	161 582 425	4.100	161 582 435
40	10	161 582 426	4.270	161 582 436
50	10	161 582 427	4.500	161 582 437

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)	Inch (inch)
100	51	177	148	29	14	194	150	53	88	46	M6	156	1/2
100	51	177	148	29	14	194	150	53	88	46	M6	156	3/4
100	58	177	148	29	14	200	150	53	88	46	M6	156	1
147	72	251	207	44	21	263	205	76	111	65	M8	211	1 1/4
147	83	251	207	44	21	273	205	76	111	65	M8	211	1 1/2
147	101	251	207	44	21	287	205	76	111	65	M8	211	2



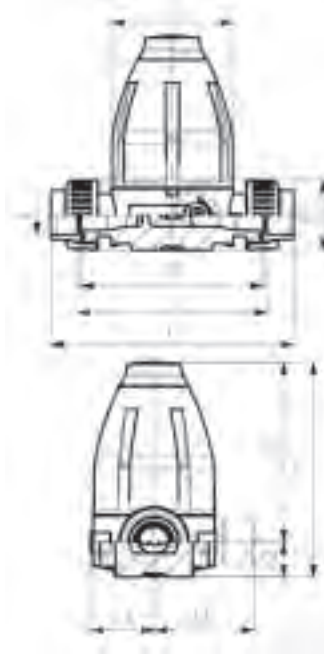
Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets Inch BS
Without manometer

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



DN (mm)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FPM Code
15	10	161 582 302	0.700	161 582 312
20	10	161 582 303	1.490	161 582 313
25	10	161 582 304	1.520	161 582 314
32	10	161 582 305	4.070	161 582 315
40	10	161 582 306	4.240	161 582 316
50	10	161 582 307	4.470	161 582 317

D	D1	H	H1	H2	H3	L	L2	L3	L5	M	z	Inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(inch)
79	43	132	111	21	12	161	120	42	40	M6	126	1/2
100	51	177	148	29	14	198	150	53	46	M6	156	3/4
100	58	177	148	29	14	204	150	53	46	M6	156	1
147	72	251	207	44	21	266	205	76	65	M8	211	1 1/4
147	83	251	207	44	21	273	205	76	65	M8	211	1 1/2
147	101	251	207	44	21	285	205	76	65	M8	211	2



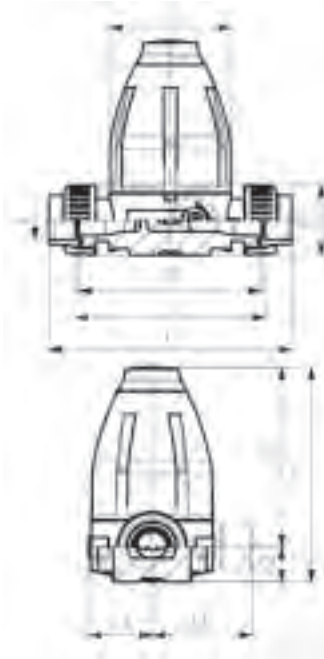
Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets JIS
Without manometer

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



DN (mm)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FPM Code
15	10	161 582 402	1.490	161 582 412
20	10	161 582 403	1.490	161 582 413
25	10	161 582 404	1.520	161 582 414
32	10	161 582 405	4.070	161 582 415
40	10	161 582 406	4.240	161 582 416
50	10	161 582 407	4.470	161 582 417

D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	L5 (mm)	M	z (mm)	Inch (inch)
100	51	177	148	29	14	194	150	53	46	M6	156	1/2
100	51	177	148	29	14	194	150	53	46	M6	156	3/4
100	58	177	148	29	14	200	150	53	46	M6	156	1
147	72	251	207	44	21	263	205	76	65	M8	211	1 1/4
147	83	251	207	44	21	273	205	76	65	M8	211	1 1/2
147	101	251	207	44	21	287	205	76	65	M8	211	2

Pressure retaining valve type 586



Pressure retaining valve type 586 PVC-U
 Unions with solvent cement sockets Inch BS
 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

DN (mm)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FPM Code
15	10	161 586 302	0.690	161 586 312
20	10	161 586 303	1.510	161 586 313
25	10	161 586 304	1.540	161 586 314
32	10	161 586 305	4.200	161 586 315
40	10	161 586 306	4.260	161 586 316
50	10	161 586 307	4.500	161 586 317

D	D1	H	H1	H2	H3	L	L2	L3	L5	M	z	Inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(inch)
79	43	132	111	21	12	161	120	42	40	M6	126	1/2
100	51	177	148	29	14	198	150	53	46	M6	156	3/4
100	58	177	148	29	14	204	150	53	46	M6	156	1
147	72	251	207	44	21	266	205	76	65	M8	211	1 1/4
147	83	251	207	44	21	273	205	76	65	M8	211	1 1/2
147	101	251	207	44	21	285	205	76	65	M8	211	2



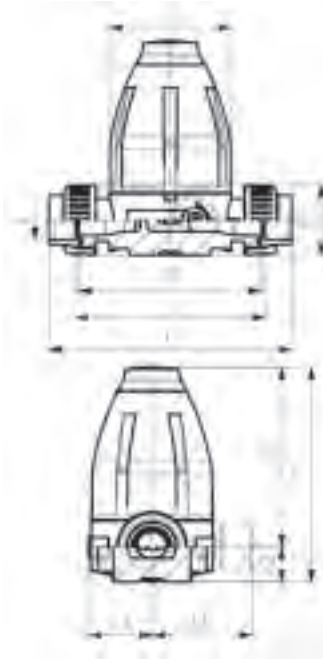
Pressure retaining valve type 586 PVC-U
Unions with solvent cement sockets JIS
Without manometer

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



DN (mm)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FPM Code
15	10	161 586 402	1.510	161 586 412
20	10	161 586 403	1.510	161 586 413
25	10	161 586 404	1.540	161 586 414
32	10	161 586 405	4.200	161 586 415
40	10	161 586 406	4.260	161 586 416
50	10	161 586 407	4.500	161 586 417

D	D1	H	H1	H2	H3	L	L2	L3	L5	M	z	Inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(inch)
100	51	177	148	29	14	194	150	53	46	M6	156	1/2
100	51	177	148	29	14	194	150	53	46	M6	156	3/4
100	58	177	148	29	14	200	150	53	46	M6	156	1
147	72	251	207	44	21	263	205	76	65	M8	211	1 1/4
147	83	251	207	44	21	273	205	76	65	M8	211	1 1/2
147	101	251	207	44	21	287	205	76	65	M8	211	2

3-Way ball valves electric



3-Way ball valve type 170 PVC-U OF
Vertical diverter ball 100-230V
With manual emergency override
With solvent cement sockets JIS

Model:

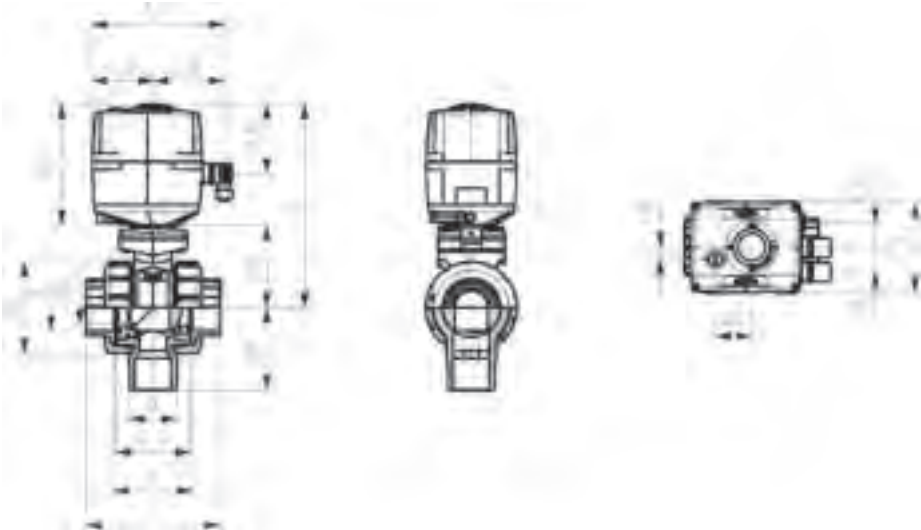
- Voltage 100-230 V, 50-60 Hz
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

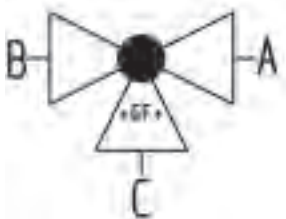
Option:

- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Size	DN	PN	kv-value	EA	EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)		Code	(kg)
			(l/min)			
½	15	10	77	EA25	199 170 393	3.550
¾	20	10	146	EA25	199 170 394	2.042
1	25	10	260	EA25	199 170 395	2.148
1 ¼	32	10	437	EA25	199 170 396	2.260
1 ½	40	10	667	EA25	199 170 397	2.543
2	50	10	1293	EA25	199 170 398	2.797

Size	D	H	H1	H2	H3	H5	L	L1	L2	L5	L6	L7	L8	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
½	50	231	62	64	94	167	95	180	56	97	83	122	33	64
¾	58	240	72	73	94	167	111	180	66	97	83	122	33	74
1	68	240	77	73	94	167	123	180	71	97	83	122	33	79
1 ¼	84	251	87	84	94	167	146	180	85	97	83	122	33	95
1 ½	97	251	97	84	94	167	157	180	89	97	83	122	33	95
2	124	273	112	106	94	167	183	180	101	97	83	122	33	107





3-Way ball valve type 185 PVC-U OF

Horizontal/L-port 100-230V

With manual emergency override

With solvent cement sockets JIS

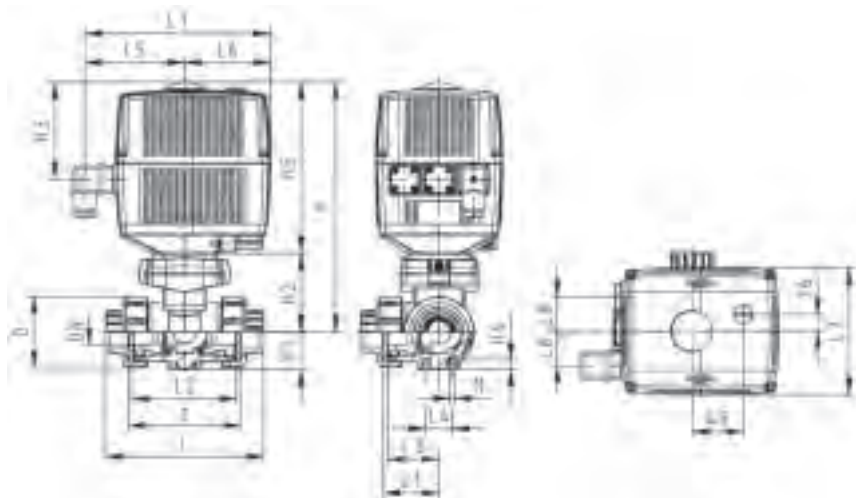
Model:

- 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
- Oil free

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	75	199 185 883	2.128	199 185 893	2.128
¾	20	10	150	199 185 884	2.256	199 185 894	2.256
1	25	10	280	199 185 885	2.446	199 185 895	2.446
1 ¼	32	10	480	199 185 886	2.870	199 185 896	2.870
1 ½	40	10	620	199 185 887	3.717	199 185 897	3.322
2	50	10	1230	199 185 888	4.683	199 185 898	4.683

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
½	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
¾	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
1	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
1 ¼	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
1 ½	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
2	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

Size (inch)	L8 (mm)	M (mm)	z (mm)	z1 (mm)
½	33	6	81	40
¾	33	6	94	47
1	33	6	107	54
1 ¼	33	8	130	65
1 ½	33	8	143	72
2	33	8	185	92

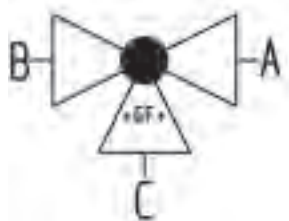




3-Way ball valve type 185 PVC-U OF
Horizontal/T-port 100-230V
With manual emergency override
With solvent cement sockets JIS

Model:

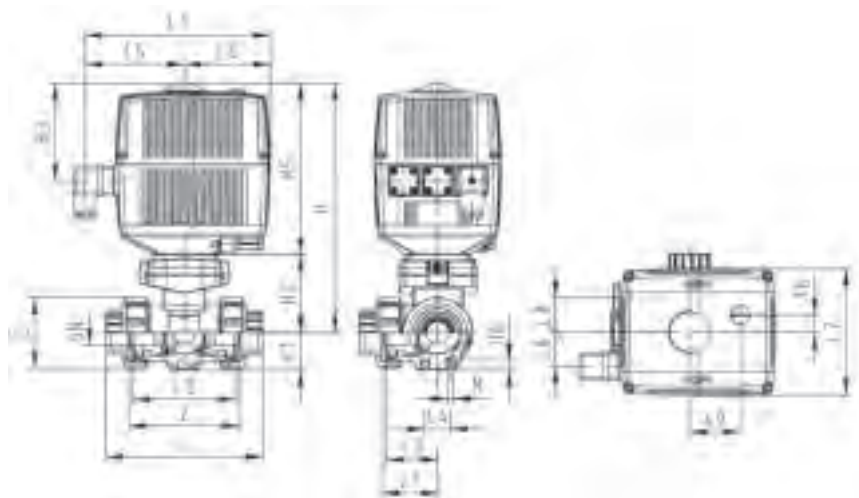
- Built on with electric actuator EA21
- Voltage 100-230 V, 50-60 Hz
- Control range 90°<
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<
- For easy installation and removal
- Integrated stainless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

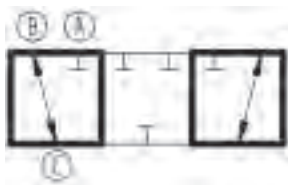
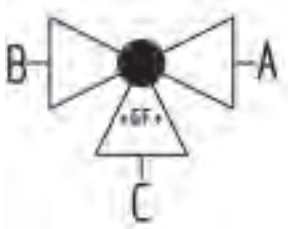


Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	200	199 185 903	2.127	199 185 913	2.127
¾	20	10	470	199 185 904	2.254	199 185 914	2.254
1	25	10	793	199 185 905	2.439	199 185 915	2.439
1 ¼	32	10	1290	199 185 906	2.859	199 185 916	2.859
1 ½	40	10	1910	199 185 907	3.301	199 185 917	3.301
2	50	10	3100	199 185 908	4.638	199 185 918	4.638

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
½	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
¾	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
1	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
1 ¼	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
1 ½	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
2	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

Size (inch)	L8 (mm)	M (mm)	z (mm)	z1 (mm)
½	33	6	81	40
¾	33	6	94	47
1	33	6	107	54
1 ¼	33	8	130	65
1 ½	33	8	143	72
2	33	8	185	92





3-Way ball valve type 188 PVC-U OF

Vertical/L-port 100-230V

With manual emergency override

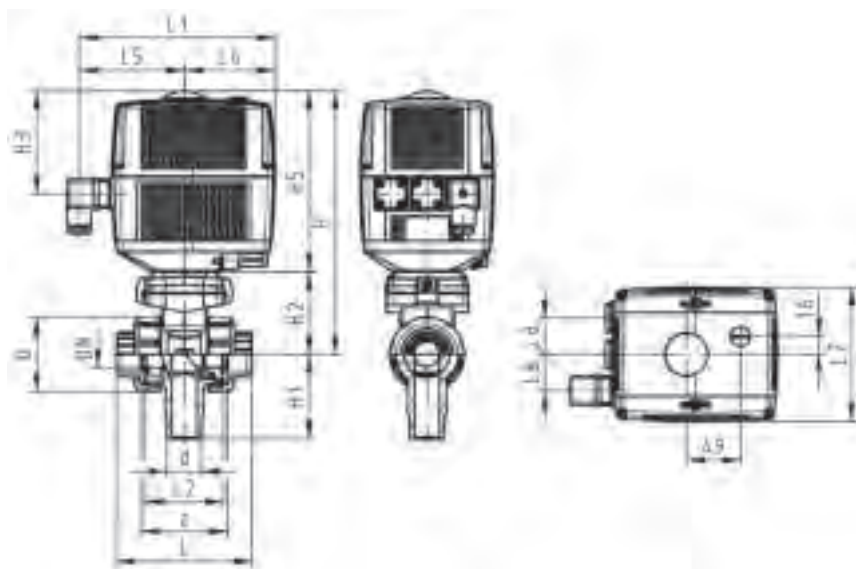
With solvent cement sockets JIS

Model:

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

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	77	199 188 353	3.212	199 188 363	3.595
¾	20	10	146	199 188 354	2.043	199 188 364	2.043
1	25	10	260	199 188 355	2.150	199 188 365	2.150
1 ¼	32	10	437	199 188 356	2.267	199 188 366	2.267
1 ½	40	10	667	199 188 357	2.554	199 188 367	2.554
2	50	10	1293	199 188 358	2.818	199 188 368	2.818

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)
½	50	231	62	64	94	167	95	180	56	97	83	122	33	64
¾	58	240	72	73	94	167	111	180	66	97	83	122	33	74
1	68	240	77	73	94	167	123	180	71	97	83	122	33	79
1 ¼	84	251	87	84	94	167	146	180	85	97	83	122	33	95
1 ½	97	251	97	84	94	167	157	180	89	97	83	122	33	95
2	124	273	112	106	94	167	183	180	101	97	83	122	33	107





3-Way ball valve type 188 PVC-U OF

Vertical/L-port 24V

With manual emergency override

With solvent cement sockets JIS

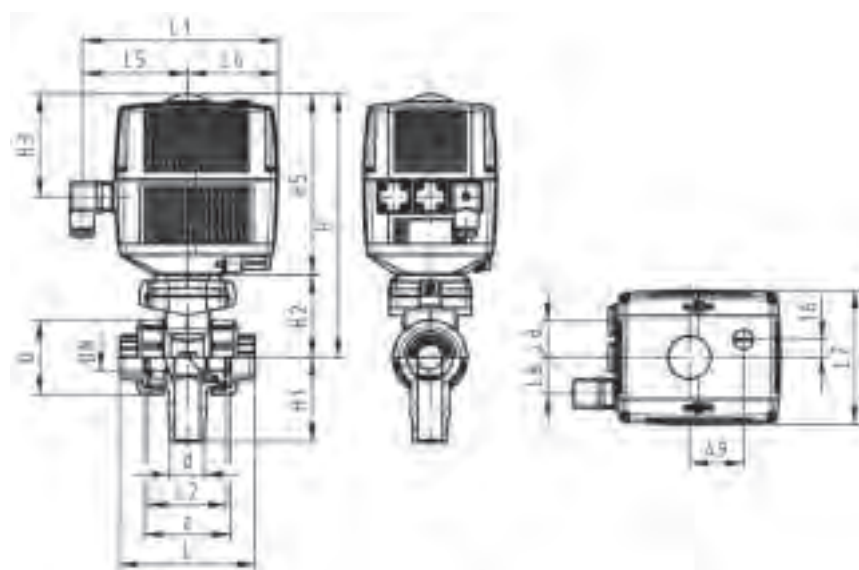
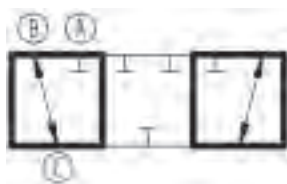
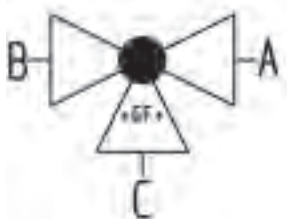
Model:

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

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
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½	15	10	77	199 188 443	3.550
¾	20	10	146	199 188 444	2.150
1	25	10	260	199 188 445	2.267
1 ¼	32	10	437	199 188 446	2.554
1 ½	40	10	667	199 188 447	2.818
2	50	10	1293	199 188 448	3.595

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)
½	50	231	62	64	94	167	95	180	56	97	83	122	33	64
¾	58	240	72	73	94	167	111	180	66	97	83	122	33	74
1	68	240	77	73	94	167	123	180	71	97	83	122	33	79
1 ¼	84	251	87	84	94	167	146	180	85	97	83	122	33	95
1 ½	97	251	97	84	94	167	157	180	89	97	83	122	33	95
2	124	273	112	106	94	167	183	180	101	97	83	122	33	107





3-Way ball valve type 188 PVC-U OF

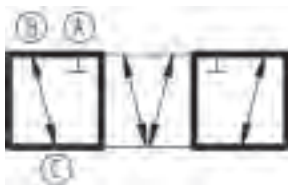
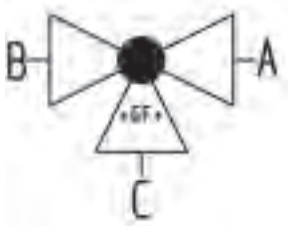
Vertical diverter ball 100-230V

With manual emergency override

With solvent cement sockets JIS

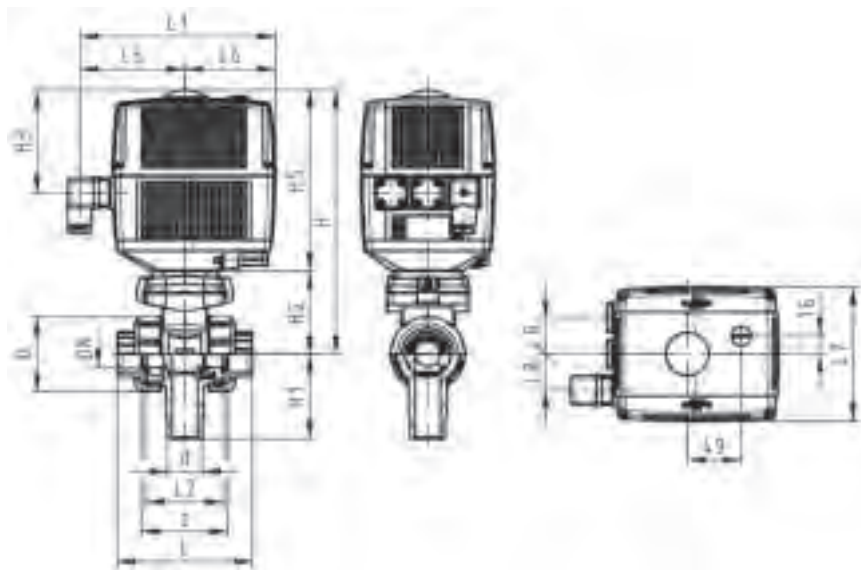
Model:

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

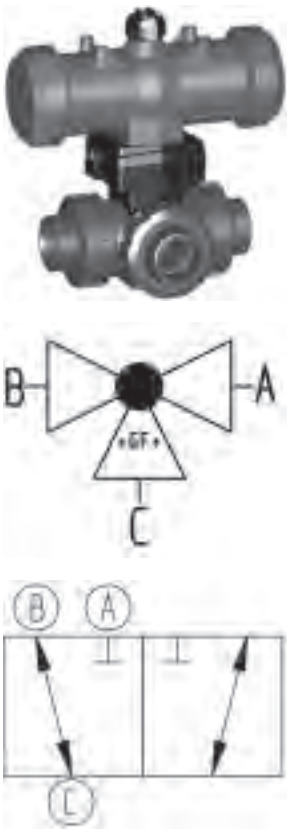


Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	77	199 188 393	3.550	199 188 403	3.550
¾	20	10	146	199 188 394	2.042	199 188 404	2.042
1	25	10	260	199 188 395	2.148	199 188 405	2.148
1 ¼	32	10	437	199 188 396	2.260	199 188 406	2.260
1 ½	40	10	667	199 188 397	2.543	199 188 407	2.543
2	50	10	1293	199 188 398	2.797	199 188 408	2.797

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)
½	50	231	62	64	94	167	95	180	56	97	83	122	33	64
¾	58	240	72	73	94	167	111	180	66	97	83	122	33	74
1	68	240	77	73	94	167	123	180	71	97	83	122	33	79
1 ¼	84	251	87	84	94	167	146	180	85	97	83	122	33	95
1 ½	97	251	97	84	94	167	157	180	89	97	83	122	33	95
2	124	273	112	106	94	167	183	180	101	97	83	122	33	107



3-Way ball valves pneumatic



3-Way ball valve type 285 PVC-U OF
Horizontal/L-port
Without manual override
With solvent cement sockets JIS

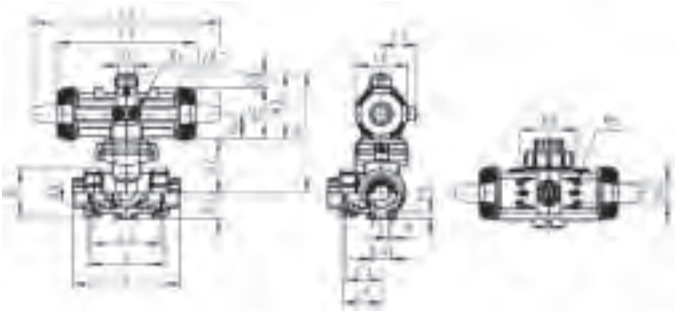
Model:

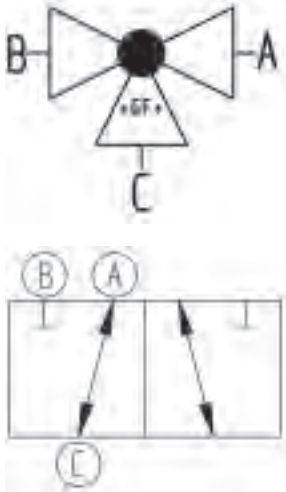
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts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

Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	75	199 285 883	1.121	199 285 893	1.121
¾	20	10	150	199 285 884	1.249	199 285 894	1.249
1	25	10	280	199 285 885	1.439	199 285 895	1.439
1 ¼	32	10	480	199 285 886	2.539	199 285 896	2.539
1 ½	40	10	620	199 285 887	2.991	199 285 897	2.991
2	50	10	1230	199 285 888	4.352	199 285 898	4.352

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
½	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
¾	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
1	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
1 ¼	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
1 ½	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
2	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

Size (inch)	L7 (mm)	M (mm)	z (mm)	z1 (mm)
½	48	6	81	40
¾	48	6	94	47
1	48	6	107	54
1 ¼	59	8	130	65
1 ½	59	8	143	72
2	59	8	185	92





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

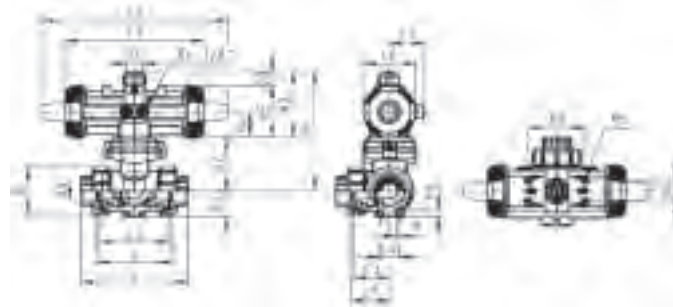
Model:

- 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
- Oil free

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
1/2	15	10	75	199 285 663	0.931	199 285 673	0.931
3/4	20	10	150	199 285 664	1.059	199 285 674	1.059
1	25	10	280	199 285 665	1.249	199 285 675	1.249
1 1/4	32	10	480	199 285 666	2.115	199 285 676	2.115
1 1/2	40	10	620	199 285 667	2.567	199 285 677	2.567
2	50	10	1230	199 285 668	3.928	199 285 678	3.928

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
1/2	50	159	28	62	97	40	77	8	112	194	73	36	25	261	76
3/4	58	168	32	71	97	40	77	8	131	194	86	43	25	261	76
1	68	168	36	71	97	40	77	8	151	194	99	50	25	261	76
1 1/4	84	203	45	84	119	51	99	9	181	224	120	60	45	305	95
1 1/2	97	203	51	84	119	51	99	9	205	224	137	69	45	305	95
2	124	225	65	106	119	51	99	9	261	224	179	89	45	305	95

Size (inch)	L7 (mm)	M (mm)	z (mm)	z1 (mm)
1/2	48	6	81	40
3/4	48	6	94	47
1	48	6	107	54
1 1/4	59	8	130	65
1 1/2	59	8	143	72
2	59	8	185	92

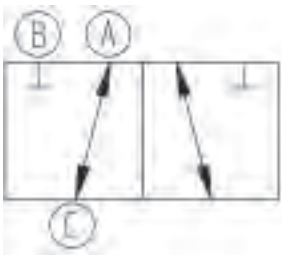




3-Way ball valve type 288 PVC-U OF
Vertical diverter ball
Without manual override
With solvent cement sockets JIS

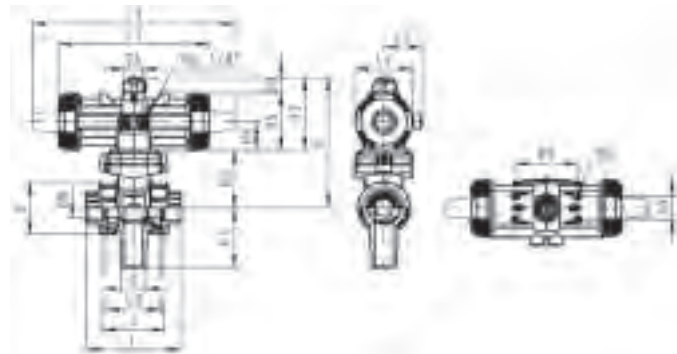
Model:

- Vertical inlet solvent cement spigot metric
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- Easy installation and removal using union on third outlet
- Oil free



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	77	199 288 143	1.035	199 288 153	1.035
¾	20	10	146	199 288 144	1.141	199 288 154	1.141
1	25	10	260	199 288 145	1.253	199 288 155	1.253
1 ¼	32	10	437	199 288 146	2.212	199 288 156	2.212
1 ½	40	10	667	199 288 147	2.466	199 288 157	2.466
2	50	10	1293	199 288 148	3.219	199 288 158	3.219

Size (inch)	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)	z (mm)
½	50	159	62	62	97	40	77	95	194	56	261	76	48	64
¾	58	168	72	71	97	40	77	111	194	66	261	76	48	74
1	68	168	77	71	97	40	77	123	194	71	261	76	48	79
1 ¼	84	203	87	84	119	51	99	146	224	85	305	95	59	95
1 ½	97	203	97	84	119	51	99	157	224	89	305	95	59	95
2	124	225	112	106	119	51	99	183	224	101	305	95	59	107



Diaphragm valves pneumatic

DIASTAR Six



Diaphragm valve DIASTAR Six PVC-U SF
FC (Fail safe to close)
With fixed flanges PVC-U JIS

Model:

- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve (see diagram)



Size	DN	PN	kv-value	EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
½	15	6	125	161 617 922	0.696
¾	20	6	271	161 617 923	1.145
1	25	6	481	161 617 924	1.448
1 ¼	32	6	759	161 617 925	2.384
1 ½	40	6	960	161 617 926	2.964
2	50	6	1181	161 617 927	4.029

Size	D	D1_G	D3	D4	D5	H	H1	H2	H3	H7	L	L2	M	Lift = Hx
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
½	68	¾	95	70	15	101	14	12	60	43	110	25	M6	7
¾	96	¾	100	75	15	132	18	12	73	57	120	25	M6	10
1	96	¾	125	90	15	143	22	12	84	57	130	25	M6	13
1 ¼	120	¾	135	100	19	173	26	15	99	69	180	45	M6	14
1 ½	120	¾	140	105	19	193	32	15	119	69	180	45	M6	16
2	120	¾	155	120	19	205	39	15	132	69	210	45	M6	16

DIASTAR Ten



Diaphragm valve DIASTAR Ten PVC-U SF
FC (Fail safe to close)
With fixed flanges PVC-U JIS

Model:

- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

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

* PN: PTFE

Working Pressure: **one side**

Size (inch)	DN (mm)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10/10*	125	161 627 922	0.722	161 627 972	0.732
¾	20	10/10*	271	161 627 923	1.220	161 627 973	1.231
1	25	10/10*	481	161 627 924	1.520	161 627 974	1.540
1 ¼	32	10/10*	759	161 627 925	2.534	161 627 975	2.554
1 ½	40	10/10*	1263	161 627 926	4.102	161 627 976	4.132
2	50	10/6*	1728	161 627 927	4.950	161 627 977	4.978

Size (inch)	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)	M
½	68	⅜	95	70	15	101	14	12	60	24	16	43	110	25	M6
¾	96	⅜	100	75	15	132	18	12	73	25	16	57	120	25	M6
1	96	⅜	125	90	19	143	22	12	84	25	16	57	130	25	M6
1 ¼	120	⅜	135	100	19	173	26	15	99	26	26	69	180	45	M8
1 ½	150	⅜	140	105	19	193	32	15	119	36	26	88	180	45	M8
2	150	⅜	155	120	19	205	39	15	132	36	26	88	210	45	M8

Size (inch)	Lift = Hx (mm)
½	7
¾	10
1	13
1 ¼	15
1 ½	19
2	23



Diaphragm valve DIASTAR Ten PVC-U SF
FO (Fail safe to open)
With fixed flanges PVC-U JIS

Model:

- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

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

* PN: PTFE

Working Pressure: **one side**



Size	DN	PN*	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(L/min)				
½	15	10/10*	125	161 647 922	0.672	161 647 972	0.682
¾	20	10/10*	271	161 647 923	1.046	161 647 973	1.057
1	25	10/10*	481	161 647 924	1.340	161 647 974	1.360
1 ¼	32	10/10*	759	161 647 925	2.174	161 647 975	2.194
1 ½	40	10/10*	1263	161 647 926	4.012	161 647 976	4.042
2	50	10/10*	1728	161 647 927	4.860	161 647 977	4.888

Size	D	D1_G	D3	D4	D5	H	H1	H2	H3	H4	H5	H7	L	L2	M
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
½	68	⅝	95	70	15	101	14	12	60	24	16	43	110	25	M6
¾	96	⅞	100	75	15	132	18	12	73	25	16	57	120	25	M6
1	96	⅞	125	90	19	143	22	12	84	25	16	57	130	25	M6
1 ¼	120	⅞	135	100	19	173	26	15	99	26	26	69	180	45	M8
1 ½	150	⅞	140	105	19	214	32	15	119	36	26	88	180	45	M8
2	150	⅞	155	120	19	226	39	15	132	36	26	88	210	45	M8

Size	Lift =
(inch)	Hx
	(mm)
½	7
¾	10
1	13
1 ¼	15
1 ½	19
2	23



Diaphragm valve DIASTAR Ten PVC-U SF
DA (Double acting)
With fixed flanges PVC-U JIS

Model:

- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

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

* PN: PTFE

Working Pressure: **one side**

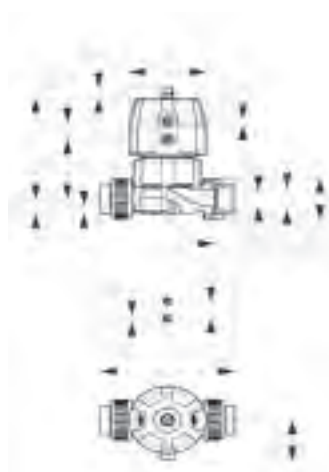


Size (inch)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (L/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10/10*	125	161 657 922	0.656	161 657 972	0.666
¾	20	10/10*	271	161 657 923	1.010	161 657 973	1.021
1	25	10/10*	481	161 657 924	1.310	161 657 974	1.330
1 ¼	32	10/10*	759	161 657 925	2.114	161 657 975	2.134
1 ½	40	10/10*	1263	161 657 926	3.262	161 657 976	3.292
2	50	10/10*	1728	161 657 927	4.110	161 657 977	4.138

Size (inch)	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)	M
½	68	⅜	95	70	15	101	14	12	60	24	16	43	110	25	M6
¾	96	⅜	100	75	15	132	18	12	73	25	16	57	120	25	M6
1	96	⅜	125	90	19	143	22	12	84	25	16	57	130	25	M6
1 ¼	120	⅜	135	100	19	173	26	15	99	26	26	69	180	45	M8
1 ½	150	⅜	140	105	19	214	32	15	119	36	26	88	180	45	M8
2	150	⅜	155	120	19	226	39	15	132	36	26	88	210	45	M8

Size (inch)	Lift = Hx (mm)
½	7
¾	10
1	13
1 ¼	15
1 ½	19
2	23

DIASTAR TenPlus



Diaphragm valve DIASTAR TenPlus PVC-U OF
FC (Fail safe to close) low pressure
Unions with solvent cement sockets JIS

Model:

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

Option:

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

* PN: PTFE

Working Pressure: **both sides**

Size (inch)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10/8*	125	161 684 822	1.131	161 684 872	1.142
¾	20	10/8*	271	161 684 823	1.121	161 684 873	1.132
1	25	10/8*	481	161 684 824	2.046	161 684 874	1.963
1 ¼	32	10/8*	759	161 684 825	3.296	161 684 875	3.316
1 ½	40	10/8*	1263	161 684 826	5.254	161 684 876	5.284
2	50	10/6*	1728	161 684 827	6.130	161 684 877	6.158

Size (inch)	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)
½	96	⅝	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	⅝	132	18	12	73	25	16	57	152	25	M6	114	10
1	120	⅝	167	22	12	93	26	26	69	166	25	M6	122	13
1 ¼	150	⅝	196	26	15	101	36	26	88	192	45	M8	140	15
1 ½	180	⅝	239	32	15	124	37	26	103	222	45	M8	160	19
2	180	⅝	251	39	15	137	37	26	103	266	45	M8	190	23



**Diaphragm valve DIASTAR TenPlus PVC-U OF
FC (Fail safe to close) low pressure
Unions with threaded sockets Rc**

Model:

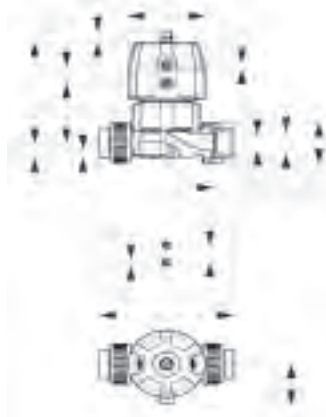
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Oil free
- Short overall length

Option:

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

* PN: PTFE

Working Pressure: **both sides**



Rc (inch)	DN (mm)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
1/2	15	10/8*	125	161 684 922	1.131	161 684 972	1.142
3/4	20	10/8*	271	161 684 923	1.123	161 684 973	1.134
1	25	10/8*	481	161 684 924	1.945	161 684 974	1.965
1 1/4	32	10/8*	759	161 684 925	3.292	161 684 975	3.312
1 1/2	40	10/8*	1263	161 684 926	5.252	161 684 976	5.282
2	50	10/6*	1728	161 684 927	6.202	161 684 977	6.230

Rc (inch)	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)
1/2	96	1/8	132	18	12	73	25	16	57	152	25	M6	120	10
3/4	96	1/8	132	18	12	73	25	16	57	152	25	M6	114	10
1	120	1/8	167	22	12	93	26	26	69	166	25	M6	122	13
1 1/4	150	1/4	196	26	15	101	36	26	88	192	45	M8	140	15
1 1/2	180	1/4	239	32	15	124	37	26	103	222	45	M8	160	19
2	180	1/4	251	39	15	137	37	26	103	266	45	M8	190	23



**Diaphragm valve DIASTAR TenPlus PVC-U OF
FC (Fail safe to close) low pressure
With fixed flanges PVC-U JIS**

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Oil free
- Connecting dimension: JIS B2238/39 10K

Option:

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

* PN: PTFE

Working Pressure: **both sides**



Size (inch)	DN (mm)	PN* (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
1/2	15	10/8*	125	161 687 922	1.122	161 687 972	1.132
3/4	20	10/8*	271	161 687 923	1.220	161 687 973	1.231
1	25	10/8*	481	161 687 924	2.114	161 687 974	2.134
1 1/4	32	10/8*	759	161 687 925	3.604	161 687 975	3.624
1 1/2	40	10/8*	1263	161 687 926	5.510	161 687 976	5.540
2	50	10/6*	1728	161 687 927	6.357	161 687 977	6.385

Size (inch)	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)	M
1/2	96	1/8	95	70	15	127	14	12	68	25	16	57	110	25	M6
3/4	96	1/8	100	75	15	132	18	12	73	25	16	57	120	25	M6
1	120	1/8	125	90	19	167	22	12	93	26	26	69	130	25	M6
1 1/4	150	1/4	135	100	19	196	26	15	101	36	26	88	180	45	M8
1 1/2	180	1/4	140	105	19	239	32	15	124	37	26	103	180	45	M8
2	180	1/4	155	120	19	251	39	15	137	37	26	103	210	45	M8

Size (inch)	Lift = Hx (mm)
1/2	7
3/4	10
1	13
1 1/4	15
1 1/2	19
2	23

Electric and pneumatic actuators

Electric actuators



Electric actuator type EA25/45/120/250

Model:

- Heating element, position feedback (Open/Close/ Middle)

Option:

- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

*with adapter 198 000 587 F05 / WS 11, 198 204 057 F05 / WS 14

Type of actuator	Voltage	Torque nominal	Torque maximal	Interfaces	Code
EA25	100 -230V AC	10 Nm	25 Nm	F05* (WS 11/14)	198 153 182
EA25	24V AC/DC	10 Nm	25 Nm	F05* (WS 11/14)	198 153 183
EA45	100 -230V AC	20 Nm	45 Nm	F05* (WS 11/14)	198 153 184
EA45	24V AC/DC	20 Nm	45 Nm	F05* (WS 11/14)	198 153 185
EA120	100 -230V AC	60 Nm	120 Nm	F07 (WS17)	198 153 186
EA120	24V AC/DC	60 Nm	120 Nm	F07 (WS17)	198 153 187
EA250	100 -230V AC	100 Nm	250 Nm	F07 (WS17)	198 153 188
EA250	24V AC/DC	100 Nm	250 Nm	F07 (WS17)	198 153 189

Type of actuator	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)
EA25	167	188	150	82.5	107	64.3	122	16	49	33	33
EA25	167	188	150	82.5	107	64.3	122	16	49	33	33
EA45	167	188	150	82.5	107	64.3	122	16	49	33	33
EA45	167	188	150	82.5	107	64.3	122	16	49	33	33
EA120	190	212	150	82.5	107	64.3	122	16	49	33	33
EA120	190	212	150	82.5	107	64.3	122	16	49	33	33
EA250	200	221	150	82.5	107	64.3	122	16	49	33	33
EA250	200	221	150	82.5	107	64.3	122	16	49	33	33



Pneumatic rotary actuators PA

Type PA11 / PA21



Pneumatic actuator type PA11/PA21
Fail safe to close (FC)

Inch (inch)	Type	DN-DN (mm)	Code	Weight (kg)
3/8 - 1	PA 11 FC	10 - 25	198 150 127	0.769
1 1/4 - 2	PA 21 FC	32 - 50	198 150 130	1.445



Pneumatic actuator type PA11/PA21
Fail safe to open (FO)

Inch (inch)	Type	DN-DN (mm)	Code	Weight (kg)
3/8 - 1	PA 11 FO	10 - 25	198 150 128	0.775
1 1/4 - 2	PA 21 FO	32 - 50	198 150 131	1.419



Pneumatic actuator type PA11/PA21
Double action (DA)

Inch (inch)	Type	DN-DN (mm)	Code	Weight (kg)
3/8 - 1	PA 11 DA	10 - 25	198 150 129	0.542
1 1/4 - 2	PA 21 DA	32 - 50	198 150 132	0.995



Pneumatic actuator type PA11/PA21
Fail safe to close (FC) with stroke limiter

Inch (inch)	Type	DN-DN (mm)	Code	Weight (kg)
3/8 - 1	PA 11 FC	10 - 25	198 150 144	0.854
1 1/4 - 2	PA 21 FC	32 - 50	198 150 147	1.609



Pneumatic actuator type PA11/PA21
Fail safe to open (FO) with stroke limiter

Inch (inch)	Type	DN-DN (mm)	Code	Weight (kg)
3/8 - 1	PA 11 FO	10 - 25	198 150 145	0.837
1 1/4 - 2	PA 21 FO	32 - 50	198 150 148	1.609



Pneumatic actuator type PA11/PA21
Double action (DA) with stroke limiter

Type	Inch (inch)	DN-DN (mm)	Code	Weight (kg)
PA 11 DA	3/8 - 1	10 - 25	198 150 146	0.647
PA 21 DA	1 1/4 - 2	32 - 50	198 150 149	1.185

Type PA30 / PA90



Pneumatic actuator type PA30 PA90
Fail safe to close/fail safe to open (FC/FO)

* Only valid for butterfly valve type 240, 241, 242 and ball valve type 230 - 235

Type	hard anodized Code	Weight (kg)	nickel plated Code	Weight (kg)	hard anodized with stroke limiter Code	Weight (kg)
PA 30 FC/FO	198 800 757	2.022	198 800 034	2.400		
* PA 30 FO	198 811 025	2.020				
PA 35 FC/FO	198 800 037	2.673	198 800 052	2.400		
* PA 35 FO	198 811 026	2.675				
PA 40 FC/FO	198 800 728	3.602	198 800 004	3.598	198 800 017	3.598
* PA 40 FO	198 811 027	3.623				
PA 45 FC/FO	198 800 039	4.962	198 800 054	4.600		
* PA45 FO	198 811 028	4.944				
PA 50 FC/FO	198 800 729	6.921	198 800 005	6.921	198 800 018	6.921
* PA50 FO	198 811 029	6.819				
PA 55 FC/FO	198 800 041	9.354	198 800 056	9.400		
* PA 55 FO	198 811 030	9.203				
PA 60 FC/FO	198 800 730	11.371	198 800 006	12.895	198 800 019	12.895
PA 65 FC/FO	198 800 043	15.900	198 800 058	15.900		
PA 70 FC/FO	198 800 731	18.758	198 800 007	19.496	198 800 020	19.496
* PA 70 FO	198 811 198	18.750				
PA 75 FC/FO	198 800 045	26.700	198 800 060	26.700		
PA 80 FC/FO	198 800 047	34.400	198 800 062	34.400		

Type	epoxy coated Code	Weight (kg)
PA 30 FC/FO	198 811 194	2.400
* PA 30 FO		
PA 35 FC/FO	198 800 029	2.400
* PA 35 FO		
PA 40 FC/FO	198 800 025	3.598
* PA 40 FO		
PA 45 FC/FO		
* PA45 FO		
PA 50 FC/FO	198 800 026	6.921
* PA50 FO		
PA 55 FC/FO	198 811 190	9.424
* PA 55 FO		
PA 60 FC/FO		
PA 65 FC/FO		
PA 70 FC/FO	198 800 028	19.496
* PA 70 FO		
PA 75 FC/FO		
PA 80 FC/FO		

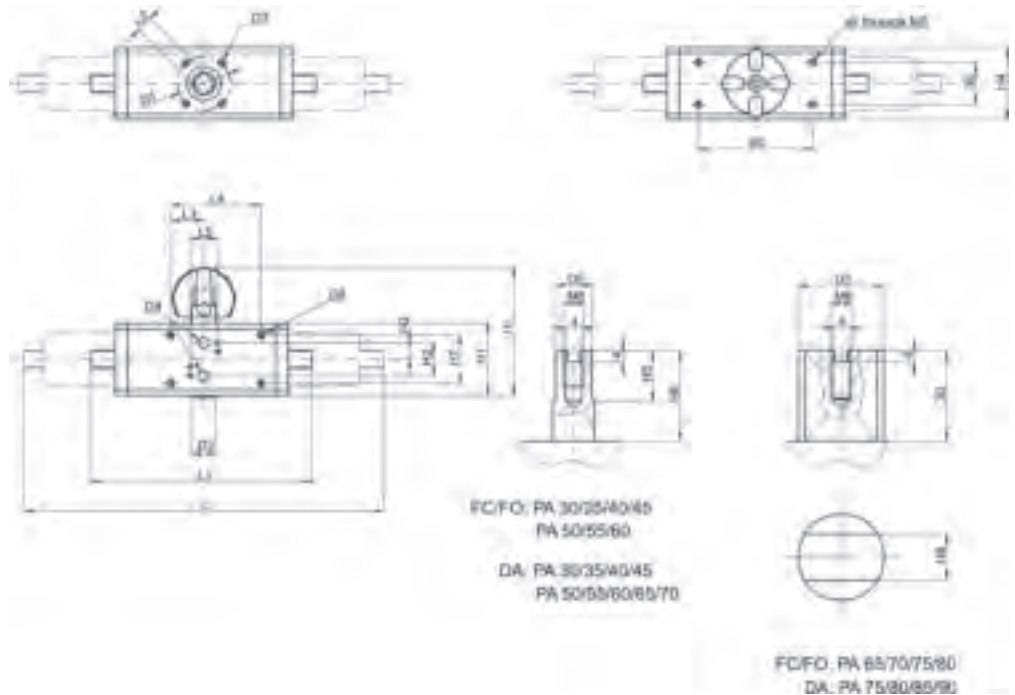
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	Type		D1 (mm)	D2 (mm)	D3[M] (mm)	D4 (inch)	D5 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	H (mm)
	PA 30 FC/FO	F04	42	30	M5x9		10	276	11	35	70	32	102
*	PA 30 FO	F04	42	30	M5x9	⅛	10	276	11	35	70	32	102
	PA 35 FC/FO	F05	50	35	M6x11		12	326	14	35	70	32	111
*	PA 35 FO	F05	50	35	M6x11	⅛	12	326	14	35	70	32	111
	PA 40 FC/FO	F05	50	35	M6x11		12	370	14	35	70	32	129
*	PA 40 FO	F05	50	35	M6x11	⅛	12	370	14	35	70	32	129
	PA 45 FC/FO	F07	70	55	M8x15	⅛	15	411	17	35	70	32	139
*	PA45 FO	F07	70	55	M8x15	⅛	15	411	17	35	70	32	139
	PA 50 FC/FO	F07	70	55	M8x15		15	423	17	35	70	32	149
*	PA50 FO	F07	70	55	M8x15	⅛	15	423	17	35	70	32	149
	PA 55 FC/FO	F10	102	70	M10x17		19	452	22	35	70	32	161
*	PA 55 FO	F10	102	70	M10x17	⅛	19	452	22	35	70	32	161
	PA 60 FC/FO	F10	102	70	M10x17	⅛	19	503	22	35	70	32	173
	PA 65 FC/FO	F12	125	85	M12x21	¼		648	27			32	191
	PA 70 FC/FO	F12	125	85	M12x21			663	27			32	196
*	PA 70 FO	F12	125	85	M12x21	¼		663	27			32	196
	PA 75 FC/FO	F14	140	100	M16x25	¼		824	36			32	229
	PA 80 FC/FO	F14	140	100	M16x25	¼		918	36			32	241

	Type	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H8 (mm)
	PA 30 FC/FO	70	21	18	65	13	20	36	
*	PA 30 FO	70	21	18	65	13	20	36	
	PA 35 FC/FO	78	21	18	72	13	20	36	
*	PA 35 FO	78	21	18	72	13	20	36	
	PA 40 FC/FO	86	25	21	80	13	30	36	
*	PA 40 FO	86	25	21	80	13	30	36	
	PA 45 FC/FO	96	25	21	90	16	30	36	
*	PA45 FO	96	25	21	90	16	30	36	
	PA 50 FC/FO	106	25	26	100	17	30	36	
*	PA50 FO	106	25	26	100	17	30	36	
	PA 55 FC/FO	118	25	25	112	19	30	36	
*	PA 55 FO	118	25	25	112	19	30	36	
	PA 60 FC/FO	130	25	32	124	19	30	36	
	PA 65 FC/FO	148	24	34	137				22

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Type	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H8 (mm)
PA 70 FC/FO	153	24	38	145				24
* PA 70 FO	153	24	38	145				24
PA 75 FC/FO	186	24	43	166				27
PA 80 FC/FO	198	24	44	180				32



Pneumatic actuator type PA30 PA90 Double acting (DA)

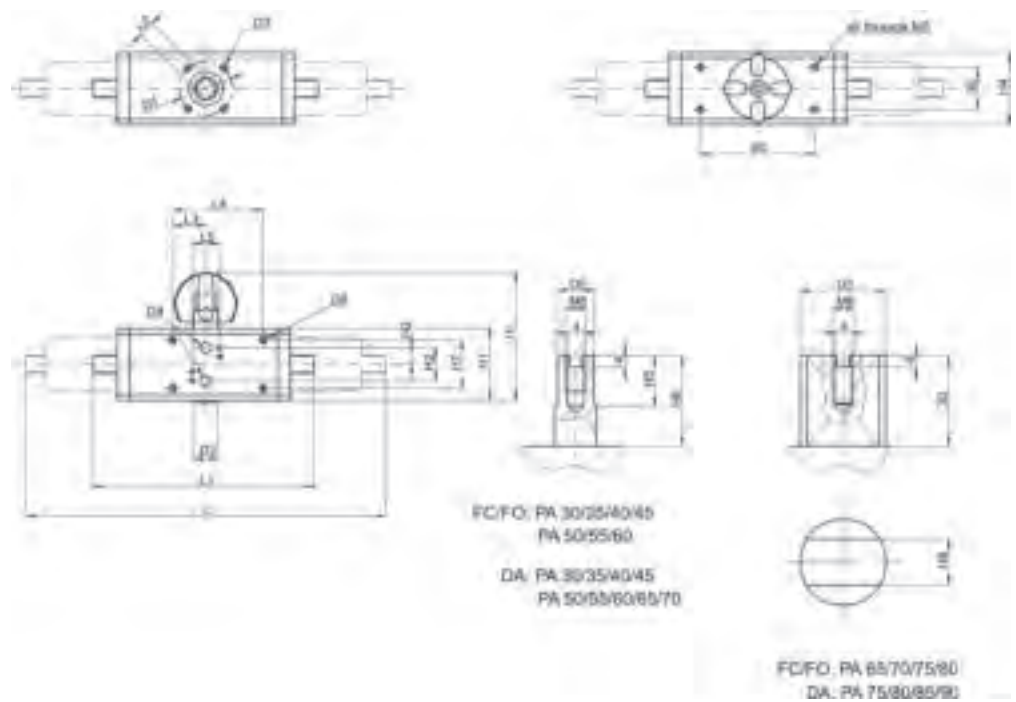
Type	hard anodized Code	Weight (kg)
PA 30 DA	198 800 737	1.004
PA 35 DA	198 800 758	1.346
PA 40 DA	198 800 759	1.731
PA 45 DA	198 800 040	2.155
PA 50 DA	198 800 733	2.981
PA 55 DA	198 800 042	3.892
PA 60 DA	198 800 734	5.647
PA 65 DA	198 800 044	7.293
PA 70 DA	198 800 735	9.008
PA 75 DA	198 800 046	12.000
PA 80 DA	198 800 048	14.000
PA 85 DA	198 800 050	21.527
PA 90 DA	198 800 051	25.400

H7 (mm)	D5 (mm)	H6 (mm)	L4 (mm)	L3 (mm)	H5 (mm)	D3[M] (mm)	D1 (mm)	D2 (mm)	D4 (inch)	L1 (mm)	L2 (mm)	L5 (mm)	H (mm)	H1 (mm)
36	9	20	70	35	10	M5x9	F03	36	25	1/8	177	9	92	60
36	10	20	70	35	13	M5x9	F03	42	30	1/8	190	11	98	66
36	10	20	70	35	13	M5x9	F05	42	30	1/8	198	11	102	70
36	12	20	70	35	13	M6x11	F05	50	35	1/8	235	14	111	78
36	12	30	70	35	13	M6x11	F05	50	35	1/8	250	14	129	86
36	15	30	70	35	16	M8x15	F07	70	55	1/8	279	17	139	96
36	15	30	70	35	17	M8x15	F07	70	55	1/8	341	17	149	106
36	19	30	70	35	19	M10x17	F10	102	70	1/8	350	22	161	118
36	19	30	70	35	19	M10x17	F10	102	70	1/8	381	22	173	130

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H7	D5	H6	L4	L3	H5	D3[M]	D1	D2	D4	L1	L2	L5	H	H1	
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	
						M12x21	F12	125	85	¼	416	27	32	191	148
						M12x21	F12	125	85	¼	466	27	32	197	153
						M16x25	F14	140	100	¼	555	36	32	229	186
						M16x25	F14	140	100	¼	581	36	32	241	198

H2	H3	H4	H8
(mm)	(mm)	(mm)	(mm)
25	12	55	
25	13	60	
21	18	65	
21	18	72	
25	21	80	
25	21	90	
25	26	100	
25	25	112	
25	32	124	
24	34	137	22
24	38	145	24
24	43	166	27
24	44	180	32



Spare parts for automatic valves Diastar Six/Ten/Sixteen



Actuators

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	Diastar Six Code	Diastar Ten Code	Diastar Ten + FC Code	Diastar Sixteen FC Code	Diastar Ten FO Code	Diastar Ten DA Code
20	198 151 762	198 151 772	198 153 062	198 151 782	198 151 792	198 151 802
25	198 151 763	198 151 773	198 153 063	198 151 783	198 151 793	198 151 803
32	198 151 764	198 151 774	198 153 064	198 151 784	198 151 794	198 151 804
40	198 151 765	198 151 775	198 153 065	198 151 785	198 151 795	198 151 805
50	198 151 766	198 151 776	198 153 066	198 151 786	198 151 796	198 151 806
63	198 151 767	198 151 777	198 153 067	198 151 787	198 151 797	198 151 807

Indicator cap

Size (mm)	Code
1-2	198 806 639
3-5	198 806 640



Compressor set

Model:

- Incl. diaphragm holder

d (mm)	Inch (inch)	DN (mm)	Code
20	1/2	15	198 000 872
25	3/4	20	198 000 873
32	1	25	198 000 874
40	1 1/4	32	198 000 875
50	1 1/2	40	198 000 876
63	2	50	198 000 877



Seal set

Model:

- Spindle seal and piston seal

Size (mm)	Diastar Six/ Ten/Sixteen Code	Only for Diastar Six DN40/DN50 Code
Gr. 1	198 000 881	
Gr. 2	198 000 882	
Gr. 3	198 000 883	198 000 886
Gr. 4	198 000 884	
Gr. 5	198 000 885	

Spare parts for hand-operated valves Type 514/515/517/519



Bonnet complete

d (mm)	Size (inch)	DN (mm)	Standard configuration PN10 Code	For pressure tight housing PN10 Code	Standard configuration PN16 Code	For pressure tight housing PN16 Code
20	¾	15	198 151 742	198 151 752	198 151 842	198 151 852
25	¾	20	198 151 743	198 151 753	198 151 843	198 151 853
32	1	25	198 151 744	198 151 754	198 151 844	198 151 854
40	1 ¼	32	198 151 745	198 151 755	198 151 845	198 151 855
50	1 ½	40	198 151 746	198 151 756	198 151 846	198 151 856
63	2	50	198 151 747	198 151 757	198 151 847	198 151 857

Spindle assembly

Model:

- Incl. spindle nut and operation unit

DN-DN (mm)	Code
15 - 20	198 204 327
25 - 32	198 204 328
40 - 50	198 204 329

Position indicator

d (mm)	Size (inch)	DN (mm)	Code
20	¾	15	167 484 992
25	¾	20	167 484 993
32	1	25	167 484 994
40	1 ¼	32	167 484 995
50	1 ½	40	167 484 996
63	2	50	167 484 997



Hand wheel

Model:

- Without position indicator

DN (mm)	Code
15 - 20	198 204 162
25 - 32	198 204 164
40 - 50	198 104 166



Seal set

Model:

- For manual valve - pressure tight housing
- Incl. position indicator

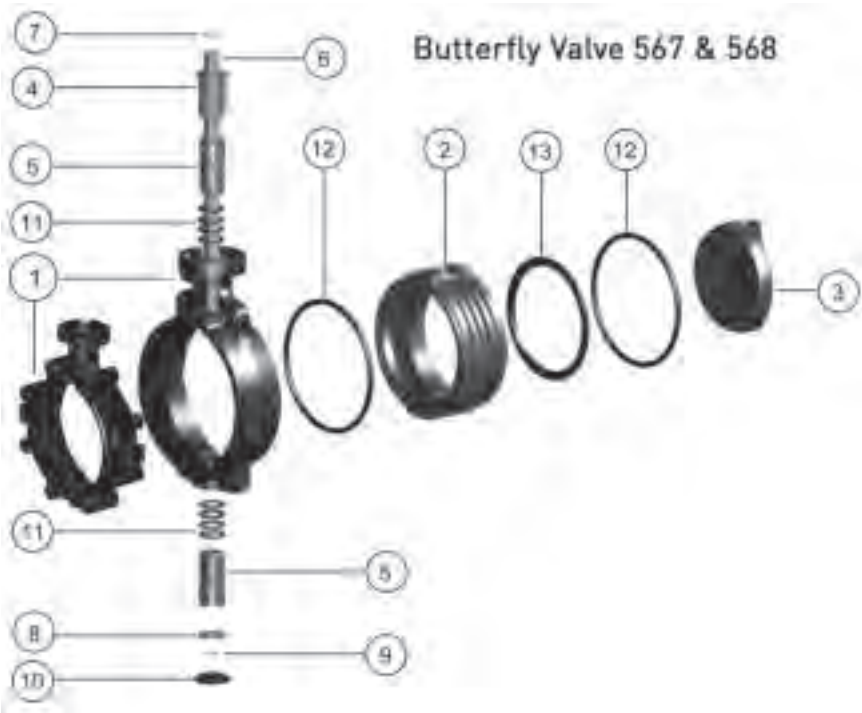
d (mm)	Size (inch)	DN (mm)	EPDM Code
20	½	15	198 000 892
25	¾	20	198 000 893
32	1	25	198 000 894
40	1 ¼	32	198 000 895
50	1 ½	40	198 000 896
63	2	50	198 000 897

Special wrench for DV

d (mm)	DN (mm)	Code
20	15	198 154 012
25	20	198 154 013
32	25	198 154 014
40	32	198 154 015
50	40	198 154 016
63	50	198 154 017

Spare parts butterfly valves

Spare parts butterfly valve type 567/578



Inner body

Model:

- Inner body consisting of: inner body (2) and profile seal (13)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FPM Code
63	2	50	161 486 861	161 486 873
75	2 ½	65	161 486 862	161 486 874
90	3	80	161 486 863	161 486 875
110	4	100	161 486 864	161 486 876
140	5	125	161 486 865	161 486 877
160	6	150	161 486 866	161 486 878
225	8	200	161 486 867	161 486 879
280	10	250	161 486 868	161 486 880
315	12	300	161 486 869	161 486 881



Disc (3)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
63	2	50	161 490 889
75	2 ½	65	161 490 890
90	3	80	161 490 891
110	4	100	161 490 892
140	5	125	161 490 893
160	6	150	161 490 894
225	8	200	161 490 895
280	10	250	161 490 896
315	12	300	161 490 897

Spare parts Process control valves

Pressure regulating valve type 582/586



Cartridge type 582

DN (mm)	PVC-U EPDM Code	PVC-U FPM Code
10-15	161 489 131	161 489 231
20-25	161 489 133	161 489 233
32-50	161 489 136	161 489 236



Cartridge type 586

DN (mm)	PVC-U EPDM Code	PVC-U FPM Code
10-15	161 489 161	161 489 261
20-25	161 489 163	161 489 263
32-50	161 489 166	161 489 266

Cover cap

DN (mm)	Type	Code
10-15	582/586	198 806 391
20-25	582/586	198 806 393
32-50	582/586	198 806 396

Manometer adapter

Model:

- For mediaseparation from pressure gauge to process medium
- Diaphragm PTFE/EPDM

DN (mm)	EPDM/FPM Code	FPM white (HP) Code
10-50	198 806 650	198 806 654

Manometer

Model:

- Display with double scale: 0-4 bar / 0-58 psi, size: ø 40mm
- Display with double scale: 0-10bar / 0-150psi, size: ø 40mm
- Connection G 1/4 center back mount

DN (mm)	Material	EPDM/FPM 0-10bar Code	FPM white (HP) 0-10bar Code	EPDM/FPM 0-4bar Code
10-50	Brass	198 806 651	198 806 655	198 806 963
10-50	Stainless Steel	198 806 652	198 806 656	198 806 962

Manometer plug

- For maintenance

DN (mm)	Code
10-50	198 806 653

Hook wrench

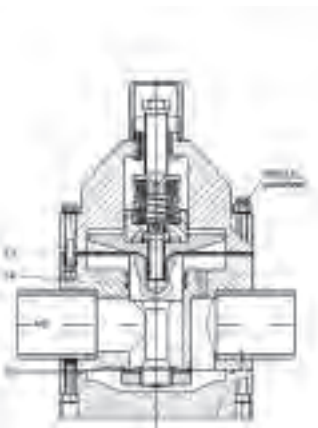
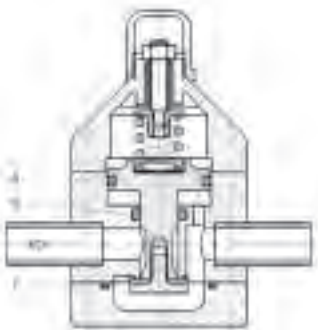
DN (mm)	Type	Code
10-15	582/586	198 806 451
20-25	582/586	198 806 452
32-50	582/586	198 806 453

Pressure reducing valve type V82

Model:

- Spare part kit contains: diaphragm and o-rings

Type	DN-DN (mm)	EPDM Code	PTFE Code
V82	65	700 254 404	700 254 308
V82	80	700 254 405	700 254 309
V82	100	700 254 406	700 254 310



Pressure relief valve type V85

Model:

- Spare part kit contains: diaphragm

Type	DN-DN (mm)	EPDM Code	PTFE Code
V85	65	700 254 336	700 254 342
V85	80	700 254 337	700 254 343
V85	100	700 254 338	700 254 344

Pressure retaining valve type V86

Model:

- Spare part kit contains: diaphragm

Type	DN-DN (mm)	EPDM Code	PTFE Code
V86	65	700 254 376	700 254 379
V86	80	700 254 377	700 254 380
V86	100	700 254 378	700 254 381
