Partnership. With Guarantee.

Flanged valve pneumatically actuated
Series SE23, SE24, SE25, SE33

Design type	2/2-way poppet valve, pneumatically actuated
Connection	Flanges DN15...DN80 according to DIN EN1092-1 PN40
Overall length	according to EN558-1R1
Materials	Housing Stainless steel 1.4408 Seat seal FKM, EPDM, NBR and PTFE
Application range	gaseous and liquid media that do not attack the materials used Control function Spring return closed (closing against media flow): Application for liquids to prevent pressure surges Control function Spring closing (closing with media flow): Application for gases and vapours Control function Spring opens (closing against media flow): Application for liquids, gases and vapours
Viscosity of the medium	max. 600mm²/s (600cSt)
Medium temperature	Piston actuator Metal cover: -30...+170°C Low-temperature version down to -100°C, High-temperature version up to 200°C and High-temperature version up to 220°C on request
Ambient temperature	-30...+60°C
Operating pressure	Vacuum up to 0,001 bar absolute see tables and Selection charts, Operating limit for gases of group 1: P[bar] x DN <1000
Tightness Package	TA air test according to DIN EN ISO15848-1 and VDI 2440
Control medium	Compressed air and neutral gases (Liquids on request)
Control pressure	see table
Approvals	ATEX II 2G Ex h IIC T6…T2 X Gb / II 2D Ex h IIIC 85°C…220°C X Db
Special versions	oil- and grease-free version, AS-i bus, Flanges according to ANSI 150 (DN15...DN50), higher operating pressures (reinforced version), dead space-free on request
Accessories	Limit switch, Pilot valve, Manual override actuation, Manual emergency override

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Type code

		SE	23	-	25	-	S	T	50	-	01
	Spring closes (closing with media flow)	25									
	Spring closes (closing against the media flow)	24									
	Spring opens (closing against media flow)	23									
Type	Spring closes (closing with media flow) with pressure-relieved poppet	33									
Connection	DN15				15						
	DN20				20						
	DN25				25						
	DN32				32						
	DN40				40						
	DN50				50						
	DN65				65						
	DN80				80						
Materials	Housing Stainless steel 1.4408						S				
Seat seal	EPDM - Medium temperature -30...+140°C							E			
	NBR - Medium temperature -30...+80°C							N			
	PTFE - Medium temperature -30...+200°C							T			
	FKM - Medium temperature -15...+200°C							V			
Actuator	Piston Ø50mm, double-acting								50		
	Piston Ø50mm, 1 Spring								51		
	Piston Ø50mm, 2 Springs								52		
	Piston Ø50mm, 3 Springs								53		
	Piston Ø80mm, double-acting								80		
	Piston Ø80mm, 1 Spring								81		
	Piston Ø80mm, 2 Springs								82		
	Piston Ø80mm, 3 Springs								83		
	Piston Ø125mm, double-acting								125		
	Piston Ø125mm, 1 Spring								1251		
	Piston Ø125mm, 2 Springs								1252		
	Piston Ø125mm, 3 Springs								1253		
	Diaphragm actuator 250cm², 4 Springs								2504		
	Diaphragm actuator 250cm², 6 Springs								2506		
	Diaphragm actuator 250cm², 8 Springs								2508		
	Diaphragm actuator 250cm², 10 Springs								25010		
	Diaphragm actuator 250cm², 12 Springs								25012		
Special version	described in the item text										01,02,03....

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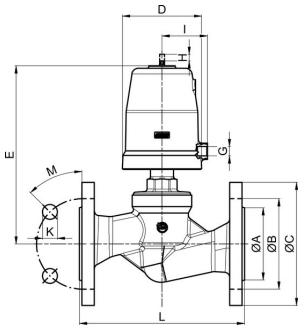
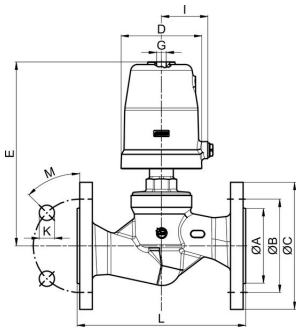
Technical Specifications and Dimensions

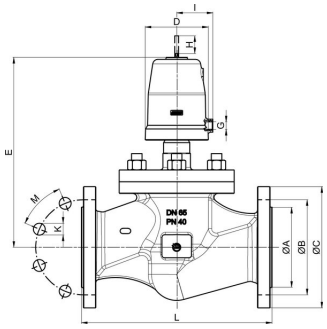


Spring closes, Type SE24, SE25, SE33

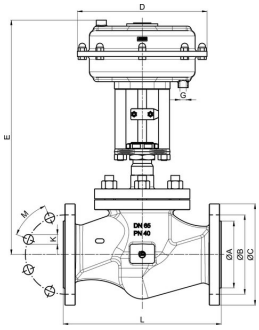


Spring opens, Type SE23

Nominal size DN [mm]	Actuator	ØA	ØB	ØC	D	E	G	H (Stroke [mm])	I	K	L	M	N (Number of holes)	Kvs values [m³/h]	Weight [kg]
15	50	45	65	95	62	147	1/8"	12	34,5	14	130	45°	4	3,1	2,5
20	50	58	75	105	62	152	1/8"	15,5	34,5	14	150	45°	4	6,5	3,3
25	50	68	85	115	62	169	1/8"	15,5	34,5	14	160	45°	4	12	3,9
25	80	68	85	115	96	208	1/4"	20	55	14	160	45°	4	12	5,5
32	50	78	100	140	62	173	1/8"	15,5	34,5	18	180	45°	4	17	5,5
32	80	78	100	140	96	212	1/4"	23	55	18	180	45°	4	17,5	7
32	125	78	100	140	238	236	1/4"	23	80	18	180	45°	4	17,5	9,2
40	50	88	110	150	62	179	1/8"	15,5	34,5	18	200	45°	4	25	6,6
40	80	88	110	150	96	218	1/4"	28,5	55	18	200	45°	4	25	8,1
40	125	88	110	150	238	242	1/4"	28,5	80	18	200	45°	4	25	10,3
50	80	102	125	165	96	241	1/4"	30	55	18	230	45°	4	40	10,1
50	125	102	125	165	238	266	1/4"	30	80	18	230	45°	4	40	12,3



Spring closes, Type SE24, SE25, SE33



Actuator 250

Nominal size DN [mm]	Actuator	ØA	ØB	ØC	D	E	G	H (Stroke [mm])	I	K	L	M	N (Number of holes)	Kvs values [m³/h]	Weight [kg]
65	80	122	145	185	96	295	1/4"	27	55	18	290	45°	8	59	23
65	125	122	145	185	146	320	1/4"	27	80	18	290	45°	8	59	25
65	250	122	145	185	238	430	1/4"	25	-	18	290	45°	8	59	30
80	80	138	160	200	96	295	1/4"	27	55	18	310	45°	8	84	30
80	125	138	160	200	146	320	1/4"	27	80	18	310	45°	8	84	32
80	250	138	160	200	238	430	1/4"	25	-	18	310	45°	8	84	36

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Technical specifications Spring closing (closing against media flow), Type SE24

Nominal size DN [mm]	max. Operating pressure [bar]	Control pressure [bar]	Actuator [mm]	Springs
15	15	3,5...10	50	1
15	27	4,5...10	50	2
20	5,1	3,5...10	50	1
20	10	4,5...10	50	2
20	16	5,7...10	50	3
25	2,3	3,5...10	50	1
25	5,6	4,5...10	50	2
25	8,9	5,7...10	50	3
25	20	3,5...10	50	1
32	3,1	4,5...10	80	2
32	5,1	5,7...10	50	3
32	11	3,5...10	50	1
32	16	4,4...10	80	2
32	21	5,6...10	80	3
32	10	1,3...10	125	1
32	22	2,2...10	125	2
40	1,9	4,5...10	50	2
40	3,4	5,7...10	50	3
40	6,8	3,5...10	80	1
40	9,6	4,4...10	80	2
40	12	5,6...10	80	3
40	6,3	1,3...10	125	1
40	14	2,2...10	125	2
40	20	3,1...10	125	3
50	4	3,5...10	80	1
50	5,9	4,4...10	80	2
50	7,7	5,6...10	80	3
50	8,7	2,2...10	125	2
50	12	3,1...10	125	3
65	3	4,6...10	80	2
65	4,1	5,8...10	80	3
65	4,8	2,3...10	125	2
65	7	3,2...10	125	3
65	11	2,7...10	250	8
65	15	3,7...10	250	12
80	2	4,6...10	80	2
80	2,7	5,8...10	80	3
80	3,2	2,3...10	125	2
80	4,7	3,2...10	125	3
80	7,5	2,7...10	250	8
80	10,5	3,7...10	250	12

grey highlighted: standard

Technical specifications with pressure-relieved poppet cone, Type SE33

Nominal size DN [mm]	max. Operating pressure [bar]	Control pressure [bar]	Actuator [mm]	Springs
65	9,4	3,7...10	80	1
65	14	4,6...10	80	2
65	19	5,8...10	80	3
65	9	1,3...10	125	1
65	22,5	2,3...10	125	2
65	25	3,2...10	125	3
65	25	1,5...10	250	4
80	19,5	3,7...10	80	1
80	20	4,6...10	80	2
80	18,5	1,3...10	125	1
80	20	2,3...10	125	2
80	20	1,5...10	250	4

grey highlighted: standard

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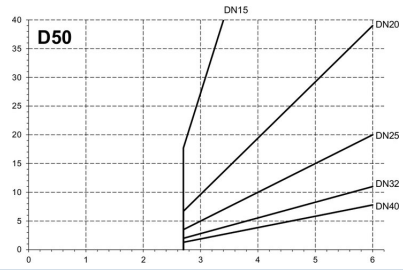
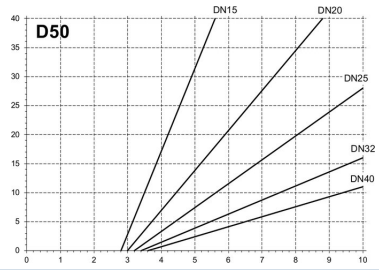
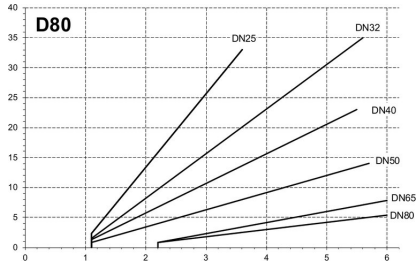
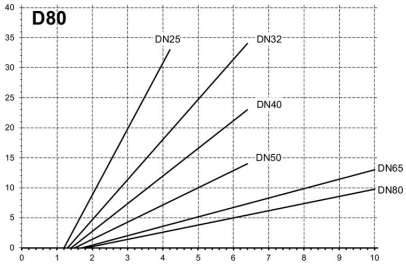
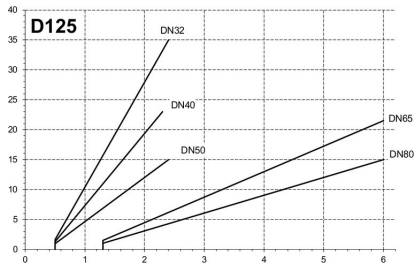
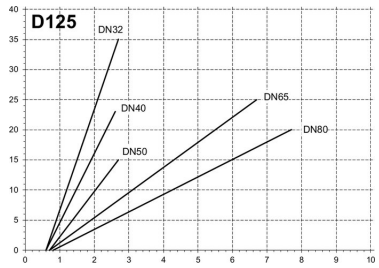
Selection charts - Dependence of operating pressure/control pressure

Spring closes (closing with media flow) NC, Type SE25	Spring opens (closing against the media flow) NO, Type SE23
Actuator diameter 50 mm	Actuator diameter 50 mm
	
horizontal Axis: pilot pressure in bar vertical axis: operating pressure in bar	horizontal Axis: pilot pressure in bar vertical axis: operating pressure in bar max. control pressure 1bar above the required pilot pressure
Actuator diameter 80 mm	Actuator diameter 80 mm
	
horizontal Axis: pilot pressure in bar vertical axis: operating pressure in bar	horizontal Axis: pilot pressure in bar vertical axis: operating pressure in bar max. control pressure 0,8bar above the required pilot pressure
Actuator diameter 125 mm	Actuator diameter 125 mm
	
horizontal Axis: pilot pressure in bar vertical axis: operating pressure in bar	horizontal Axis: pilot pressure in bar vertical axis: operating pressure in bar max. control pressure 0,5bar above the required pilot pressure

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