Partnership. With Guarantee.

3/2-Way valve pneumatically actuated
Series SE10, SE11, SE12, SE13, SE20

Design type	3/2-way poppet valve, pneumatically actuated
Connection	RP1/2"...RP11/2" according to ISO7/1 on request: NPT thread
Materials	Body Red brass Standard seat seal PTFE
Control medium	Compressed air and neutral gases (Liquids on request)
Application range	gaseous and liquid media that do not attack the materials used
Viscosity of the medium	max. 600 mm²/s (600cSt)
Medium temperature	Metal cap: -30°C...+170°C High-temperature version up to 200°C on request
Ambient temperature	-30°C...+60°C
Control pressure	see table
Operating pressure	see table
Accessories	Limit switch, Pilot valve, Manual override actuation, Manual emergency override, oil- and grease-free version

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Order code

		SE	10	-	N	112	-	R	T	81	-	01
	Spring closes		10									
	Spring opens		11									
	Dividing function		12									
	Mixing function		13									
Type	Shut-off function		20									
Connection type	none specification, if female thread ISO7/1											
	NPT thread				N							
Connection	DN15-1/2"					12						
	DN20-3/4"					34						
	DN25-1"					10						
	DN32-11/4"					114						
	DN40-11/2"					112						
Materials	Red brass (DN15 - DN50)							R				
Seat seal	PTFE								T			
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		
Special version	described in the item text											01,02,03....

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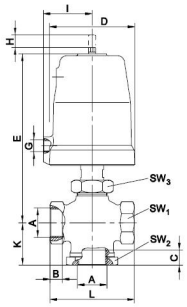
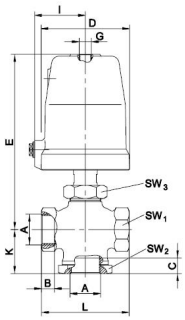
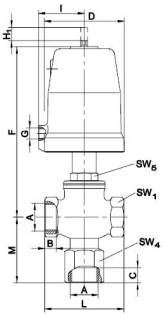
Technical Specifications and Dimensions



Diverting, mixing and shut-off function, Type SE12, SE13, SE20



Actuation: Spring opens, Type SE11

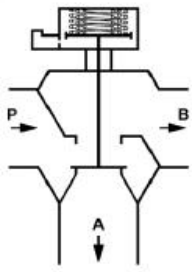


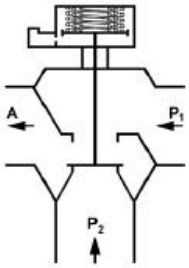
Actuation: Spring return closed, Type SE10

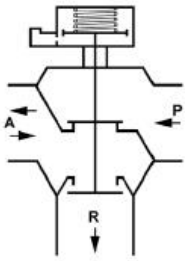
Connection A	Nominal size DN [mm]	Actuator	B	C Rp	C NPT	D	E	F	G	H	H1	K	L	M	SW1	SW2	SW3	SW4	SW5	Kvs values [m³/h]	Weight [kg]
RP1/2"	15	50	13	13,2	15	62	152	147	G1/8"	9	5	39	80	68	33	41	41	36	30	5,3	1,5
RP1/2"	15	80	13	13,2	15	98	19	186	G1/4"	9	5	39	80	68	33	41	41	36	30	5,3	3,1
RP3/4"	20	50	13	16,3	15	62	1158	147	G1/8"	9	5	42	80	68	33	41	41	36	30	7,3	1,5
RP3/4"	20	80	13	16,3	15	98	191	186	G1/4"	9	5	42	80	68	33	41	41	36	30	7,3	3,1
RP1"	25	50	14	16,8	18	62	158	165	G1/8"	11	8	47	95	73	41	55	41	41	30	12,3	1,9
RP1"	25	80	14	16,8	8	98	191	204	G1/4"	11	8	47	95	73	41	55	41	41	30	12,3	3,5
RP1"	25	125	14	16,8	18	146	215	228	G1/4"	11	8	47	95	73	41	55	41	41	3	12,3	5,6
RP11/4"	32	80	18	19	19	98	208	211	G1/4"	18,5	9	61	132	93	58	75	41	55	032	20	4,8
RP11/4"	32	125	18	19	19	146	232	235	G1/4"	18,5	9	61	132	93	58	75	41	55	32	20	6,7
RP11/2"	40	80	18	19	19	98	208	211	G1/4"	18,5	9	61	132	93	58	75	41	55	32	23	4,8
RP11/2"	40	125	18	19	19	146	232	235	G1/4"	18,5	9	61	132	93	58	75	41	55	32	23	6,7

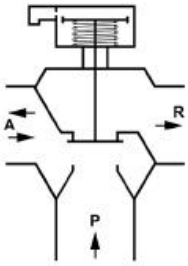
Versions

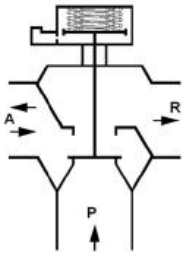
Dividing function	Mixing function	Actuation: Spring return closed	Actuation: Spring opens	Shut-off function
SE12	SE13	SE10	SE11	SE20











Maximum permissible pilot pressures

Nominal size DN	Actuator diameter [mm]	Compression springs	max. Control pressure			
			Dividing function, SE12	Mixing function, SE13	Spring closes, SE10	Spring opens, SE11
15/20	50	1	9	9,8	9	9
15/20	80	1	7	7,2	-	5
25	50	1	9	9,8	9	9
25	80	1	7	7,2	5	6,4
25	80	2	-	7,9	-	-
25	125	1	2,8	2,8	-	2,6
25	125	2	-	3,6	-	-
32/40	80	1	7	7,7	5	-
32/40	125	1	3	3	2	3,8
32/40	125	2	-	3,9	-	-

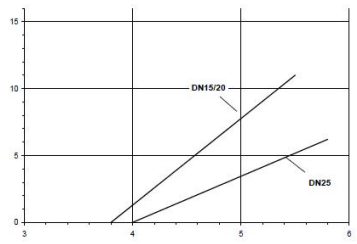
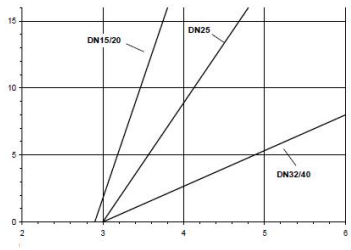
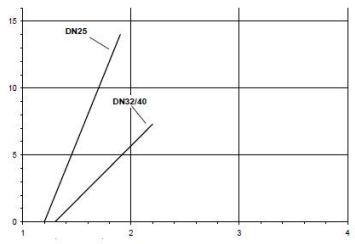
Maximum permissible differential and control pressure for shut-off function, Type SE20

Nominal size DN	max. Differential pressure [bar]	Control pressure [bar]	Actuator diameter [mm]	Springs*
15/20	4,5	3,8 - 9,7	50	1
15/20	9	4,8 - 10	50	2
25	3,5	4,9 - 10	50	2
15/20	16	2,9 - 7,2	80	1
25	10	3,2 - 7,4	80	1
25	16	4,4 - 8,7	80	3
32/40	7	4,4 - 8,5	80	2
32/40	9	5,4 - 9,5	80	3
32/40	4	1,5 - 3,0	125	1
32/40	10	2,2 - 3,9	125	2
32/40	14	3,0 - 4,6	125	3

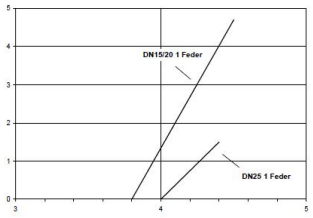
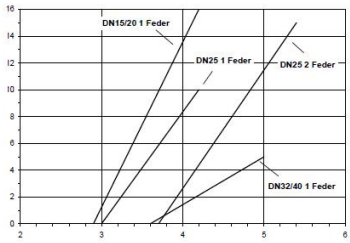
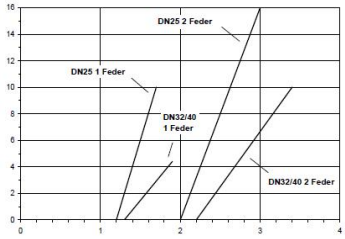
*Standard spring configuration 1 compression spring

Selection charts - Dependence of operating pressure/control pressure

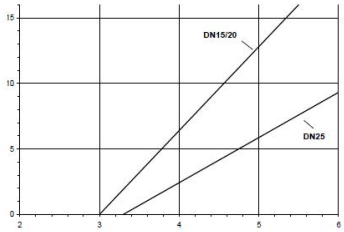
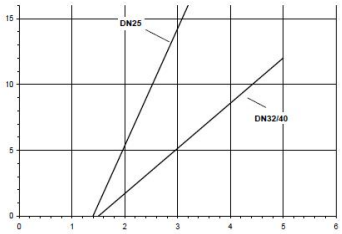
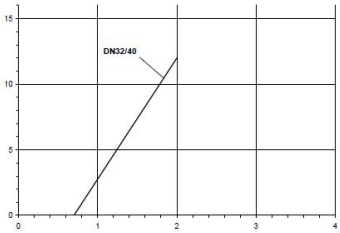
Dividing function, Type SE12

Actuator diameter 50 mm	Actuator diameter 80 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	horizontal Axis: pilot pressure in bar vertical axis: operating pressure in bar

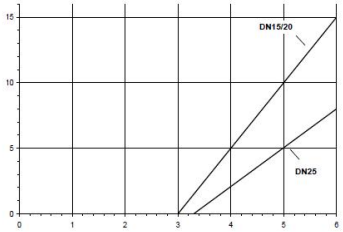
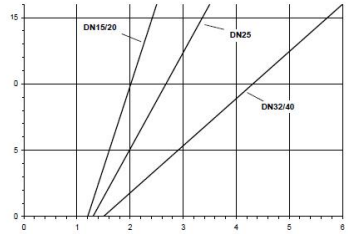
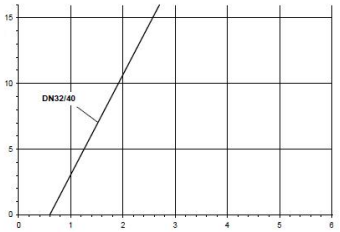
Mixing function, Type SE13

Actuator diameter 50 mm	Actuator diameter 80 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	horizontal Axis: pilot pressure in bar vertical axis: operating pressure in bar

Spring closes, Type SE10

Actuator diameter 50 mm	Actuator diameter 80 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	horizontal Axis: pilot pressure in bar vertical axis: operating pressure in bar

Spring opens, Type SE11

Actuator diameter 50 mm	Actuator diameter 80 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	horizontal Axis: pilot pressure in bar vertical axis: operating pressure in bar

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