

Angle seat valve pneumatically actuated Series SE18, SE19



Design type	2/2-way poppet valve, pneumatically actuated
Connection	G1/4"...G2" according to ISO228/1 on request: NPT thread, Weld ends, Tri-Clamp connection
Materials	Housing red brass G1/2"...G2" Body stainless steel 1.4408 G1/4"...G2" Cover Plastic Standard seat seal PTFE
Control medium	Compressed air and neutral gases, Water, Oil
Application range	gaseous and liquid media that do not attack the materials used Control function Spring closing (closing against media flow): Application for liquids to prevent pressure surges Control function Spring closing (closing with media flow): Application for gases and vapors
Viscosity of the medium	max. 600mm ² /s (600cSt)
Medium temperature	-30...+135°C
Ambient temperature	-15...+60°C
Control pressure	max. 10bar, see table
Operating pressure	Vacuum up to 0,001 bar absolute Housing red brass max. 16bar Body stainless steel 1.4408 max. 40bar
Accessories	Limit switch, Pilot valve, Manual override actuation, Manual emergency override, oil- and grease-free version, AS-i bus

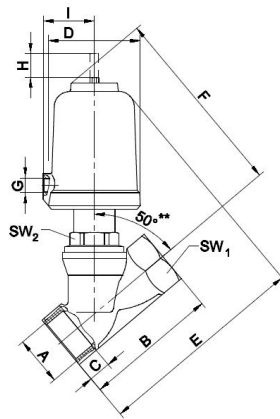


Order code

SE 18 - N 112 - R T 81 - 01									
Type	Spring closing (closing with media flow)	18							
	Spring closing (closing against media flow)	19							
Connection type	no specification, if female thread ISO228/1								
	Weld ends to DIN	D							
	Weld ends to ISO	I							
	NPT thread	N							
	Tri-Clamp in inches	T							
Connection	DN8-1/4"	14							
	DN10-3/8"	38							
	DN15-1/2"	12							
	DN20-3/4"	34							
	DN25-1"	10							
	DN32-1 1/4"	114							
	DN40-1 1/2"	112							
	DN50-2"	20							
Materials	Red brass (DN15...DN50)	R							
	Stainless steel 1.4408 (DN8...DN80)	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							
Special version	described in the item text							01,02,03....	



Technical specifications and Dimensions



Red brass and stainless steel

Connection A	Nominal size DN [mm]	Actuator	B	C	D	E	F	G	H (Stroke [mm])	I	SW1	SW2	Kvs values [m³/h]	Weight [kg]
G1/4"	8	50	60	12	62	130	123	G1/8"	8,5	34,5	20	30	0,95	1
G3/8"	10	50	60	12	62	130	123	G1/8"	9	34,5	23	30	1,6	1,05
G1/2"	15	50	65	15	62	135	120	G1/8"	7	34,5	25	30	3,5	1,1
G3/4"	20	50	75	16,3	62	135	125	G1/8"	12	34,5	31	30	8	1,2
G1"	25	50	90	19,1	62	145	130	G1/8"	16	34,5	39	30	15	1,4
G1"	25	80	90	19,1	96	185	170	G1/4"	16	55	39	30	16	3,0
G1 1/4"	32	50	110	21,4	62	160	145	G1/8"	16	34,5	48	30	21	1,8
G1 1/4"	32	80	110	21,4	96	200	190	G1/4"	20	55	48	30	24	3,3
G1 1/2"	40	50	120	21,4	62	165	150	G1/8"	16	34,5	55	30	30	2,1
G1 1/2"	40	80	120	21,4	96	205	195	G1/4"	23	55	55	30	35	3,6
G2"	50	50	150	25,7	62	185	160	G1/8"	16	34,5	68	32	40	2,7
G2"	50	80	150	25,7	96	225	200	G1/4"	29	55	68	32	55	4,2

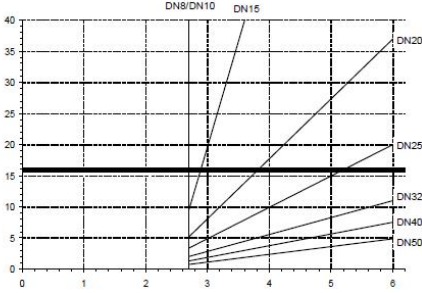
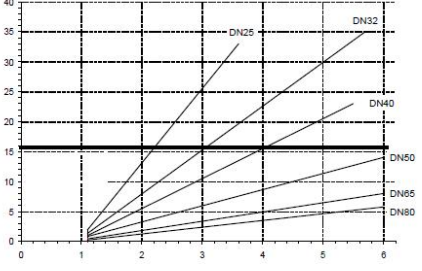
Technical specifications Spring closing (closing against media flow), Type SE19

Nominal size DN[mm]	max. operating pressure [bar]		Control pressure	Actuator	Springs
	Stainless steel	Red brass			
DN8	40	-	3,5-10	50	1
DN10	40	-	3,5-10	50	1
DN15	22	16	3,5-10	50	1
DN20	7	7	3,5-10	50	1
DN20	13	13	4,5-10	50	2
DN20	19	16	5,7-10	50	3
DN25	2,5	2,5	3,5-10	50	1
DN25	5,8	5,8	4,5-10	50	2
DN25	9	9	5,7-10	50	3
DN25	22	16	3,5-10	80	1
DN32	1,1	1,1	3,5-10	50	1
DN32	3,1	3,1	4,5-10	50	2
DN32	5,2	5,2	5,7-10	50	3
DN32	12	12	3,5-10	80	1
DN32	17	16	4,4-10	80	2
DN32	22	16	5,6-10	80	3
DN40	1,9	1,9	4,5-10	50	2
DN40	3,3	3,3	5,7-10	50	3
DN40	7	7	3,5-10	80	1
DN40	10	10	4,4-10	80	2
DN40	13	13	5,6-10	80	3
DN50	4	4	3,5-10	80	1
DN50	6	6	4,4-10	80	2
DN50	7,5	7,5	5,6-10	80	3

grey shaded: standard



Selection charts - Dependence of operating pressure/control pressure

Spring closing (closing with media flow) NC, Type SE18	
Actuator diameter 50 mm	
	
horizontal axis: control pressure in bar vertical axis: operating pressure in bar thick line: upper limit for red brass	
Actuator diameter 80 mm	
	
horizontal axis: control pressure in bar vertical axis: operating pressure in bar thick line: upper limit for red brass	

Illustrations non-binding
Design, dimensional and material changes reserved

Armatures / Valves, butterfly valves and gate valves - automatically operated / Seat valves - pneumatically operated / Pneumatically operated seat valve Series SE18RT