

angle seat valve pneumatically operated

series SE01, SE02, SE03

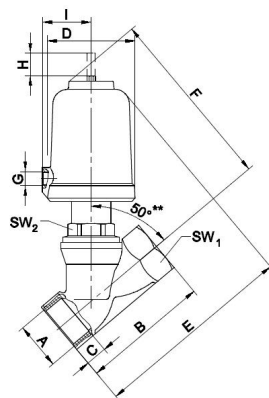


design	2/2-way seat valve, pneumatically operated
connection	G1/4"...G2" according to ISO228/1, RP21/2...RP3" according to ISO7/1 on request: NPT-thread, butt weld ends, Tri-Clamp connection
materials	body made of bronze G1/2" ...G2" body brass RP21/2"...RP3" body stainless steel AISI 316 G1/4" ...G3" standard seat seal PTFE
control medium	compressed air and neutral gaseous (liquids on request)
application	gaseous and liquid fluids which do not affect the used materials control function spring closed (closing against flow): for liquids to avoid water hammer effect control function spring closed (closing with flow): application for gaseous media and steam control function spring opened (closing against flow): application for liquids, gaseous media and steam
viscosity of the media	max. 600mm ² /s (600cSt)
medium temperature	piston actuator metall cover: -30°C...+170°C (steam max. 140°C) piston actuator plastic cover: -30°C...+135°C high temperature version up to 200°C on request low temperature equipment down to -50°C on request
ambient temperature	-30°C...+60°C
control pressure	see table
operating pressure	vacuum to 0,001 bar absolute body made of bronze and body brass max. 16bar body stainless steel AISI 316 max. 40bar
accessories	limit switch, pilot valve, additional manual operation, manual emergency override, free of oil and grease, ASI fieldbus

order code

		SE 01 - N 112 - R T 81 - 01									
type	spring closed (closing with flow)	01									
	spring closed (closing against flow)	02									
	spring opened (closing against flow)	03									
connection type	keep empty if female thread ISO228/1 respectively ISO7/1										
	weld ends according to DIN	D									
	weld ends according to ISO	I									
	NPT-thread	N									
	Tri-clamp according to inch	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									
	DN65-2 1/2"	212									
		DN80-3"	30								
materials	brass (only DN65 + 80)								B		
	bronze (DN15 - DN50)								R		
	stainless steel AISI 316 (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		
	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 article description									01,02,03....	

technical specifications and dimensions



** angle = 45° for DN65, DN80 brass and DN80 stainless steel

bronze and stainless steel

connection A	nominal diameter DN [mm]	actuator	B	C	D	E	F	G	H	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 1/4"	32	125	110	21,4	146	230	215	G1/4"	20	80	48	30	24	5,5
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
G1 1/2"	40	125	120	21,4	146	235	220	G1/4"	23	80	55	30	35	5,8
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
G2"	50	125	150	25,7	146	250	225	G1/4"	29	80	68	32	55	6,4
RP2 1/2"	65	80	180	30,2	96	260	220	G1/4"	29	55	85	36	80	6,2
RP2 1/2"	65	125	180	30,2	146	285	250	G1/4"	29	80	85	36	80	8,4
RP3"	80	80	214	33,3	96	290	225	G1/4"	29	55	100	41	112	8,3
RP3"	80	125	214	33,3	146	315	250	G1/4"	29	80	100	41	112	10,5

brass

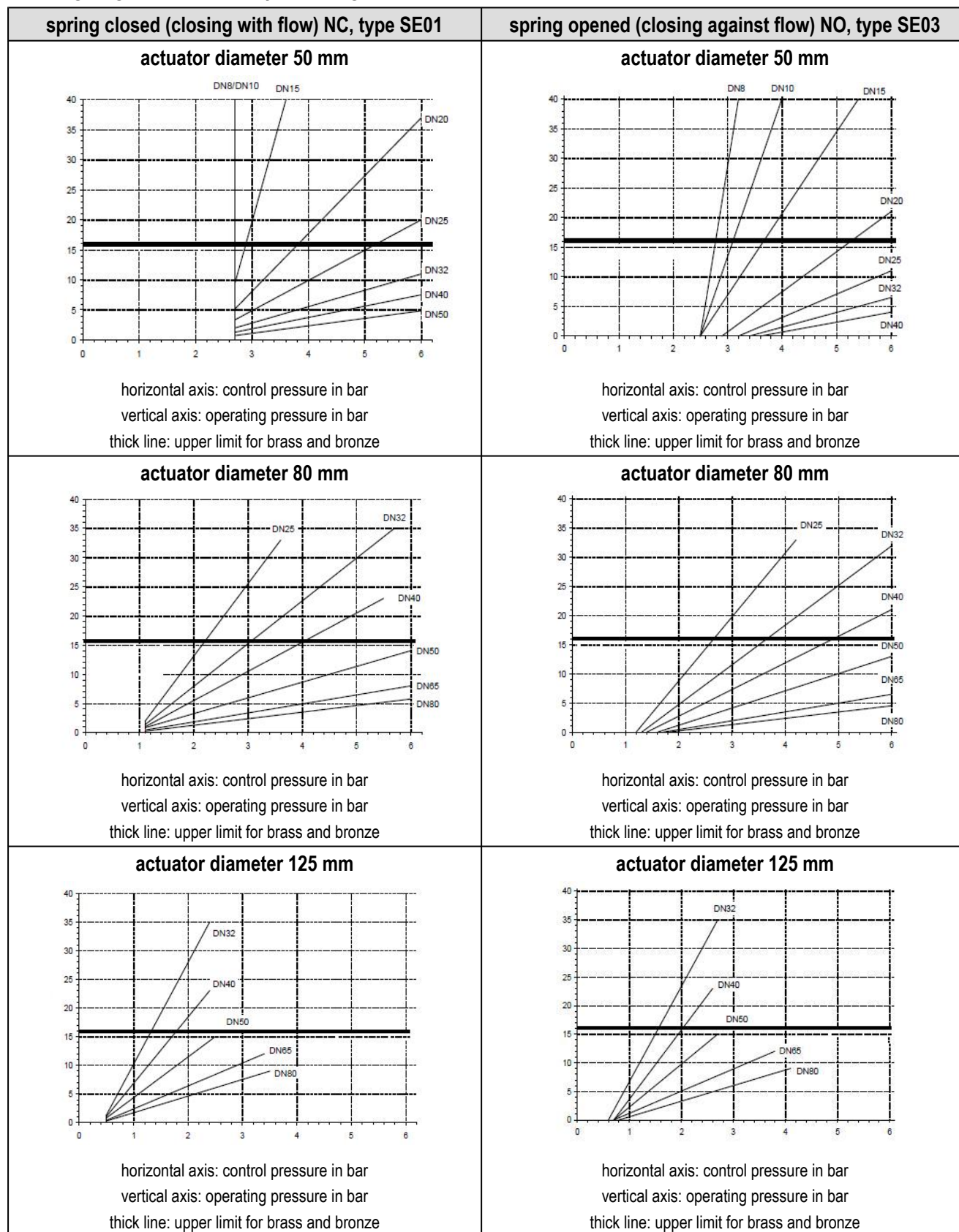
connection A	nominal diameter DN[mm]	actuator	B	C	D	E	F	G	H	I	SW1	SW2	kvs-values [m³/h]	weight [kg]
RP2 1/2"	65	80	180	30,2	96	260	220	G1/4"	29	55	85	36	93	6,2
RP2 1/2"	65	125	180	30,2	146	285	250	G1/4"	29	80	85	36	93	8,4
RP3"	80	80	210	33,3	96	280	225	G1/4"	29	55	100	41	115	8,3
RP3"	80	125	210	33,3	146	305	250	G1/4"	29	80	100	41	115	10,5

technical specifications spring closed (closing against flow), type SE02

nominal diameter DN[mm]	max. operating pressure [bar]		control pressure	actuator	springs
	stainless steel	bronze/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
DN32	11	11	1,3-10	125	1
DN32	23	16	2,2-10	125	2
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
DN40	7	7	1,3-10	125	1
DN40	15	15	2,2-10	125	2
DN40	21	16	3,1-10	125	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
DN50	8,5	8,5	2,2-10	125	2
DN50	13	13	3,1-10	125	3
DN65	4	3,8	5,6-10	80	3
DN65	5	4,5	2,2-10	125	2
DN65	7	6,4	3,1-10	125	3
DN80	-	4,5	3,1-10	125	3

gray background: standard

selecting diagram - dependency operating pressure/control pressure



illustrations are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice