

3/2-way valve pneumatically operated series SE10, SE11, SE12, SE13, SE20

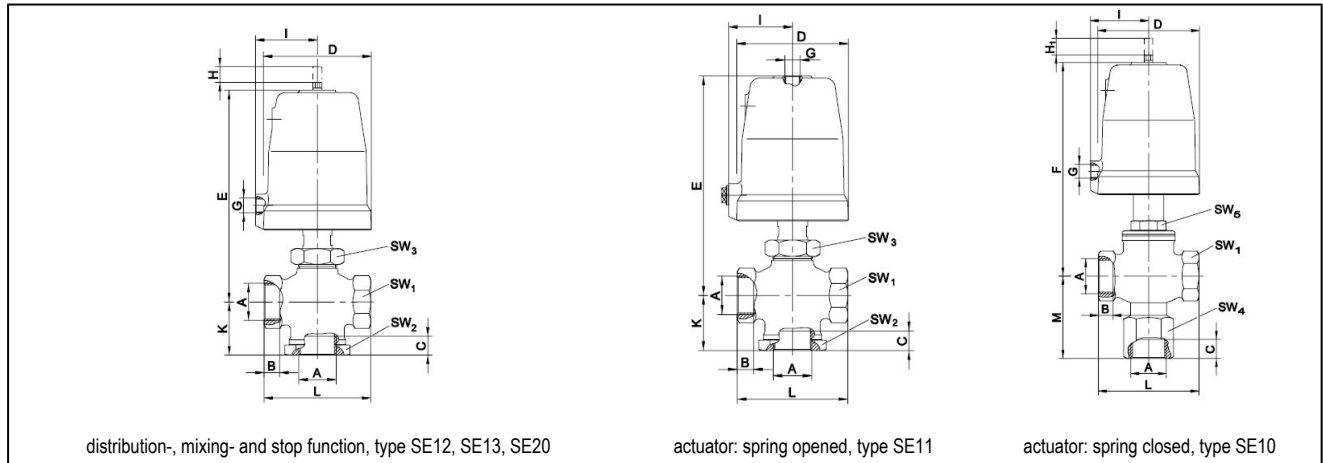


design	3/2-way seat valve, pneumatically operated
connection	RP1/2"...RP1 1/2" according to ISO7/1 on request: NPT-thread
materials	body made of bronze standard seat seal PTFE
control medium	compressed air and neutral gaseous (liquids on request)
application	gaseous and liquid fluids which do not affect the used materials
viscosity of the media	max. 600 mm ² /s (600cSt)
medium temperature	metall cover: -30°C...+170°C high temperature design 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, additional manual operation, manual emergency override, free of oil and grease

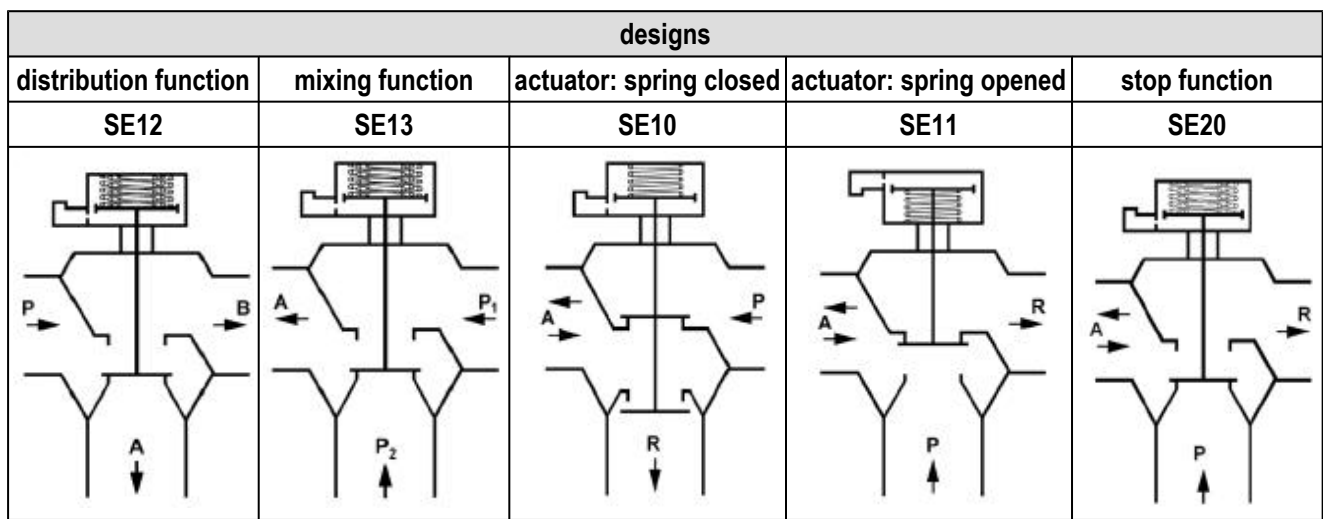
order code

		SE 10 - N 112 - R T 81 - 01										
type	spring closed	10										
	spring opened	11										
	distribution function	12										
	mixing function	13										
	stop function	20										
connection type	keep empty if female thread ISO7/1											
	NPT-thread		N									
connection	DN15-1/2"	12										
	DN20-3/4"	34										
	DN25-1"	10										
	DN32-1 1/4"	114										
	DN40-1 1/2"	112										
materials	bronze (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 article description		01,02,03....									

technical specifications and dimensions



connection A	nominal diameter 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
RP1 1/4"	32	80	18	19	19	98	208	211	G1/4"	18,5	9	61	132	93	58	75	41	55	032	20	4,8
RP1 1/4"	32	125	18	19	19	146	232	235	G1/4"	18,5	9	61	132	93	58	75	41	55	32	20	6,7
RP1 1/2"	40	80	18	19	19	98	208	211	G1/4"	18,5	9	61	132	93	58	75	41	55	32	23	4,8
RP1 1/2"	40	125	18	19	19	146	232	235	G1/4"	18,5	9	61	132	93	58	75	41	55	32	23	6,7



max. control pressure

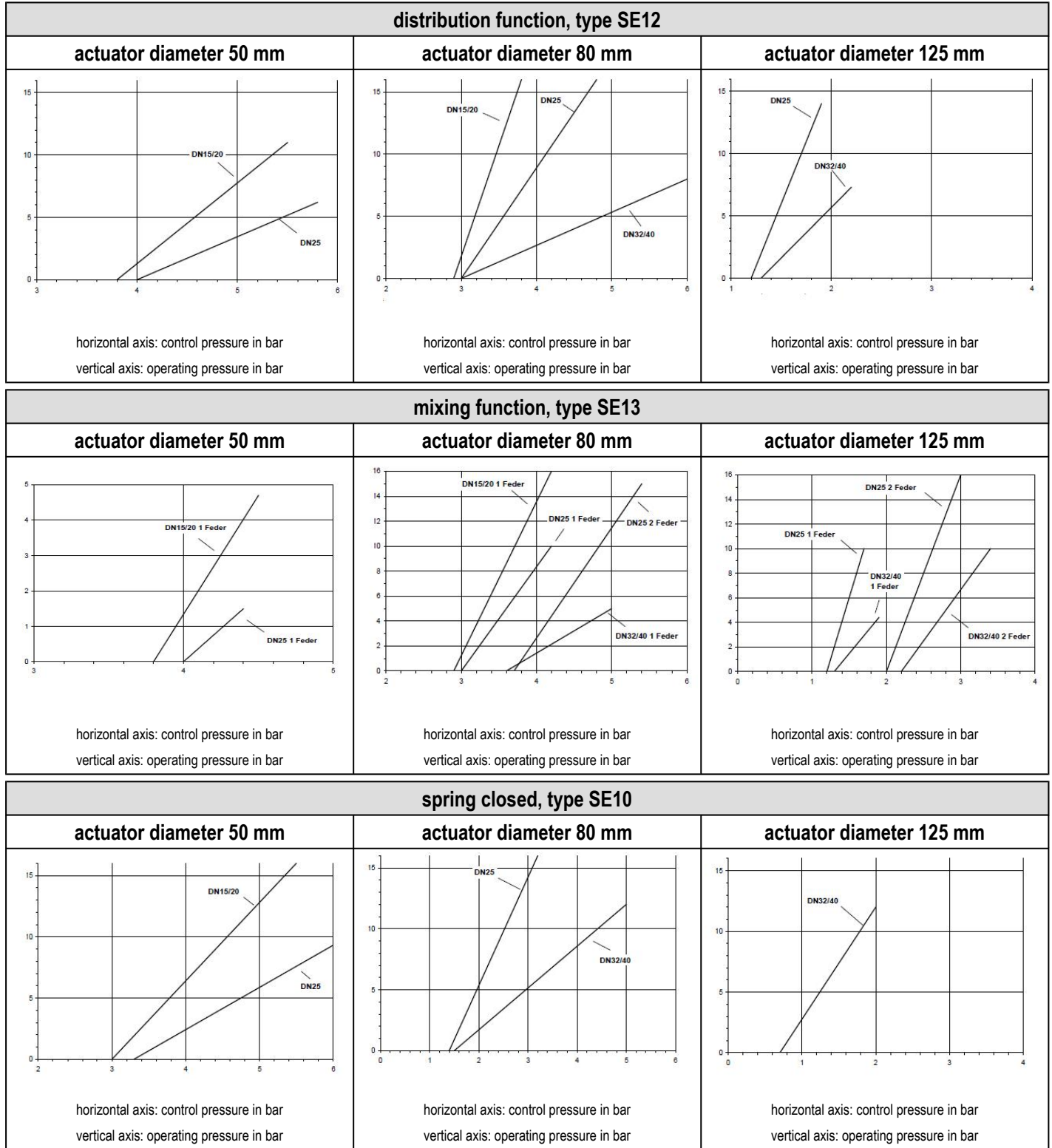
nominal diameter DN	actuator diameter [mm]	compression springs	max. control pressure			
			distribution function, SE12	mixing function, SE13	spring closed, SE10	spring opened, SE11
15/20	50	1	9	9,8	9	9
15/20	80	1	7	7,2	-	5
25	50	1	9	9,8	9	9
25	80	1	7	7,2	5	6,4
25	80	2	-	7,9	-	-
25	125	1	2,8	2,8	-	2,6
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	-	-

max. differential- and control pressure for stop function, type SE20

nominal diameter 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

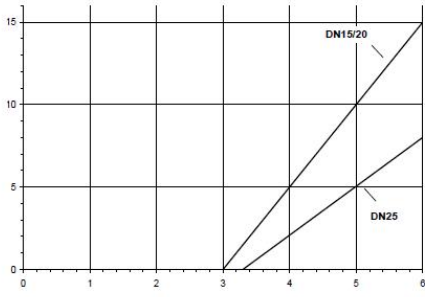
*standard spring equipment 1 pressure spring

selecting diagram - dependency operating pressure/control pressure



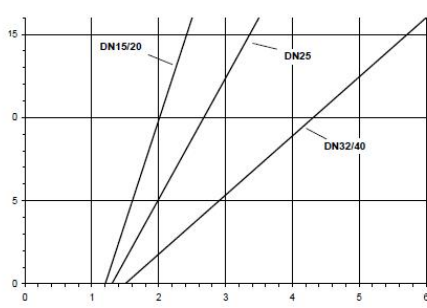
spring opened, type SE11

actuator diameter 50 mm



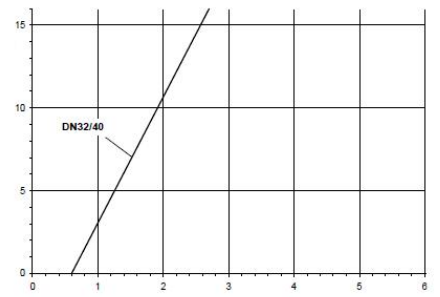
horizontal axis: control pressure in bar
vertical axis: operating pressure in bar

actuator diameter 80 mm



horizontal axis: control pressure in bar
vertical axis: operating pressure in bar

actuator diameter 125 mm



horizontal axis: control pressure in bar
vertical axis: operating pressure in bar

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