

Segmented disc valves 5020

with pneumatic actuator

DN 25 up to DN 300



Pneumatic control valve for the control of liquids and steam.

- suitable for contaminated fluids
- robust design
- tight in both directions
- controllable against the flow direction
- Space saving wafer type construction
- Quiet operation
- High Kvs-values



Technical data

Body design	flangeless, wafer-type construction for flanges acc. DIN EN 1092-1, form B	
Nominal size	DN 25 to DN 200	
Nominal pressure	DN 25 to DN 150	PN 25 acc. DIN 2401 (also for flanges PN 10 to PN 25)
	DN 200	PN 25 acc. DIN 2401
	DN 250 to DN 300	PN 16 acc. DIN 2401
Fluid temperature	-60°C up to 220°C	
Ambient temperature*	digital positioner: -10°C up to +75°C	analog positioner: -15°C up to +60°C
Rangeability	60:1	
Characteristic	modified linear	
Leakage % of Kvs	<0,001	

Materials

body	Stainless steel 1.4571
rack	Stainless steel 1.4112, treated
pressure spring	Stainless steel 1.4310
Fixed valve plate	Stainless steel 1.4112, treated
Moving valve disc	Stainless steel 1.4112, treated
slide ring	Stainless steel 1.4112, treated alternatively bronze
spring support	Stainless steel 1.4571
wear ring	Stainless steel 1.4571
body positioner	Aluminium anodized, synthetic

Positioners

For technical information of our positioners please refer to the corresponding data sheets.

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Admissible Differential Pressure (For temperatures of up to 120°C)

For temperatures of 120°C and above: obey application limits !

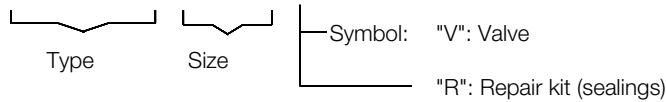
effective area of the actuator (cm ²)	250 cm ²	500 cm ²	1000 cm ²	1500 cm ²	3000 cm ²
pilot pressure (bar)	5	5	5	5	5
springs	10	20	10	10	20
	max. differential pressure in flow direction (against flow direction)				
	[bar]				
25	25 (25)	25 (25)	-	-	-
32	25 (21)	25 (25)	-	-	-
40	25 (13)	25 (25)	-	-	-
50	25 (10)	25 (22)	25 (25)	-	-
65	25 (8)	25 (17)	25 (25)	-	-
80	20,8 (6)	25 (14)	25 (25)	-	-
100	10,4 (3,5)	25 (8)	25 (24)	-	-
125	5 (2)	12 (4,3)	25 (21)	-	-
150	-	-	25 (13)	25 (24)	25 (25)
200	-	-	25 (5,3)	25 (12)	24 (24)
250	-	-	-	16 (6)	16 (13)
300	-	-	-	16 (4,6)	16 (10)

pressure values of actuators that aren't listed on demand

Ordering Number System

5 0 2 0 / V G M Z S

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



1 - 5 : Please quote all 5 sections.
6 - 12: Quote only if required.

1. Design	2. Body material	3. Safety position	4. Actuator	5. Special version	7. Springs	8. Stem sealing	9. Interior sealing
1 SPV1-waver type construction PN10-PN25, (for flanges acc. DIN EN 1092-1, Form B)	1 Stainless steel 1.4571 respectively 1.4112	0 Spring closes 1 Spring opens	2 diaphragm actuator 250cm ² 3 diaphragm actuator 500cm ² 1 diaphragm actuator 1000cm ² 5 diaphragm actuator 1500cm ² 7 diaphragm actuator 3000cm ²	M state, if further sections are quoted K encapsulated version	- Standard	- Standard (gland packing)	- Standard
10. Moving valve disc	11. Fixed valve plate	12. Kvs-Value / characteristics	13. Accessories	14. Positioner	15. Positioner settings	16. Signal equipment	16. Accessories
- Standard, stainless steel 1.4112, treated	- Standard, stainless steel 1.4112, treated	- linear 100%	Z Accessories (Pos. 14 ff.)	- without P Siemens PS2	- without	- without	- without

ordering example: 5020/050V1103M

SP-control valve type 5020 with pneumatic actuator DN 50, PN 10 - PN 40,
body material carbon steel, spring closes

