

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	
Application according to DGRL 2014/68/EU	DN25 to DN150	up to Category I
	DN200 to DN300	up to Category II

* Please consider the limitation of use of the positioner!

Materials

Body	Stainless steel 1.4301, 1.4308
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 1.4301, 1.4408
Wear ring	Stainless steel 1.4301, 1.4408
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

