

Pneumatically Operated Valve

Type 188 DN 12 - 15 (3/8" - 1/2")

Type 188 is a compact designed valve ideal for using where space is at a premium.

The smooth contour finish of the plastic cover eliminates accumulation of dirt and is corrosion resistant.

The actuator is designed in plastic and is a highly efficient piston design.

Features

- Process media can be neutral or aggressive liquid, and gaseous, dependent upon material selection of body and diaphragm
- Flow can be in either direction
- Insensitive to dirty or contaminated media
- Excellent flow characteristics
- Bubble tight sealing
- Installation can be in any position
- Eliminates water hammer
- Complete with position indicator
- Compact construction
- Maintenance free Plastic- Piston actuator non corrosive
- Actuators for different orientated air control connection

Technical specifications

Design	Diaphragm Valve
Size range	DN 12 - 15
Diaphragm size see page 11	MA 10
Body material	Investment cast 1.4435/316L
End connection standards see page 8-9	Threaded socket: DIN ISO 228
Diaphragm material	EPDM, PTFE, NBR, FPM
Max. working pressure	6 bar (87 PSI)
Temperature range	Actuator type PS: -10 °C to +80 °C Actuator type HS: -10 °C to +150 °C depending on diaphragm and body material
Control functions	Single acting (NC or NO) and double-acting (DA) pneumatic piston actuator

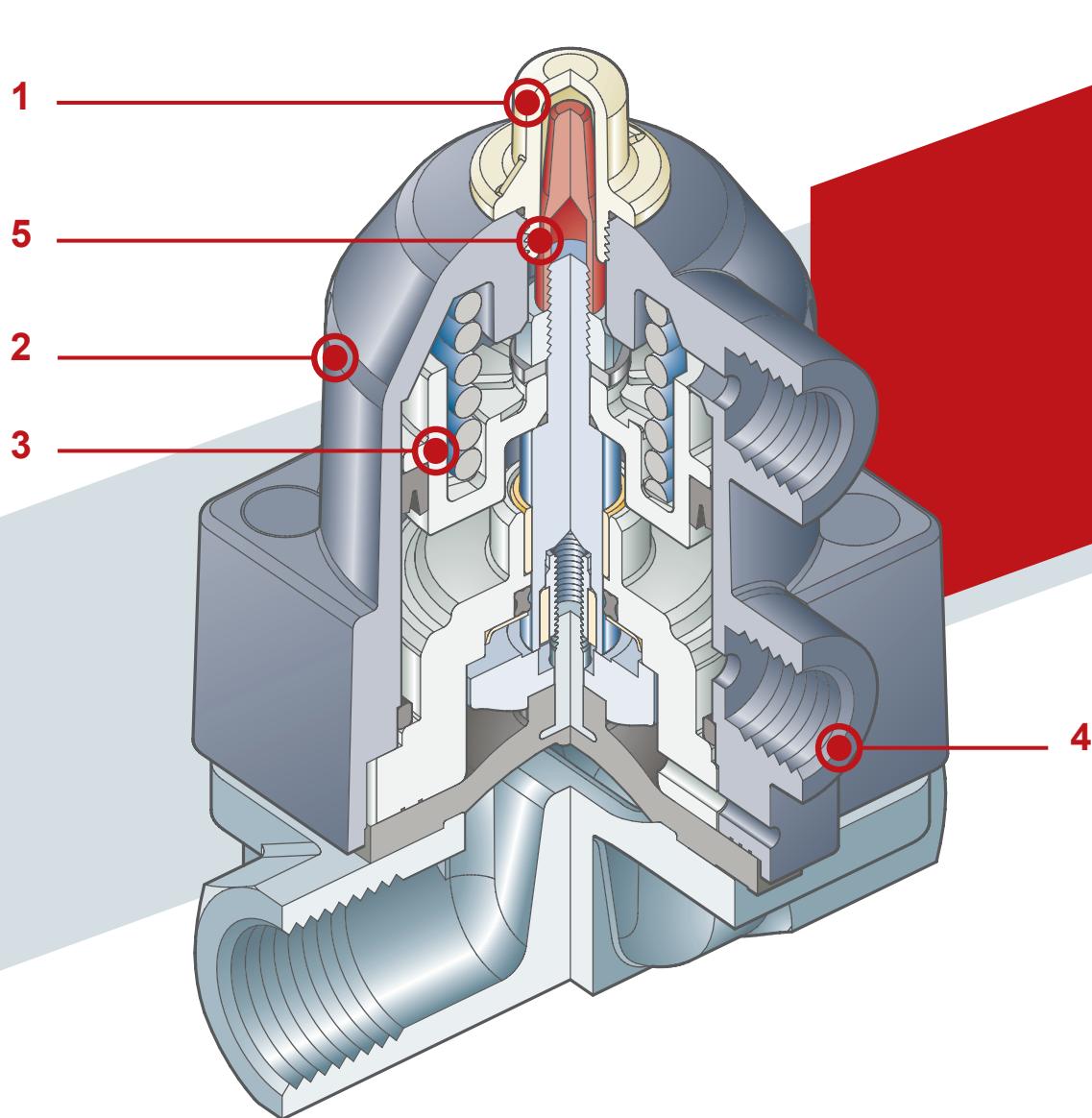
Note: Possible actuator and valve body combinations see page 7.
Ordering key see page 60.

Technical specifications - pneumatic actuator

Design	Efficient Plastic Piston Actuator
Actuator material	Actuator type PS: PP-GR Actuator type HS: PA MXD6-GF
Max. control air pressure	NC: 6 bar (87 PSI) NO/DA: 5 bar (72 PSI)
Control media	Dry or lubricated filtered compressed air. If using other fluids, contact the SED service center
Filling volume	NC: 0,027 NL, DN 12 - 15 NO/DA: 0,027 NL, DN 12 - 15
Control media temperature	Max. 40 °C
Ambient temperature	-20 °C to +50 °C
Accessories	See page 54

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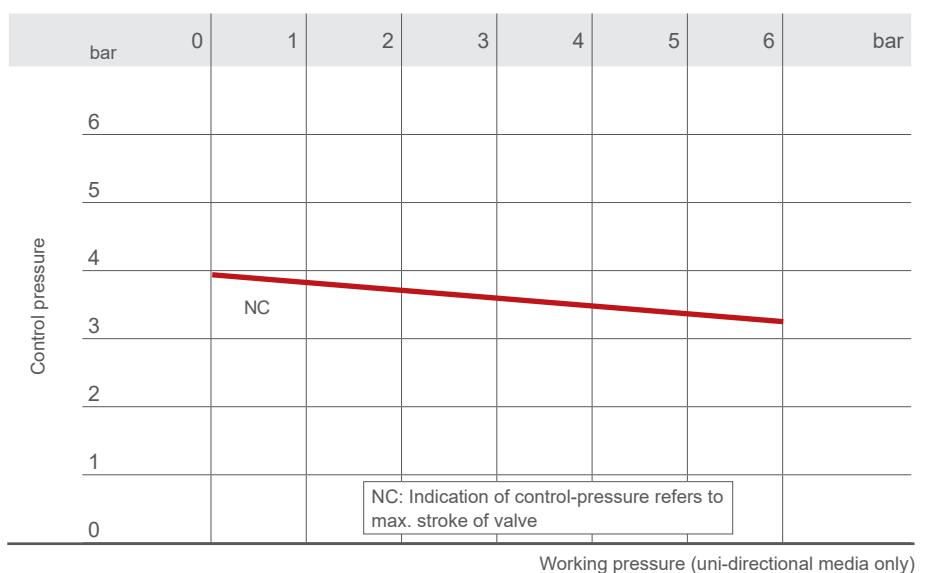
- 1** High visibility optical position indicator protected by a transparent cover with O-Ring
- 2** Light and compact piston actuator in PP-GR, ideal for heavy-duty applications in chemically aggressive environments with a diaphragm perimeter containment system that ensures the perfect compression of the hard rubber without any lateral expansion
- 3** Piston in high strength PA MXD6-GF. The high quality finish of the surface guarantees perfect slidability over the seal and ensures a long working life without any actuator maintenance
- 4** Easy to install, even in confined spaces: compressed air inlets with G 1/4" threaded optional available in alignment with the piping
- 5** Connection thread for assembly of valve control equipment

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Type 188 - Technical Data

Control pressure according to Working pressure Type 188 NC

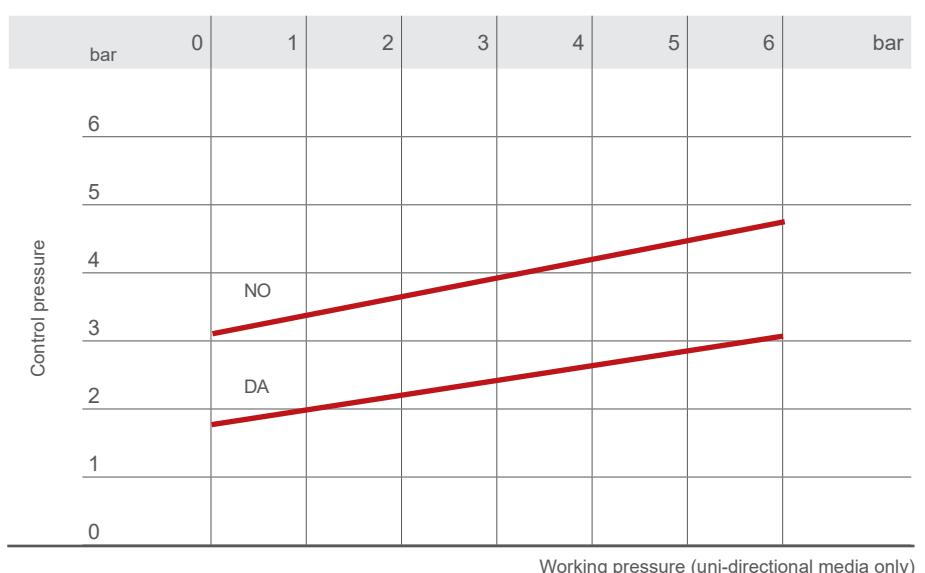
Minimum control pressure according to working pressure with EPDM, FPM diaphragm



Control pressure according to Working pressure Type 188 NO-DA

Minimum control pressure according to working pressure with EPDM, FPM diaphragm.

Higher control pressure than required may affect the lifetime of the working diaphragm.



K_v100 flow coefficient

The K_v100 flow coefficient is the Q flow rate of cubic meter per hour of water at a temperature of 20°C that will generate $\Delta p = 1$ bar pressure drop at a certain valve position.

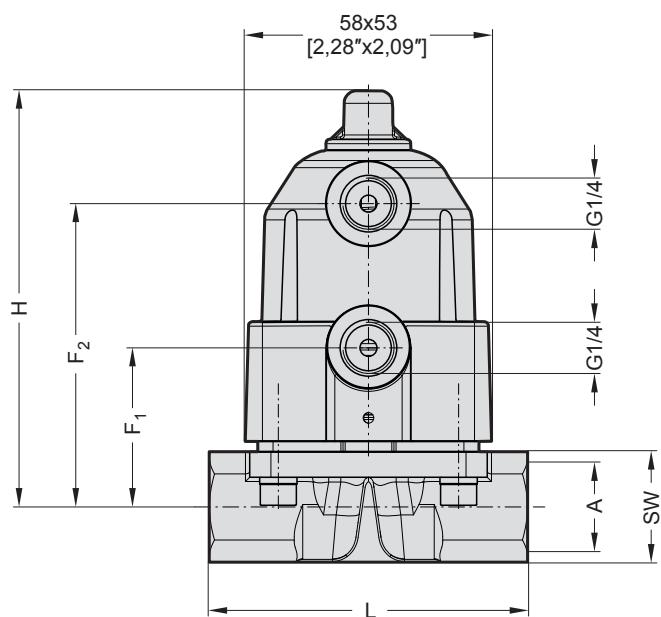
The K_v100 values shown in the table are calculated with the valve completely open.

DN	12	15
K _v m ³ /h	2,8	3,5
C _v gpm	3,3	4,0

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Type 188 - Dimensions

Threaded Socket



Dimensions (mm)

DN	MA	A	L	SW	H	F ₁	F ₂	Weight kg
12	10	G3/8"	56	22	99	37	71	0,48
15	10	G1/2"	75	27	100	38	72	0,54