

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

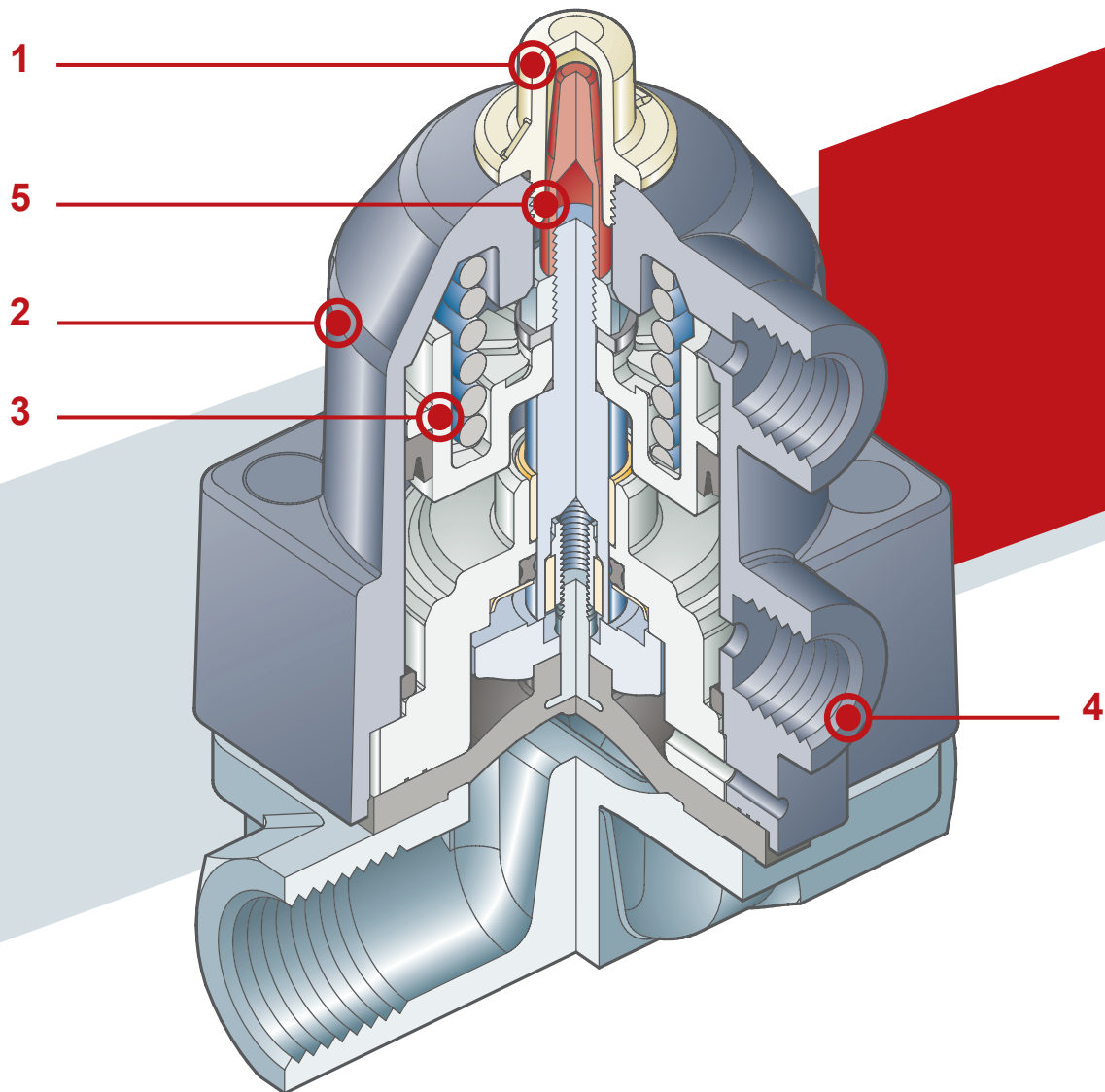
Technical specifications	
Design	Diaphragm Valve
Size range	DN 12 - 15
Diaphragm size see page 11	MA 10
Body material	Investment cast 1.4435/316L
End connection standards see page 8-9	Threaded socket: DIN ISO 228
Diaphragm material	EPDM, PTFE, NBR, FPM
Max. working pressure	6 bar (87 PSI)
Temperature 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**

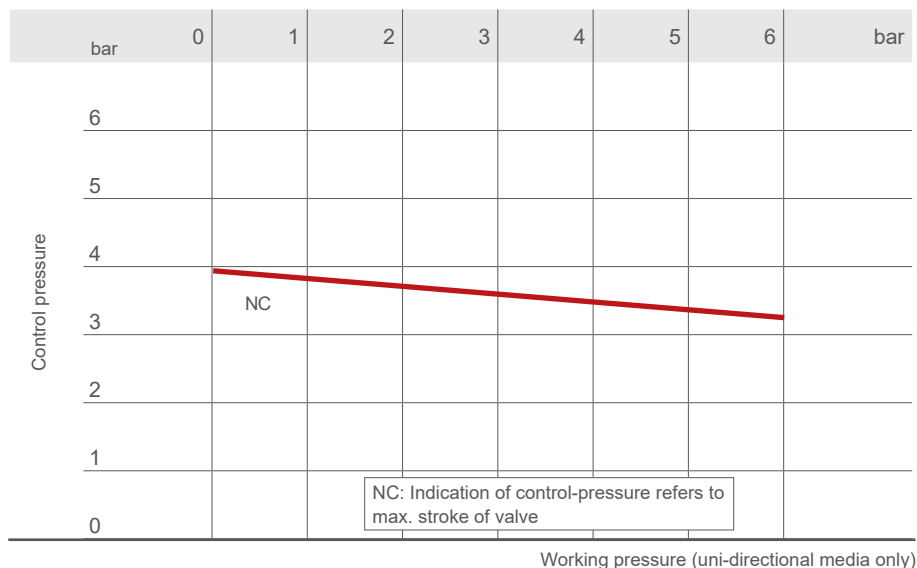
5 Connection thread for assembly of **valve control equipment**

Pneumatically Operated Valve

Type 188 - Technical Data

Control pressure according to Working pressure Type 188 NC

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

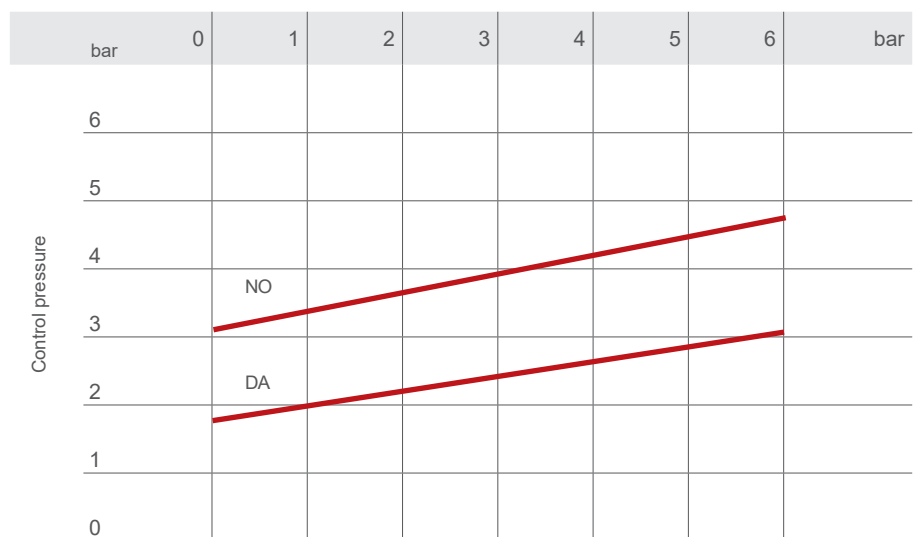


Working pressure (uni-directional media only)

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.



Working pressure (uni-directional media only)

K_v100 flow coefficient

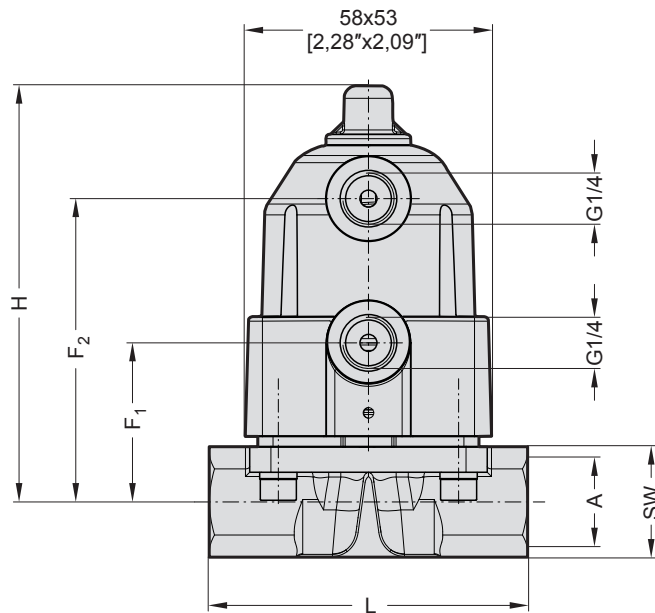
The K_v100 flow coefficient is the Q flow rate of cubic meter per hour of water at a temperature of 20°C that will generate Δp = 1 bar pressure drop at a certain valve position.

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

DN	12	15
Kv m ³ /h	2,8	3,5
Cv gpm	3,3	4,0

Pneumatically Operated Valve 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