

METAL DIAPHRAGM SHUT OFF VALVE FOR USING IN INDUSTRIAL GAS SUPPLY SYSTEMS

- VTLA - LOW FLOW RANGE

2-port valve
1 × inlet; 1 × outlet



Two port metal diaphragm shut off valve used in supply systems for industrial, inert, flammable, oxidizing gases and gas mixtures. Not usable for corrosive or toxic gases and gas mixtures.

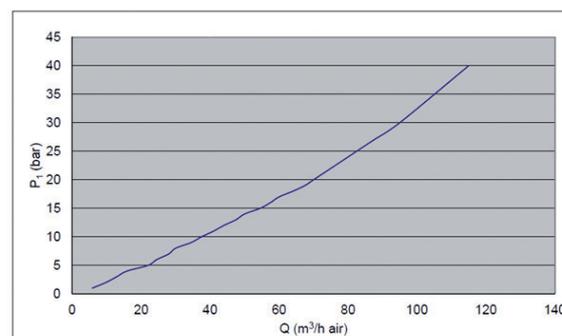


SPECIAL FEATURES:

- > Metal diaphragm valve
- > Compact design
- > Designed and approved in accordance with relevant sections of EN ISO 10297:2015
- > O₂- ignition test regarding EN ISO 10297 for main shut off valve
- > Electrostatic chargeability test
 - fulfill requirements according DIN EN ISO 80070-36; IEC TS 60079-32-1 and German TRGS 727
 - usable in EX- areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC

| TECHNICAL DATA | |
|--------------------------------------|--|
| Working temperature: | -20°C to + 60°C |
| Inlet/Outlet ports: | NPT 1/4" female |
| Max. working pressure: | 300 bar |
| Kv-value: | 0,25 |
| Seat diameter: | 5 mm |
| Leakage rate seat: | less than 6 cm ³ /h (20°C; 1,013 bar absolut) Compressed Air |
| Leakage rate outside: | less than 6 cm ³ /h (20°C; 1,013 bar absolut) Compressed Air |
| Filter inlet: | 100 µm mesh |
| Filter outlet ports: | 100 µm mesh |
| Mounting holes: | M6 |
| Weight: | 0,30 kg |
| Material gas wetted parts: | |
| Valve body: | BRASS (2.0401.26) |
| Valve diaphragm: | 2 x Elgiloy (2.4711) |
| Valve seat: | PCTFE |
| Valve popet: | BRASS (2.0401.126) |
| Tests in production: | Pressure test with dry air (ISO 8573 [1:2:2]) of each item Seat leakage test with dry air (ISO 8573 [1:2:2]) of each item Test of functionality of each item |
| Approvals during development: | Type test accordance with relevant sections of EN ISO 10297:2015 O ₂ ignition test regarding EN ISO 10297 for main shut off valve Electrostatic chargeability test - fulfill requirements according DIN EN ISO 80070-36; IEC TS 60079-32-1 and German TRGS 727 - usable in EX- areas zones 1 and 2 for gases with explosion risk group I; IIA; IIB; IIC |

FLOW CHART- FLOW VERSUS PRESSURE DROP:



DRAWINGS

ORDERING INFORMATION

VTLA X X XX XXXX XXXX

| | |
|---|--|
| PORTING CODE: R - RIGHT INLET | PORT 5 SEE THE LIST OF CONNECTIONS |
| *GAS TYPE: S - STANDARD GASES | PORT 1 SEE THE LIST OF CONNECTIONS |
| INLET PRESSURE: F1 - 130 BAR (Brass fittings only) GX - 300 BAR (SS fittings only) | |

Basic valve rated for 300 bar

EXAMPLE: VTLARSGXN14FN14F

LIST OF CONNECTIONS

- N14F - NPT1/4" FEMALE
- 0001 - WITHOUT (PLUGGED)
- M06B - COMPRESSION FITTING \varnothing 6MM BRASS
- M08B - COMPRESSION FITTING \varnothing 8MM BRASS
- M10B - COMPRESSION FITTING \varnothing 10MM BRASS
- M12B - COMPRESSION FITTING \varnothing 12MM BRASS
- M06S - COMPRESSION FITTING \varnothing 6MM SS
- M08S - COMPRESSION FITTING \varnothing 8MM SS
- M10S - COMPRESSION FITTING \varnothing 10MM SS
- M12S - COMPRESSION FITTING \varnothing 12MM SS
- IX4B - COMPRESSION FITTING \varnothing 1/4" BRASS
- IX6B - COMPRESSION FITTING \varnothing 3/8" BRASS
- IX8B - COMPRESSION FITTING \varnothing 1/2" BRASS
- IX4S - COMPRESSION FITTING \varnothing 1/4" SS
- IX6S - COMPRESSION FITTING \varnothing 3/8" SS
- IX8S - COMPRESSION FITTING \varnothing 1/2" SS

***GAS TYPE**
DEFINED BY PRODUCT LINE AND TYPE
(CHECK AVAILABLE GAS TYPE IN DATASHEET)



Link to product configurator