

VSO® Low Flow

Low Flow Miniature Proportional Valve

The VSO® LF (Low Flow) offers the same benefits as the VSO® valve with enhanced flow control for applications where control is critical or flow is required below 600 sccm. This miniature solenoid-operated valve automates the flow of gas in proportion to the input current.

Features

- ◆ Uses either DC current or pulse width modulation; closed loop feedback delivers optimal system performance.
- ◆ Offers computer automated calibrations and full calibration traceability.
- ◆ Rated for 10 million life cycles.
- ◆ Maintains ideal flow through thermal compensation.
- ◆ Highly repeatable.



Physical Properties

Valve Type:
2-Way Normally Closed

Media:
Air, argon, helium, hydrogen, methane, nitrogen, oxygen, & others

Operating Environment:
0 to 55°C

Storage Temperature:
-40 to 70°C

Length:
1.785 in (45.34 mm)

Width:
0.625 in (16.51 mm)

Height:
0.67 in (17.02 mm)

Porting:
Manifold mount with 17 micron screens

Weight:
2.2 oz (62.86 grams)

Internal Volume:
0.031 in³ (.508 sccm)

Filtration:
17 micron

Lubrication:
None required

Oxygen Clean:
Available

Electrical

Power:
2.0 Watts maximum

Voltage:
See Coil Selection under Ordering Information

Oxygen and analytically clean:
Standard

Performance Characteristics

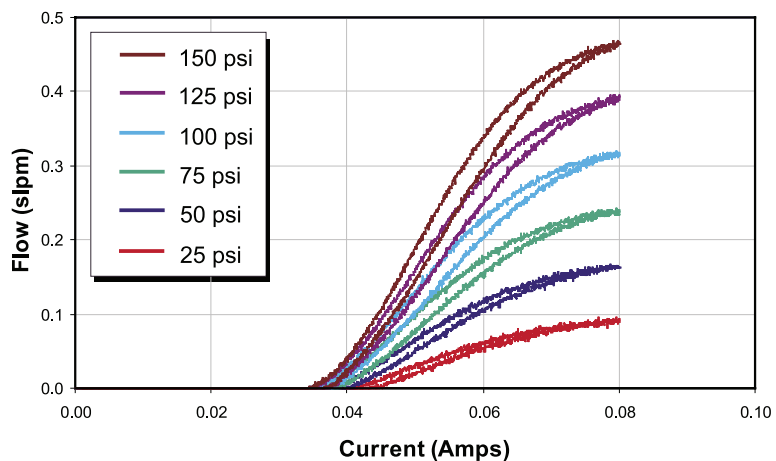
Leak Rate:
≤0.2 sccm of helium (bubble tight)

Response:
<15 msec cycling

Orifice Sizes:
(See Ordering Info.)
0.003" (0.076 mm)

Flow

VSO Low Flow Typical Air Flow



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