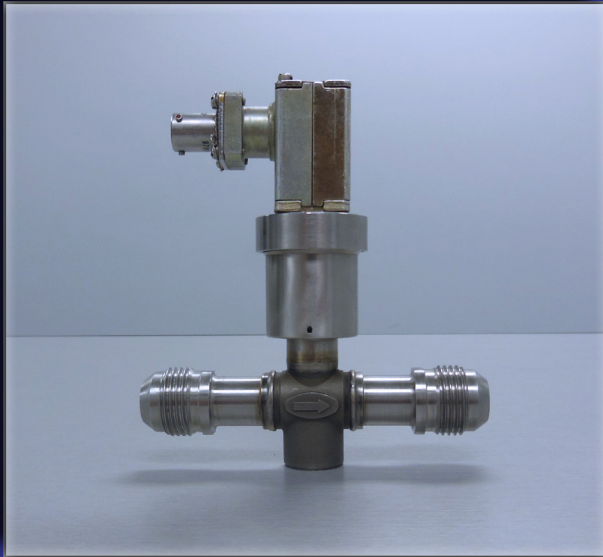


V45000

2-Way High Temperature Solenoid Valve



Valcor Engineering Corporation



DESCRIPTION

V45000 are pilot operated, solenoid shut-off valves designed for operation with high temperature media. The piloted operation enables them to control higher flows with minimal power consumption, and require a minimum upstream pressure to operate. Valcor's proprietary floating seal technology provides tight shut-off, long service life, and the ability to handle particulates in the fluid stream without leaking. They are well-suited for the extreme vibration, temperature, and cycle life requirements found in the most severe aircraft and rotorcraft operating conditions. V45000 valves are available in a normally closed or normally open configuration.

APPLICATION

V45000 valves are used with high flows of ram or hot engine bleed air at low to medium pressure. They are also suitable for controlling the high flow of liquids.

FEATURES

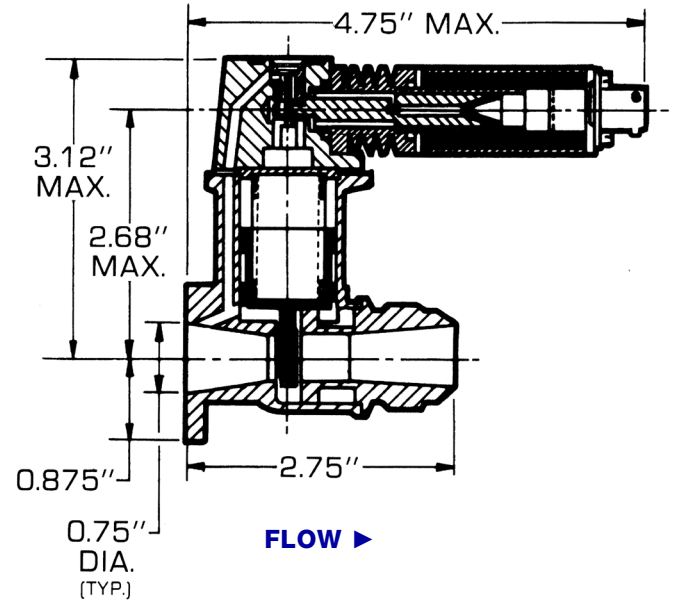
Configuration A

- Maximum Operating Pressure: 100 PSI
- Proof Pressure: 200 PSIG
- Burst Pressure: 400 PSIG
- Temperature: -65°F to +250°F (ambient), -65°F to +750°F (operating)
- Weight: 1.8 lbs. (approx.)

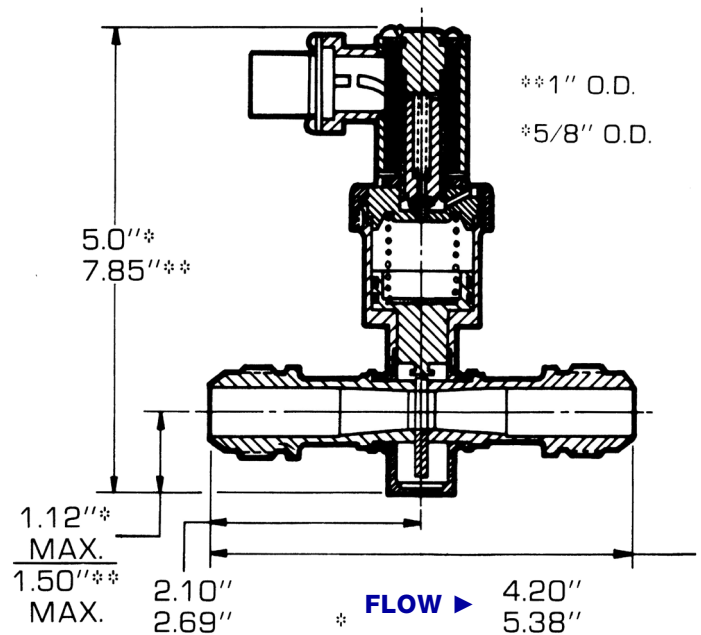
Configuration B

- Maximum Operating Pressure: 20-250 PSIG
- Proof Pressure: 570 PSIG
- Burst Pressure: 950 PSIG
- Temperature: -65°F to +350°F (ambient), -65°F to +750°F (operating)
- MS33648 STD ports; 5/8" and 1" OD line ports
- Weight: 1.1 lbs. (approx.)

CONFIGURATION A



CONFIGURATION B



Custom designs are our specialty. Contact us today to see how we can help on your next project.

Valcor Engineering Corporation
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V45000

2-Way High Temperature Solenoid Valve



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CONFIGURATION A

Operating Pressure & Flow Ranges

Equiv. Sharp Edged Orifice CD=0.65	Cv	Operating Pressure (PSIG)	Ambient Temp.	Min. Volts DC
0.75	10	20-90	165°F	18

Electrical Data

Voltage	18 to 30 VDC
Duty	Continuous
Current	1 amp at 30 VDC and at 70°F
Electrical Connector	To suit customer requirements

Leakage

External	0.03 lbs/min at 90 PSIG
Internal	0.25 lbs/min (Gas)

CONFIGURATION B

Operating Pressure & Flow Ranges

Equiv. Sharp Edged Orifice CD=0.65	Cv	Operating Pressure (PSIG)	Ambient Temp.	Min. Volts DC
0.52	5.2	25-250	165°F	18
0.83	13.3	25-250	350°F	18

Electrical Data

Voltage	18 to 30 VDC
Duty	Continuous
Current	1 amp max. at 30 VDC and at 70°F
Electrical Connector	To suit customer requirements

Leakage

External	0.03 lbs/min (Gas)
Internal	0.25 lbs/min (Gas)

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