

V66800

2-Way Normally Open or Normally Closed High Flow Shut-Off Solenoid Valve



Valcor Engineering Corporation



DESCRIPTION

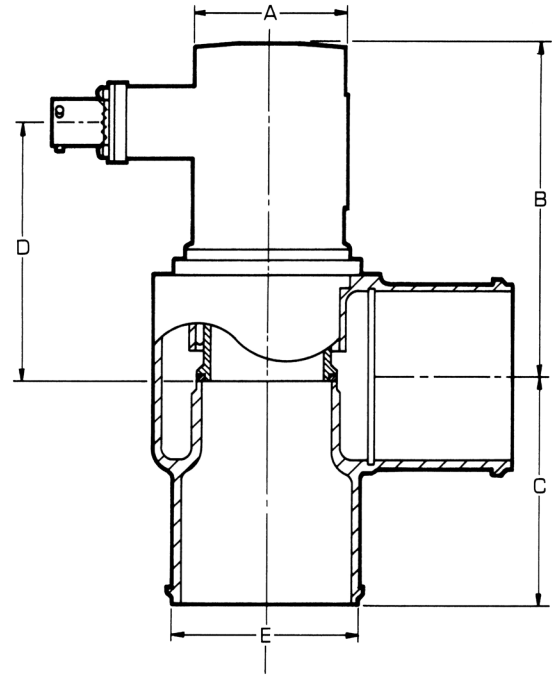
V66800 is a direct acting diaphragm solenoid shut-off valve. It uses a pressure-balanced diaphragm to control high flows with low power consumption and requires no minimum operating pressure. It is well-suited for the extreme vibration, temperature, and cycle life requirements found in the most severe aircraft and rotorcraft operating conditions. The V66800 is available in normally closed or normally open configuration.

APPLICATION

V66800 valves are used for high flows of ram air or engine bleed air at low to medium pressure.

FEATURES

- Maximum Operating Pressure: 150 PSIG
- Proof Pressure: 225 PSIG
- Burst Pressure: 600 PSIG
- Leak Rate: Internal is 10 scc/hr gas and 0 cc/min liquid. External is 0 cc/min at 150 PSIG
- Temperature: -65°F to +165°F (standard), -65°F to +400°F (special construction)
- Current: 1.5 amps at 30 VDC at 70°F; 18-30 VDC continuous duty
- Electrical Connection: MS3102-10SL-4P standard
- Wetted Materials: Aluminum, CRES 303, 430F, 302, Fluorosilicone
- MS33648 STD ports; 1" and 2" OD line available
- Weight: 1.5 lbs. with 1" ports, 2.3 lbs. with 2" ports
- 1" and 2" OD Line
- Fully customizable for your application



Flow Direction Optional

Tabulation

Port Size	A	B	C	D	E
-16	1.8"	4.0"	2.2"	3.15"	1.14"
-32	1.8"	4.0"	2.8"	3.15"	2.25"

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

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Operating Pressure & Flow Ranges

Port Size	Equiv. Sharp Edged Orifice CD=0.65	Cv	Operating Pressure (PSIG)	Ambient Temp.	Min. Volts DC
-16	0.75	11	0-150	165°F	18
-32	1.62	50	0-60	165°F	18

These ratings are based on using hydraulic fluids. For higher temperatures, the pressure rating must be reduced. The following table approximates the derating required.

Temperature	Derating Factor
250°F	0.71
350°F	0.62

Electrical Data

Voltage	18 to 30 VDC (higher ratings available)
Duty	Continuous
Current	1.5 amps at 30 VDC and at 70°F
Electrical Connector	MS3102-10SL-4P is standard. Other receptacles available.

Leakage

External	0 cc/min at 150 PSIG
Internal	Liquid Service: 0 cc/min Gas Service: 10 scc/hr maximum

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