

V66800

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

Valcor Aerospace– 2-Way Direct Acting Solenoid Valve

DESCRIPTION

The series 66800 are compact, lightweight, direct acting solenoid shut-off valves which utilize a diaphragm design. These valves provide high flow capability by employing a balancing diaphragm that assures friction-free, low hysteresis motion. Normally closed valves are standard in this series. However, normally open configurations can be made for special applications. A fluorosilicon elastomer is used for the specially designed seat seal. Tight sealing is achieved by means of this seat design.

APPLICATION

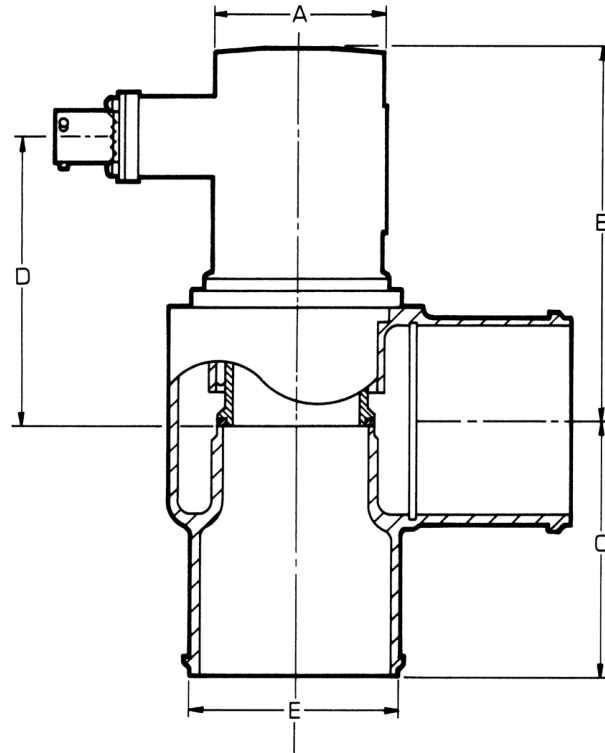
Series 66800 valves are designed for high flow of ram air and engine bleed air at low to medium pressures. They provide tight shut-off, large capacity and require no minimum operating pressure to function. Ports are MS33648 STD.

FEATURES

- 2-Way Shut-Off
- 1" and 2" O.D. Line
- Optional position indication is available
- Configurations: Normally Closed, Normally Open (Special)
- Temperature: -65°F to +165°F (Standard Construction), -65°F to +400°F (Special Construction)
- Pressure Range: 0-150 PSIG Maximum
- Proof Pressure: 225 PSIG
- Burst Pressure: 600 PSIG Maximum
- Weight 1.5 lbs (approx.) with 1" ports, 2.3 lbs (approx.) with 2" ports



SOLENOID VALVE SERIES 66800



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"

Specifications

Operating Pressure and Flow Ratings

Port Size	Equiv. Sharp Edged Orifice CD = .65	Operating Pressure (PSIG)	Ambient Temp.	Min. Volts DC	Cv
-16	.75	0-150	165°F	18	.11
-32	1.62	0-60	165°F	18	.50

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 are available.

Leakage

External	Zero over range of 0 to 150 PSIG
Internal	Liquid Service, zero drops in 1 minute. Gas Service, 10 scc/hour maximum

Temperature	Derating Factor
250°F	.71
350°F	.62
450°F	.54

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