V70000

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





DESCRIPTION

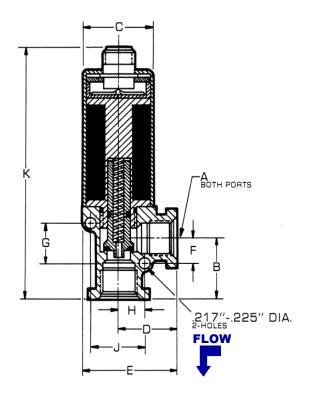
V70000 are direct acting solenoid valves with a balanced poppet. They are designed for use with aviation fuels, non-corrosive gases, and non-aromatic hydraulic fluids, and are well-suited for the extreme vibration, temperature, and cycle life requirements found in the most severe aircraft operating conditions. The compact size and low weight allow these valves to be used in the tightest space available. They utilize an elastomeric poppet seal that provides tight shut-off and long service life without leaking. V7000 valves do not require system pressure to operate, and are available in a normally closed or normally open configuration.

APPLICATION

V70000 valves are typically used on aircraft pneumatic, fuel, and hydraulic systems. A high temperature option enables them for use with hot engine bleed air.

FEATURES

- Maximum Operating Pressure: 0-1000 PSIG
- Proof Pressure: 1500 PSIG
- · Burst Pressure: 3000 PSIG
- Flow Rate: Cv 0.78, 1.70 and 4.15; Cd=0.65
 Leak Rate: Internal is 0 cc/min liquid, 4 cc/min gas. External is 0 cc/min at 1000 PSIG
- Temperature: -65°F to +165°F (standard), -65°F to +450°F (special construction)
- Wetted Materials: Aluminum, CRES 303, 430F, 302, Fluorosilicone
- 3/8", 1/2", and 3/4" OD line ports
- Inline or right-angle porting
- Weight: 1.3 lbs. to 2.0 lbs.
- Self-cleaning, wear compensating, seal design
- Fully customizable to your application



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

> Valcor Engineering Corporation 2 Lawrence Road | Springfield, NJ 07081 (973) 467-8400 | aircraft@valcor.com www.valcor.com

V70000

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



Tabulation

						Inche	s				
Port Size	Α	В	C	D	E	F	G	Н	I	J	K
-6	1.25	1.31	1.06	1.75	0.50	0.75	1.75	1.00	4.78	1.00	4.80
-8	1.31	1.50	1.22	2.00	0.56	2.00	0.87	1.15	5.63	1.00	4.80
-12	1.65	1.87	1.63	2.63	0.75	2.63	1.50	1.50	6.25	1.00	4.80

Operating Pressure & Flow Ranges

Port Size	Equiv. Sharp Edged Orifice CD=0.65	Cv	Operating Pressure (PSIG)	Ambient Temp.	Min. Volts DC
-6	0.2	0.8	0-1000	165°F	18
-8	0.3	1.7	0-1000	165°F	18
-12	0.46	4.1	0-500	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
Duty	Continuous
Current	1.5 amps max. at 30 VDC at 70°F
Electrical Connector	MS 3102-10SL-4P ton mount standard

Leakage

External	Zero over range of 0 cc/min at 1000 PSIG				
Internal	Liquid Service: 0 cc/min				
	Gas Service: 4 cc/min.				

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