

AEROSPACE VALVE

HIGH PRESSURE HYDRAULIC FLOW CONTROL VALVE | PRODUCT DETAIL

Description

The values listed below are the customer requirements for a specific application. Multiple versions with varying performance requirements exist. The featured product is a typical three-way, two-position, poppet style, spring off-set, direct acting, solenoid operated face mount valve. This valve is designed to control the flow of hydraulic fluid.

Hydraulic Characteristics

Media:	MIL-H-5606	
Pressure:	Pressure to Service	Return
Normal Operating:	280 Bar	8-35 Bar
Maximum Operating:	385 Bar	48 Bar
Proof:	420 Bar	280 Bar
Burst:	700 Bar	420 Bar

Flow

P to S: 0.75 l/min at 80 Bar differential pressure

S to R: 0.75 l/min at 80 Bar differential pressure

Leakage

Internal - (energized) 5 cc/min max at 100-280 Bar

(de-energized) 5 cc/min max at 100-280 Bar

External - Zero

Relief Pressure

Greater than or equal to 400 Bar differential pressure de-energized

Electrical Characteristics

Voltage: 16.0 -35.0 VDC

Coil Resistance: 80 Ohms nominal at +25°C

Response: (opening and closing) 20 msec max at 280 Bar differential pressure

Duty Cycle: Continuous

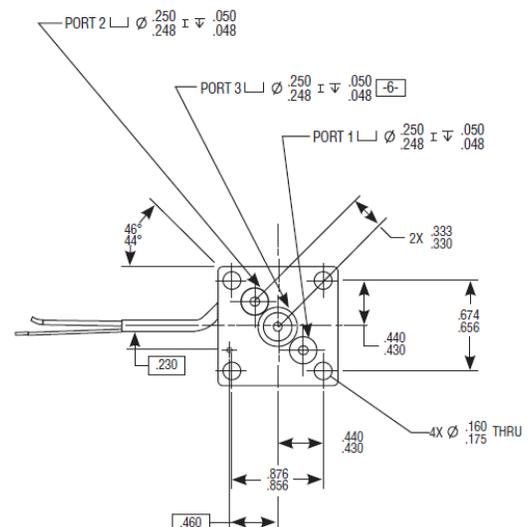
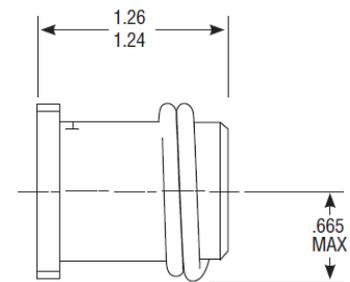
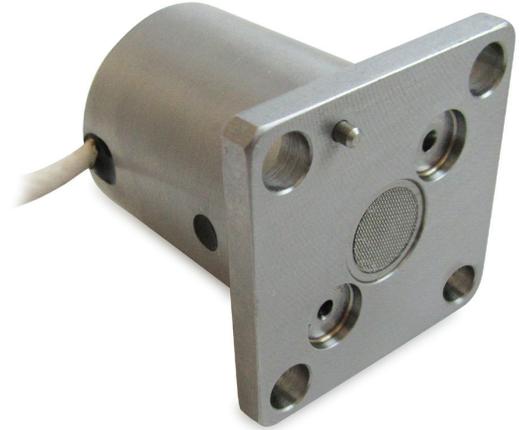
Electrical Characteristics

Temperature: Ambient= 31°C to 96°C, Media = -31°C to 135°C

Durability: 102,000 min cycles

Mass: 13 Kg max

Materials: Various grades of stainless steel with an epoxy encapsulated coil





We specialize in customized valves for Emergency Systems, Fuel/Engine Systems, Satellite/Rocket Launch, Thrust Vector Actuation Systems, Braking Controls, Auxiliary Power Units, Thrust Reverse Actuators, Steering/Landing Controls and Flight/Cockpit Controls, and many more. We utilize advanced 3D design, FEA (stress, CFD, magnetic, etc.) in house testing qualification and validation to provide world class products. Our family of aerospace valves includes:

- Solenoid Operated Valves
- Check/Relief Valves
- Shuttle Valves
- Regulating Valves
- Manifold Systems



ABOUT US

We are a global leader in the design and manufacture of engineered solutions including solenoids, solenoid valves, linear and rotary position sensors, motors, electric actuators and flame arrestors. We serve hundreds of customers in diverse markets throughout the world with market-leading solutions enabled by our extensive design, test and manufacturing capabilities.

