Aerospace Valves | Product Detail

High Pressure Hydraulic Fluid Flow Control Valve

Description
The values listed below reflect 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

Other
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

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• Application Solutions
• Hardware Engineering
• Mechanical Design & Development
• Rapid Prototyping
• Qualification Testing
• Industry Certifications
• Vertical Integration (Manufacturing)
• Serial Production

Our family of aerospace valves includes: Solenoid Operated, Check / Relief, Shuttle, Regulating and Anti-Ice as well as Manifold Systems. 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 including qualification and validation to provide world class products. LISK has been helping our customers reach new heights through collaborative engineering since 1910.