Hydraulic Interface Valve

Piston Type (150 PSI Max)

3-WAY NC, 1/4" FNPT, .09 ORIFICE, 10,000 PSI, w/o MANUAL OVERRIDE

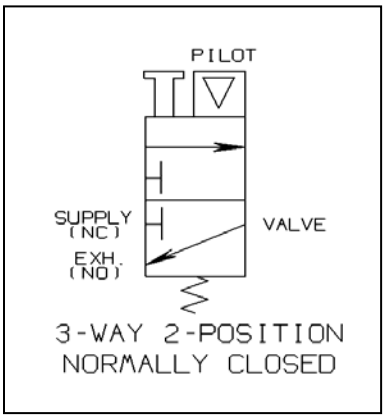
Model 20SHM10

Conforms to the SEP category of the European Pressure Equipment Directive Issue No. 97/23/EC

The **20SHM10** is a two position, three-way normally closed, Pilot Supply pressure operated, hydraulic flow control valve assembly. It is designed to establish high-pressure hydraulic fluid output, automatically with each application of relatively low Pilot Supply pressure.

A loss of Pilot Supply pressure will block the hydraulic Supply (inlet) port and exhaust the accumulated operating pressure within the high pressure receiving control circuit. Hydraulic Interfaces (Interface Valves) are generally used to control the open/close operating sequence of Surface Controlled Sub-Surface Safety Valves (SCSSV) or Surface Safety Valves (SSV).

The model 20SHM10 can be provided with an optional manual Override Handle (shown) to establish internal hydraulic Supply to Valve flow, without the application of Pilot Supply pressure. This feature allows the SCSSV or SSV to be opened for normal start-up operation or for testing purposes.



* Indicates parts included in a Repair Kit

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Sigma Model Number 20SHM10

3-WAY NC, 1/4" FNPT, .125 ORIFICE, 10,000 PSI W/MANUAL OVERRIDE

Product Specifications

Control Function: 3-Way, 2-position, spring return (Block before Bleed)

Body Pressure Rating (Control Ports): 10,000 PSI (690 Bar)

Seal Material: Viton

Operator (Pilot Cap): Piston 150 PSI (10.34 Bar) maximum

Instrument Supply Media for Operator (Pilot Cap): Pneumatic or Hydraulic

Pilot Port Rotation (Orientation):
Top Center

Manual Override Handle: Optional Rotating Screw Type

Connection Size (Body):
¼"-18 FNPT, Supply, Valve & Exhaust Ports
1/8"-27 FNPT Pilot Port

Wetted Component Material (Metal)**:** 316 Stainless Steel and 17-4PH SS

Panel Mount: No

Mount Bracket Available: None

Pilot Supply Operating Ratio: 120 to 1

Orifice: .08 Diameter **Cv Factor:** .10

Weight: 4.5 Lbs.

Operating Temperature: -20° F to +250° F (-29° C to +121° C)

Overall Dimensions: 5-1/2 Height x 3.25" Pilot Head Diameter

Configuration – Normally Closed (no pilot pressure)

Supply - Inlet (Hydraulic Supply Pressure) Closed to Valve Port
Valve - Outlet Pressure to Receiving Control Circuit (Open to Exhaust Port)
Exhaust - Hydraulic Fluid Return to Reservoir

Repair Kit Information
Repair Kits contain all of the Seals and other components typically replaced when repairing the assembly. In order to maintain optimum operating control function, Sigma recommends changing the Repair Kit items once every two (2) years.