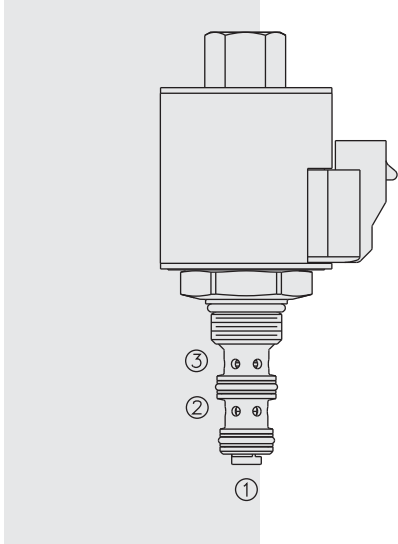


SV58-30 Spool, 3-Way, High Pressure



DESCRIPTION

A solenoid-operated, 3-way, direct-acting, spool-type, screw-in hydraulic directional valve designed for high pressure operation up to 345 bar (5000 psi).

OPERATION

When de-energized, the **SV58-30** allows flow from ② to ① while blocking flow at ③. When energized, the cartridge's spool shifts to open from ③ to ②, while blocking flow out ①.

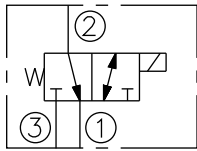
Note: Port ① must be connected to tank. Valve cannot withstand more than 276 bar (4000 psi) at the inlet of port ①.

FEATURES

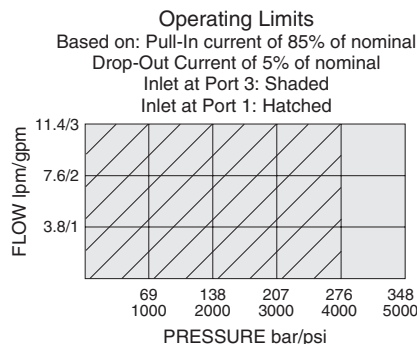
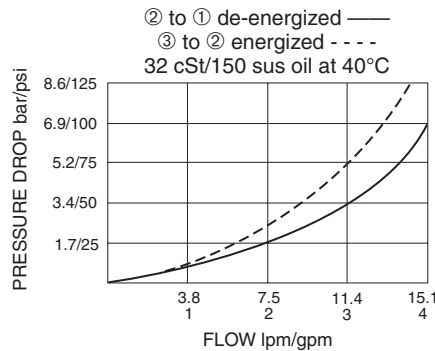
- Continuous-duty rated solenoid.
- Hardened precision spool and cage for long life.
- Optional coil voltages and terminations.
- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Optional waterproof E-Coils rated up to IP69K.
- Unitized, molded coil design.
- Fully guided spool.
- Compact size.

SYMBOLS

USAS/ISO:



PERFORMANCE (Cartridge Only)



RATINGS

Operating Pressure: 345 bar (5000 psi)

Flow: See Performance Chart

Internal Leakage:

Port ③ (De-energized): 131 ml/minute (8 cu. in./minute) max. at 345 bar (5000 psi);
 Port ① (Energized): 279 ml/minute (17 cu. in./minute) max. at 345 bar (5000 psi)

Temperature: -40 to 120°C with standard Buna seals;

-26 to 204°C with Fluorocarbon seals; -54 to 107°C with Polyurethane seals

Coil Duty Rating: Continuous from 85% to 115% of nominal voltage

Response Time: First indication of change of state with 100% voltage supplied at 80% of nominal flow rating: Energized: 22 msec.; De-energized: 12 msec.

Initial Coil Current Draw at 20°C: Standard Coil: 1.2 amps at 12 VDC;

0.13 amps at 115 VAC (full wave rectified);

E-Coil: 1.4 amps at 12 VDC; 0.7 amps at 24 VDC

Minimum Pull-in Voltage: 85% of nominal at 207 bar (3000 psi)

Filtration: See page 9.010.1

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

Installation: No restrictions; See page 9.020.1

Cavity: VC08-3, Variation "A"; See page 9.108.1

Cavity Tool: CT08-3XX; See page 8.600.1

Seal Kit: SK58-3X-MM; See page 8.650.1

Coil Nut: Part No. 7004400;

For E-coils manufactured prior to 1-1-04, see page 3.400.1 for coil nut info.

