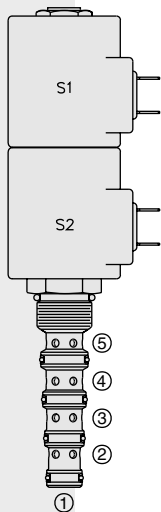


SOLENOID VALVES

SV10-57D Spool, 5-Way, 3-Position . . .



DESCRIPTION

A solenoid-operated, 5-way, 3-position, screw-in hydraulic cartridge valve with integral load-sense port.

OPERATION

When de-energized, the **SV10-57D** blocks flow at ⑤ while allowing flow from both ② and ④ to ③. When coil #1 is energized, flow is allowed from ⑤ to ②, and from ④ to ③. When coil #2 is energized, flow is allowed from ⑤ to ④, and from ② to ③. Load sense is connected to port ⑤ when the spool is in shifted positions.

FEATURES

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

RATINGS

Operating Pressure: 247 bar (3625 psi) with standard Buna N seals

Flow: 20 lpm (4 gpm) max. See performance chart

Internal Leakage: 164 cc/minute (10 cu. in./minute) max. at 207 bar (3000 psi)

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

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

Initial Coil Current Draw at 20° C: Standard Coil: 1.67 amps at 12 VDC; 0.18 amps at 115 VAC (full wave rectified). E-Coil: 1.6 amps at 12 VDC; 0.8 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)

Installation: No restrictions; See page 9.020.1

Cavity: VC10-5; See page 9.110.1

Cavity Tool: CT10-5XX; See page 8.600.1

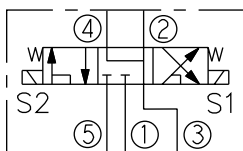
Seal Kit: SK10-5X-MMMM; See page 8.650.1

Coil Nut: Part No. 7004400; **Coil Spacer** for E-Coils: Part No. 4539700

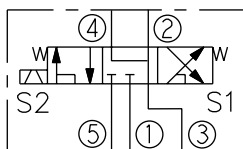
For E-coils manufactured prior to 1-1-04, see page 3.400.1 for coil nut & spacer info.

SYMBOLS

USASI:



ISO:



PERFORMANCE (Cartridge Only)

- ⑤ to ②, S1 energized: ———
 - ⑤ to ④, S2 energized: - - - -
 - ④ to ③, S1 energized
 - or ② to ③, S2 energized: - - - - -
- 32 cSt/150 sus oil at 40°C

