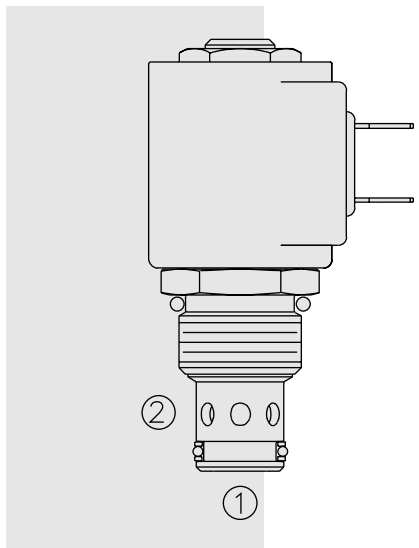


SOLENOID VALVES

SV80-25 Spool, 2-Way, Normally Open



DESCRIPTION

A solenoid-operated, 2-way, normally open, direct-acting, spool-type, screw-in hydraulic cartridge valve, designed to function as a bidirectional blocking valve.

OPERATION

When de-energized, the **SV80-25** allows flow in both directions.

When energized, the cartridge's spool shifts to close the bidirectional flow path.

FEATURES

- Continuous-duty rated solenoid.
- Hardened precision spool and cage for long life.
- Optional coil voltages and terminations.
- Both ports may be fully pressurized.
- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Unitized, molded coil design.
- Industry common cavity.

RATINGS

Operating Pressure: See Performance Chart

Flow: See Performance Chart

Internal Leakage: 82 cc/minute (5 in.³/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: 1.2 amps at 12 VDC; 0.13 amps at 115 VAC (full wave rectified)

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 ssu)

Installation: No restrictions; See page 9.020.1

Cavity: VC10-2; See page 9.110.1

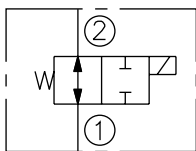
Cavity Tool: CT10-2XX; See page 8.600.1

Seal Kit: SK10-2X-M; See page 8.650.1

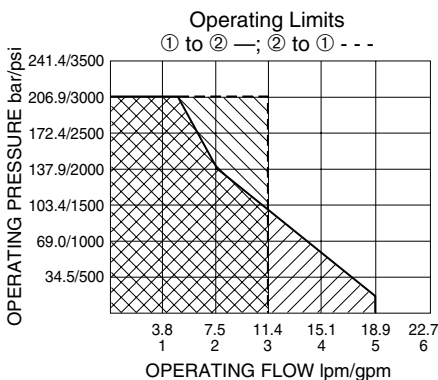
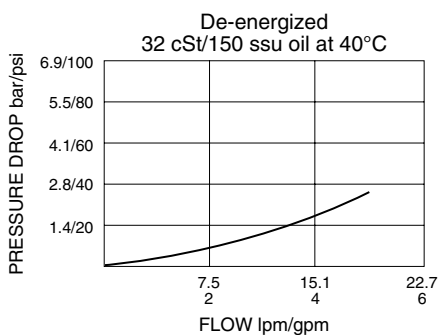
Coil Nut: Part No. 7004400

SYMBOLS

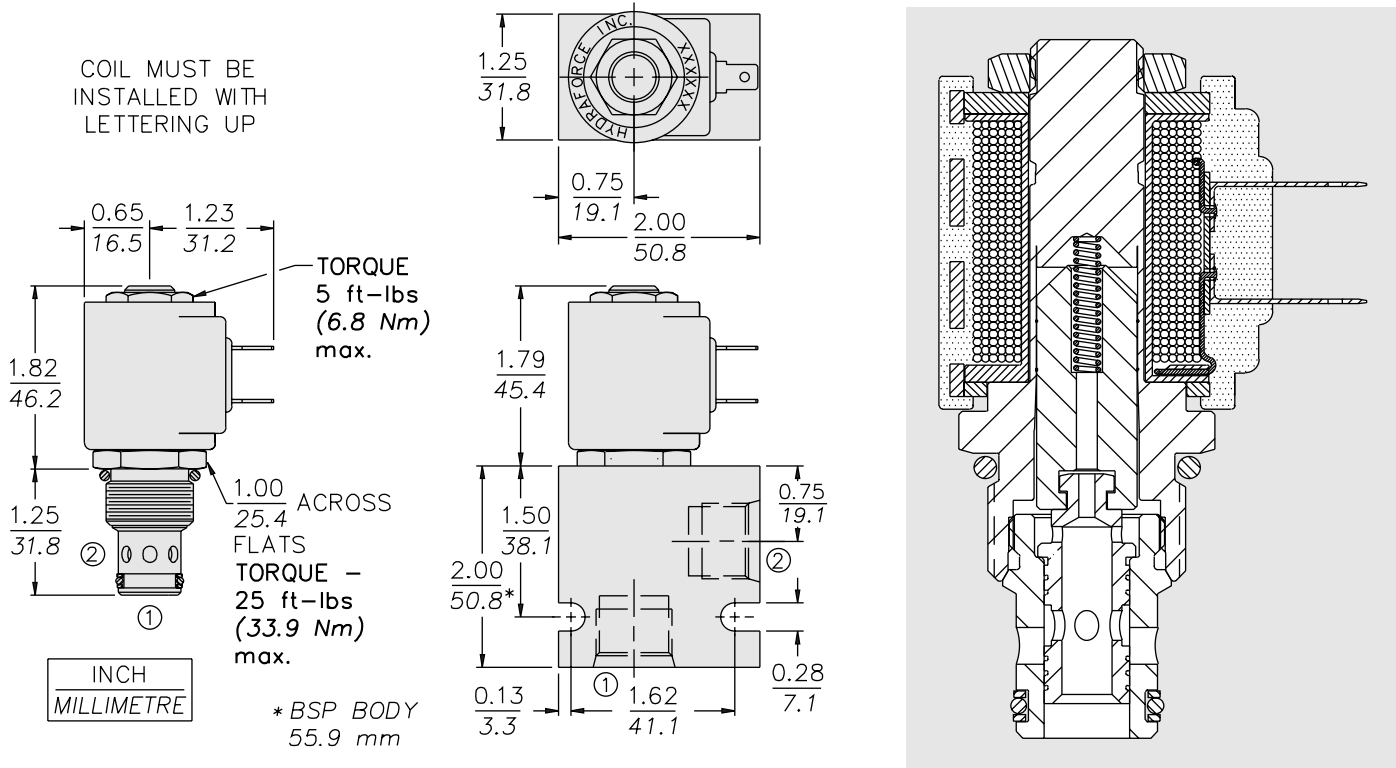
USASI/ISO:



PERFORMANCE (Cartridge Only)



DIMENSIONS



MATERIALS

Cartridge: Weight: 0.16 kg. (0.35 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-ups standard.

Standard Ported Body: Weight: 0.16 kg. (0.35 lbs.); Anodized high-strength 6061 T6 aluminum alloy, rated to 240 bar (3500 psi); See page 8.010.1. Ductile iron and steel bodies available; dimensions may differ; consult factory.

Standard Coil: Weight: 0.11 kg. (0.25 lbs.); Unitized thermoplastic encapsulated, Class H high temperature magnetwire; See page 3.200.1.

TO ORDER

SV80-25

Option

None (Blank)

Porting

- Cartridge Only **0**
- SAE 6 **6T**
- SAE 8 **8T**
- 1/4 in. BSP* **2B**
- 3/8 in. BSP* **3B**
- 1/2 in. BSP* **4B**

*BSP Body; U.K. Mfr. Only

Voltage

- 0** Less Coil
- 10** 10 VDC*
- 12** 12 VDC
- 24** 24 VDC
- 36** 36 VDC
- 48** 48 VDC
- 24** 24 VAC
- 115** 115 VAC
- 230** 230 VAC

*Available only with DS, DW or DL terminations

Terminations (VDC)

- DS** Dual Spades
- DG** DIN 43650
- DL** Leadwires (2)
- DL/W** Leads w/Weatherpak® Connectors
- DR** Deutsch DT04-2P

Terminations (VAC)

- AG** DIN 43650
- AP** 1/2 in. Conduit

Coils with internal diode are available. Consult factory.

Seals

- N** Buna N (Std.)
- V** Fluorocarbon