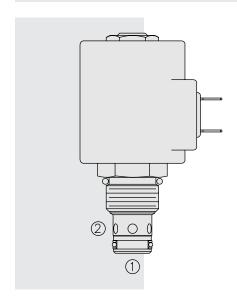
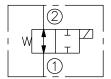
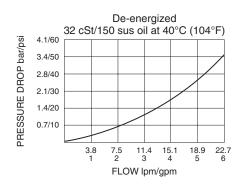
SV10-25 Spool, 2-Way, Normally Open



ISO SYMBOL



PERFORMANCE (Cartridge Only



DESCRIPTION

A solenoid-operated, two-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 SV10-25 allows flow in both directions.

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

Operation of Manual Override Option: The manual override feature is intended for emergency use, not continuous duty operation. To override, push button in and twist counterclockwise 180°. The internal spring will push the button out. In this position, the valve may be only partially shifted. To assure full override shift, pull the button out to its fullest extension and hold it in this position.

To return to normal valve function, push button in, twist clockwise 180° and release. Override will be detented in this position.

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.
- · Manual override option.
- Optional waterproof E-Coils rated up to IP69K.
- Unitized, molded coil design.
- Industry common cavity.

RATINGS

Operating Pressure: 207 bar (3000 psi) Proof Pressure: 350 bar (5075 psi)

Flow: Inlet at port 2: 18.9 lpm (5 gpm) max; Inlet at port 1: 22.7 lpm (6 gpm) max. **Internal Leakage:** 82 cm³/minute (5 in³/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

Response Time: First indication of change of state with 100% voltage supplied at

80% of nominal flow rating: Energized: 60 ms; De-energized: 60 ms 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: 1.7 amps at 12 Vdc; 0.85 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: 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

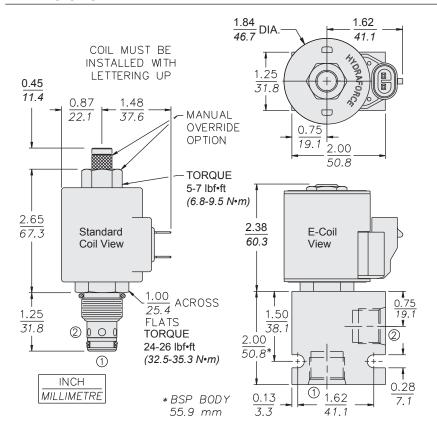
Coil Nut: Part No. 7004400;

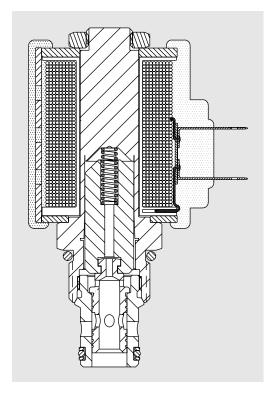
For E-coils manufactured prior to 1-1-04, see page 3.400.1 for coil nut info.



SV10-25

DIMENSIONS





MATERIALS

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

Standard Ported Body: Weight: 0.16 kg (0.35 lb); Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.010.1.

Standard Coil: Weight: 0.27 kg (0.60 lb); Unitized thermoplastic encapsulated, Class H high temperature magnetwire. See page 3.200.1.

E-Coil: Weight: 0.41 kg (0.9 lb); Fully encapsulated with rugged external metal shell. Rated up to IP69K with integral connectors. Note: See page 3.400.1 for all

E-Coil retrofit applications.

TO ORDER

