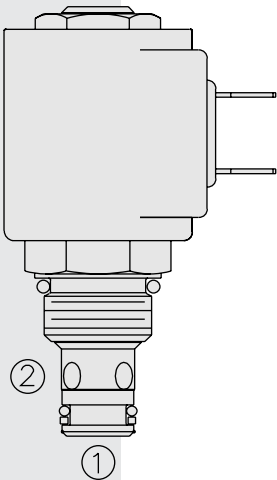
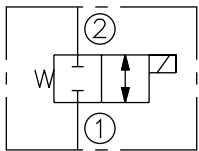


SV08-24 Spool, 2-Way, Normally Closed

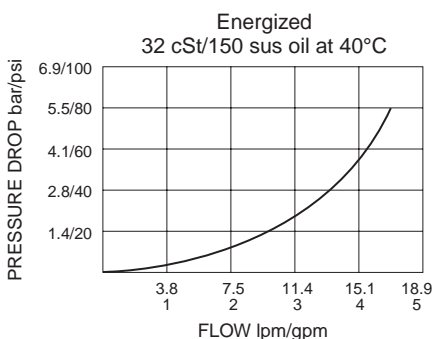


SYMBOLS

USASI/ISO:



PERFORMANCE (Cartridge Only)



DESCRIPTION

A solenoid-operated, two-way, normally closed, direct-acting, spool-type, screw-in hydraulic cartridge valve, designed to operate as a bidirectional blocking valve in low flow circuits.

OPERATION

When de-energized, the **SV08-24** blocks flow in both directions.

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

Operation of Manual Override Feature: 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.
- Compact size.

RATINGS

Operating Pressure: 207 bar (3000 psi)

Flow: 17 lpm (4.5 gpm) max.

Internal Leakage: 82 cc/minute (5 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: 1.2 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: VC08-2; See page 9.108.1

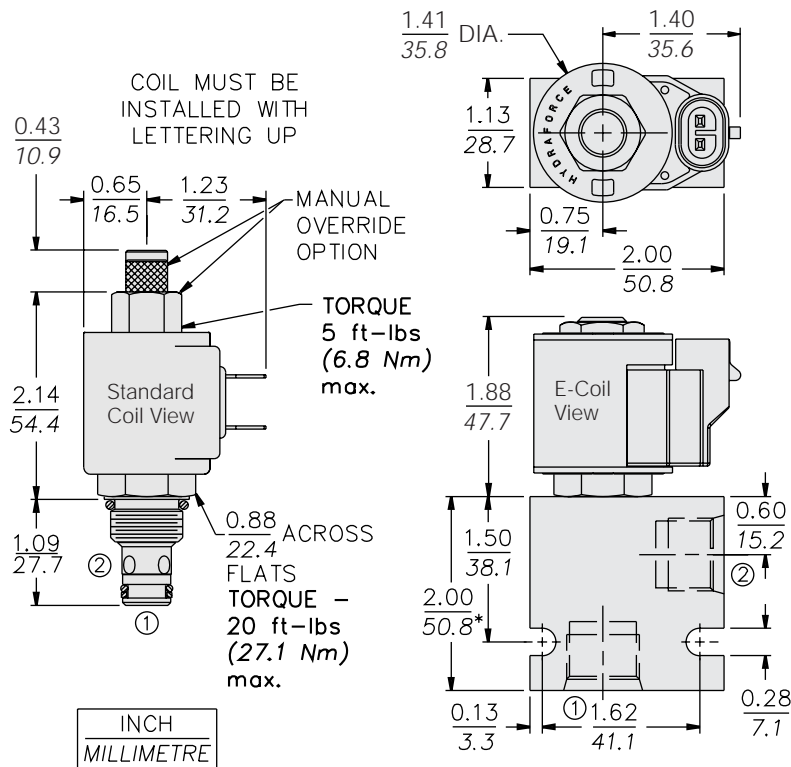
Cavity Tool: CT08-2XX; See page 8.600.1

Seal Kit: SK08-2X-M; See page 8.650.1

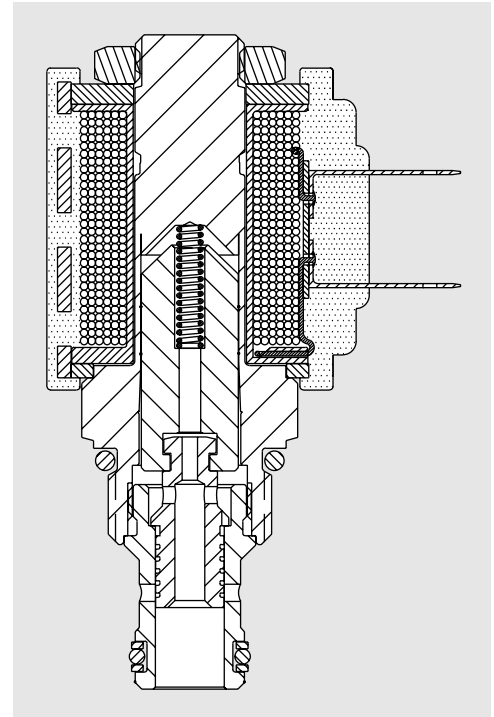
Coil Nut: Part No. 7004400;

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

DIMENSIONS



* BSP BODY - 55.9 mm



MATERIALS

Cartridge: Weight: 0.09 kg. (0.20 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N O-rings and back-ups standard.

Standard Ported Body: Weight: 0.16 kg. (0.35 lbs.); Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi); Ductile iron bodies available; dimensions may differ. See page 8.008.1

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

E-Coil: Weight: 0.14 kg. (0.3 lbs.); Perfect wound, 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

SV08-24

Option

None (Blank)

152 μ Screen on Port ② S

Manual Override M

Porting

Cartridge Only 0

SAE 4 4T

SAE 6 6T

1/4 in. BSP* 2B

3/8 in. BSP* 3B

1/2 in. BSP* 4B

*BSP Body; U.K. Mfr. Only

Seals

Buna N (Std.) N

Fluorocarbon V

Voltage

Std. Coil

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

**Includes Std. Coil Nut

† DS, DW or DL terminations only.

E-Coil

10 10 VDC

12 12 VDC

20 20 VDC

24 24 VDC

Termination (VDC) Std. Coil

DS Dual Spades

DG DIN 43650

DL Leadwires (2)

DL/W Leads w/Weatherpak® Connectors

DR Deutsch DT04-2P

Termination (VAC) Std. Coil

AG DIN 43650

AP 1/2 in. Conduit

Termination (VDC) E-Coil

ER Deutsch DT04-2P (IP69K Rated)

EY Metri-Pack® 150 (IP69K Rated)

Coils with internal diode are available. Consult factory.