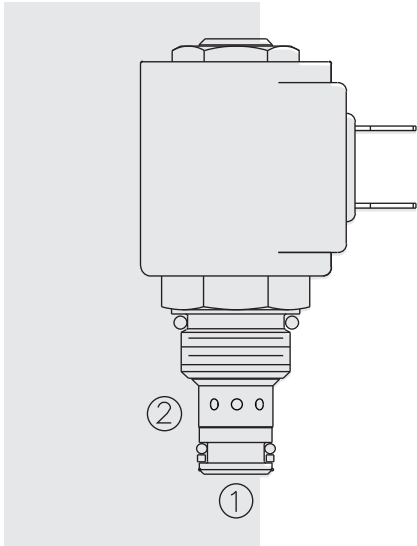
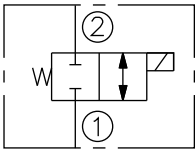


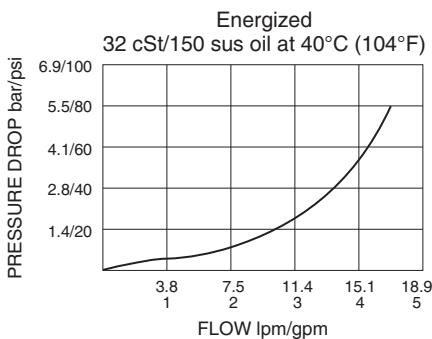
## SV08-24 Solenoid, 2-Way, Bi-Directional



### ISO SYMBOL



### 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

- Bidirectional flow path.
- Manual override option.
- Screen option.
- 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.
- Optional waterproof E-Coils rated up to IP69K.
- Unitized, molded coil design.
- Industry common cavity.
- Compact size.

### RATINGS

**Operating Pressure:** 207 bar (3000 psi)

**Proof Pressure:** 241 bar (3500 psi)

**Burst Pressure:** 620 bar (9000 psi)

**Flow Rating:** 17 lpm (4.5 gpm) max.

**Internal Leakage:** 82 ml/minute (5 cu. in./minute) max. at 207 bar (3000 psi) from Port 2 to 1

**Temperature:** -40 to 100°C (-40 to 212°F) with standard Buna seals;  
-26 to 204°C (-15 to 400°F) with fluorocarbon seals;  
-54 to 107°C (-65 to 225°F) with polyurethane 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:** 10.2 VDC (12-volt coil)

**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

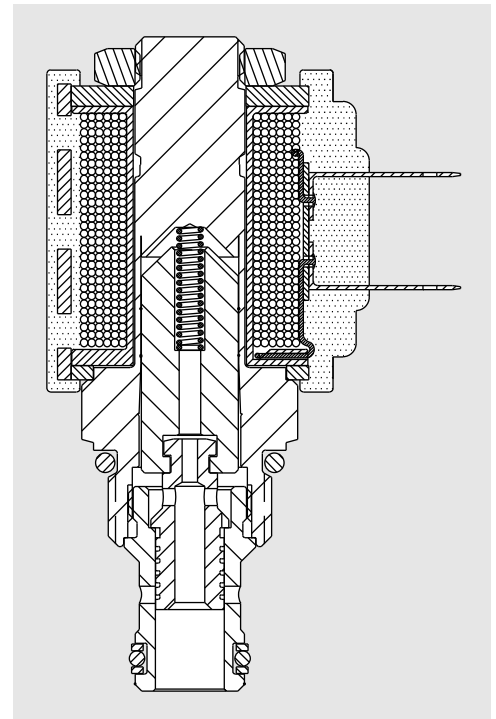
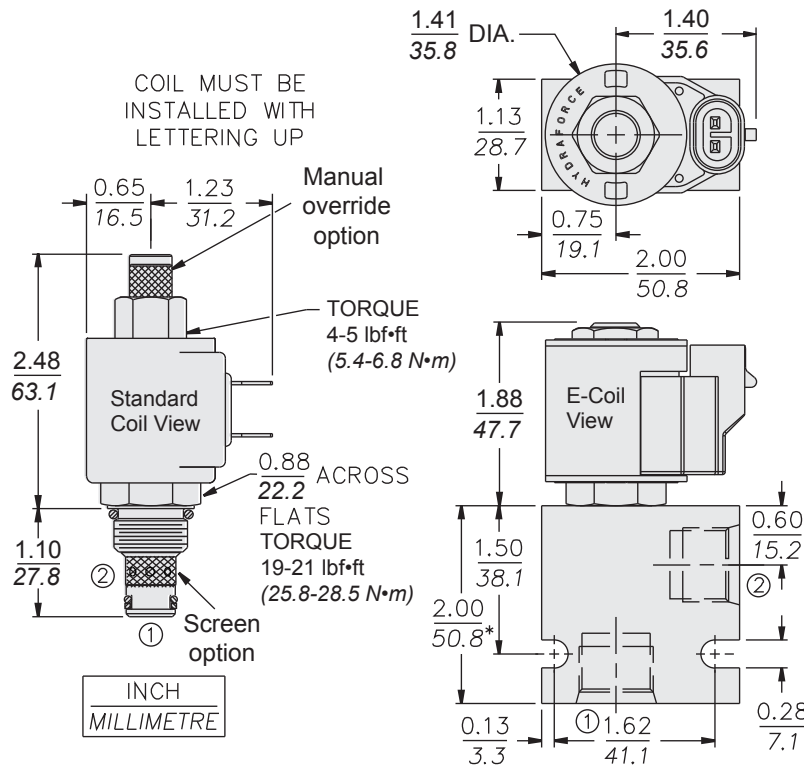
**Seal Kit:** SK08-2X-M; See page 8.650.1

**Coil Nut:** Part No. 7004400;

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

**SV08-24**

**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 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**

<b>SV08-24</b>		<b>Override Option</b>		<b>Voltage</b>		<b>Termination (VDC) Std. Coil</b>	
		None (Blank)		<b>0</b>	Less Coil**	<b>DS</b>	Dual Spades
		Manual Override <b>M</b>		<b>10</b>	10 VDC†	<b>DG</b>	DIN 43650
		<b>Screen Option</b>		<b>12</b>	12 VDC	<b>DL</b>	Leadwires (2)
		None (Blank)		<b>24</b>	24 VDC	<b>DL/W</b>	Leads w/Weatherpak® Connectors
		152 µm Screen on Port 2	<b>S</b>	<b>36</b>	36 VDC	<b>DR</b>	Deutsch DT04-2P
		<b>Porting</b>		<b>48</b>	48 VDC		
		Cartridge Only	<b>0</b>	<b>24</b>	24 VAC		
		SAE 8	<b>8T</b>	<b>115</b>	115 VAC		
		3/8 in. BSP*	<b>3B</b>	<b>230</b>	230 VAC	<b>AG</b>	DIN 43650
		*BSP Body; U.K. Mfr. Only				<b>AP</b>	1/2 in. Conduit
		<b>Seals</b>					<b>Termination (VDC) E-Coil</b>
		Buna N (Std.)	<b>N</b>			<b>ER</b>	Deutsch DT04-2P (IP69K Rated)
		Fluorocarbon	<b>V</b>			<b>EY</b>	Metri-Pack® 150 (IP69K Rated)
		Polyurethane	<b>P</b>				
				<b>E-Coil</b>			
				<b>10</b>	10 VDC		
				<b>12</b>	12 VDC		
				<b>20</b>	20 VDC		
				<b>24</b>	24 VDC		

\*\*Includes Std. Coil Nut  
† DS, DW or DL terminations only.

Coils with internal diode are available. Consult factory.