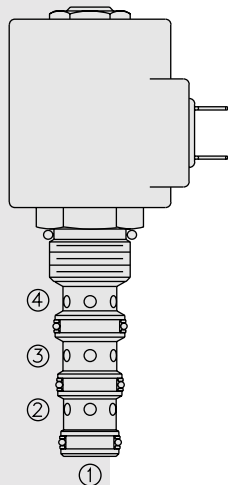


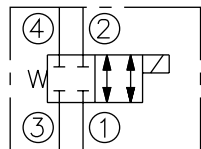
SOLENOID VALVES

SV10-41 Spool, 4-Way, 2-Position

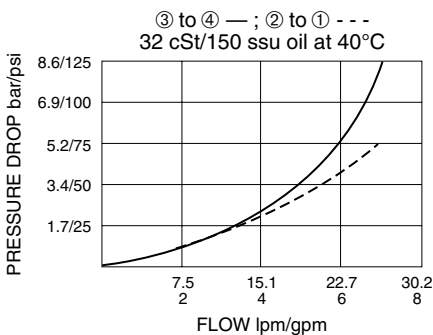


SYMBOLS

USAS/ISO:



PERFORMANCE (Cartridge Only)



DESCRIPTION

A solenoid-operated, 4-way, 2-position, direct-acting, spool-type, screw-in hydraulic cartridge valve.

OPERATION

When de-energized, the **SV10-41** blocks flow to all ports.

When energized, the spool shifts to open flow between ③ and ④, as well as from ② to ①.

Operation of Manual Override Option: 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.
- Efficient wet-armature construction.
- All ports may be fully pressurized.
- 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: See Performance Chart

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

Response Time: First indication of change of state with 100% voltage supplied at 80% of nominal flow rating: Energized: 45 msec.; De-energized: 50 msec.

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: 2.0 amps at 12 VDC; 1.0 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 ssu)

Installation: No restrictions; See page 9.020.1

Cavity: VC10-4; See page 9.110.1

Cavity Tool: CT10-4XX; See page 8.600.1

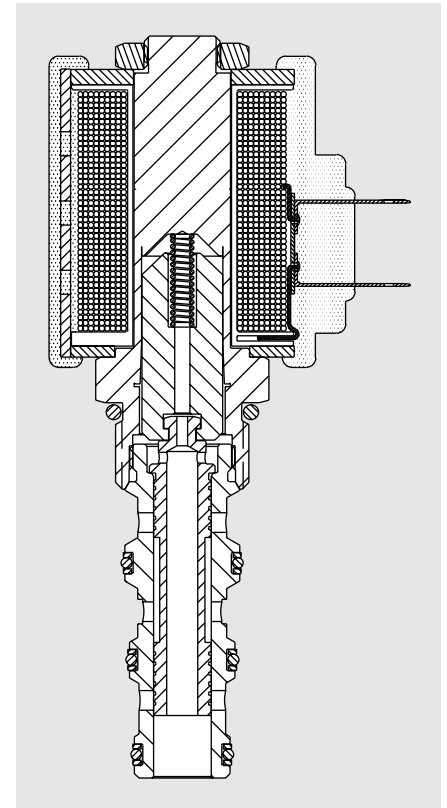
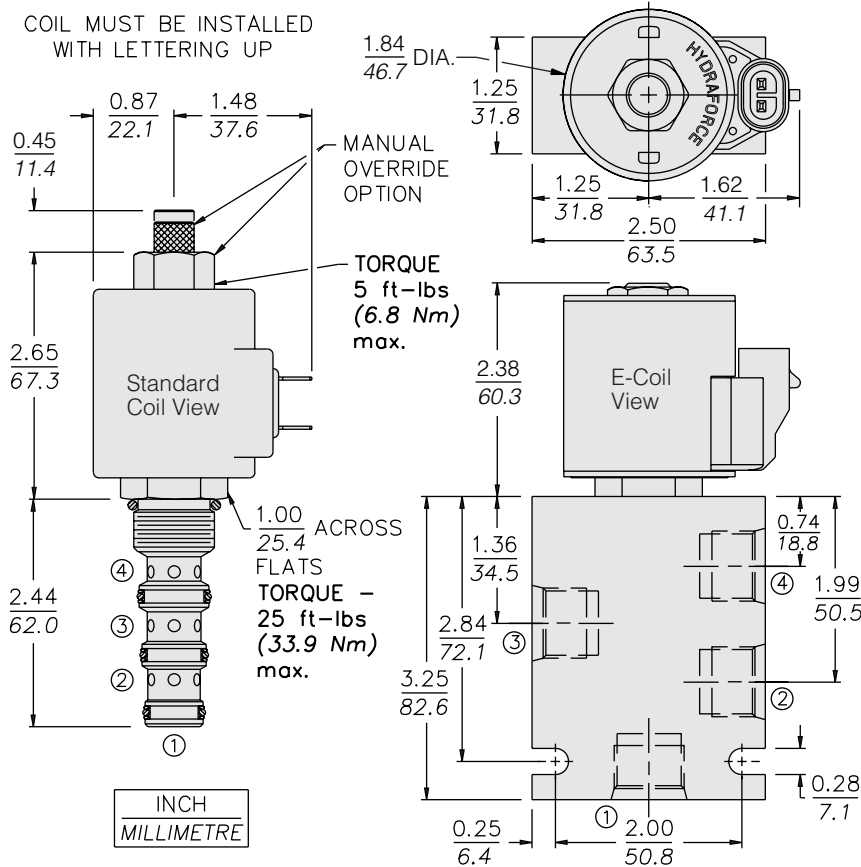
Seal Kit: SK10-4X-MMM; See page 8.650.1

Coil Nut: Part No. 7004400;

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

SV10-41

DIMENSIONS



MATERIALS

Cartridge: Weight: 0.20 kg. (0.45 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-up standard.

Standard Ported Body: Weight: 0.36 kg. (0.80 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: 0.27 kg. (0.60 lbs.); Unitized thermoplastic encapsulated, Class H high temperature magnetwire; See page 3.200.1.

E-Coil: Weight: 0.41 kg. (0.9 lbs.); 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

SV10-41		-	-	-	-	-
Option						
None (Blank)						
Manual Override	M					
Manual Override	Y					
Manual Override	J					
For Manual Override options see page 1.001.1						
Porting						
Cartridge Only	0					
SAE 6	6T					
SAE 8	8T					
1/4 in. BSP*	2B					
3/8 in. BSP*	3B					
*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.				