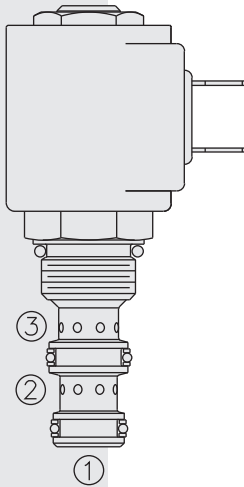


SV08-35 Spool, 3-Way



DESCRIPTION

A solenoid-operated, 2-position, 3-port, direct-acting, spool-type, screw-in hydraulic directional valve.

OPERATION

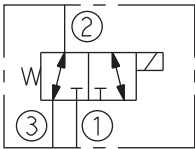
When de-energized, the **SV08-35** blocks flow at ①, while allowing flow from ② to ③. When energized, the spool shifts to provide flow from ② to ①, while blocking port ③. While port ① may be fully pressurized, it is not intended to be used as the inlet.

FEATURES

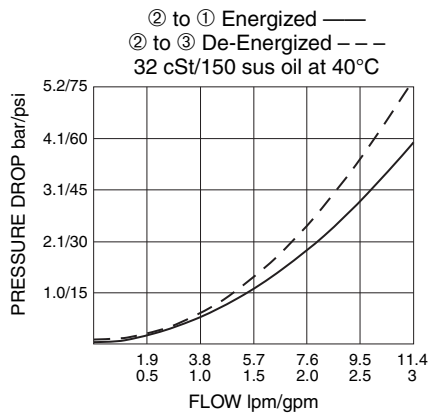
- Continuous-duty rated solenoid.
- Hardened precision spool and cage for long life.
- Optional coil voltages and terminations.
- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- All ports may be fully pressurized.
- Optional waterproof E-Coils rated up to IP69K.
- Unitized, molded coil design.
- Compact, industry-common size.

SYMBOLS

USAS/ISO:



PERFORMANCE (Cartridge Only)



RATINGS

Operating Pressure: 207 bar (3000 psi)

Proof Pressure: 241 bar (3500 psi)

Flow: Up to 11.4 lpm (3 gpm); See Performance Chart

Internal Leakage: 98 cc/minute (6 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 A at 12 Vdc;
0.13 A at 115 Vac (full wave rectified).

E-Coil: 1.4 A at 12 Vdc; 0.7 A 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

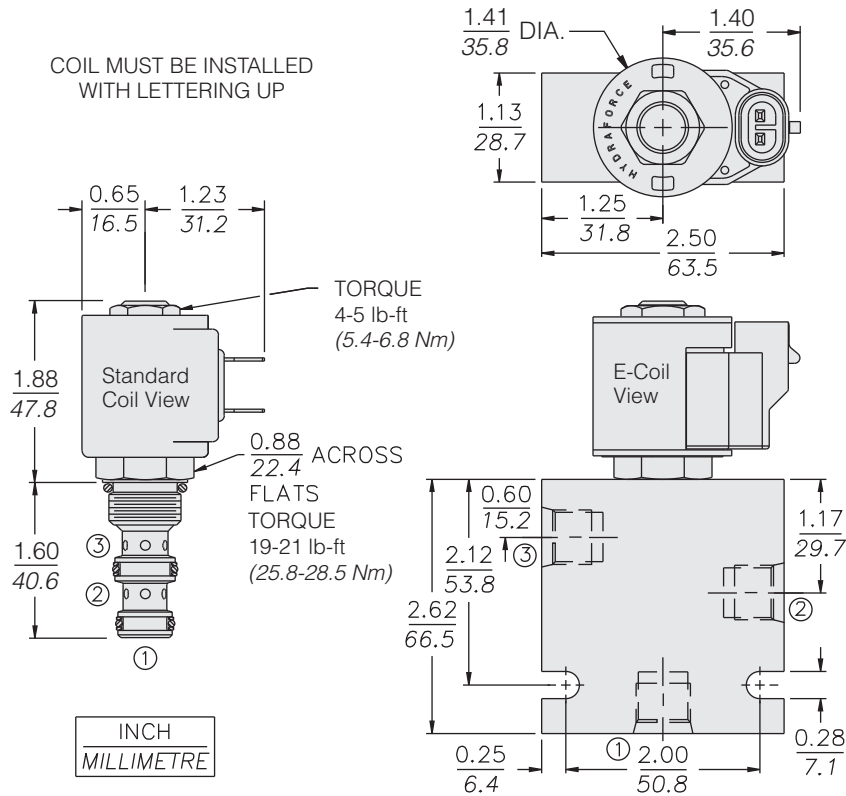
Cavity: VC08-3; See page 9.108.1

Cavity Tool: CT08-3XX; See page 8.600.1

Seal Kit: SK08-3X-MM; See page 8.650.1

Coil Nut: Part No. 7004400

DIMENSIONS



MATERIALS

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

Standard Ported Body: Weight: 0.27 kg (0.60 lb); 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 lb); Unitized thermoplastic encapsulated, Class H high temperature magnet wire. See page 3.200.1.

E-Coil: Weight: 0.14 kg (0.3 lb); Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with integral connectors.

See page 3.400.1 for all E-Coil retrofit applications.

TO ORDER

SV08-35		Option		Voltage		Termination (Vdc)	
		None	(Blank)	Std. Coil		Std. Coil	
				0	Less Coil**	DS	Dual Spades
				10	10 Vdc [†]	DG	DIN 43650
				12	12 Vdc	DL	Leadwires (2)
				24	24 Vdc	DL/W	Leads w/Weatherpak [®] Connectors
				36	36 Vdc	DR	Deutsch DT04-2P
				48	48 Vdc	Termination (Vac)	
				24	24 Vac	Std. Coil	
				115	115 Vac	AG	DIN 43650
				230	230 Vac	AP	1/2 in. Conduit
				**Includes Std. Coil Nut		Termination (Vdc)	
				[†] DS, DW or DL terminations only.		E-Coil	
				E-Coil		ER	Deutsch DT04-2P (IP69K Rated)
				10	10 Vdc	EY	Metri-Pack [®] 150 (IP69K Rated)
				12	12 Vdc	Coils with internal diode are available. Consult factory.	
				20	20 Vdc		
				24	24 Vdc		
				Seals			
		Buna N (Std.)	N				
		Fluorocarbon	V				
		Polyurethane	P				