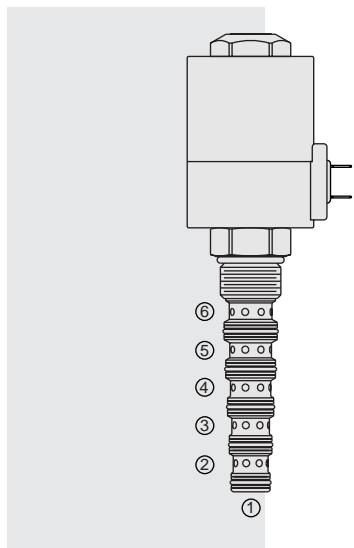


## SV12-60 Spool, 2-Position, 6-Way



### DESCRIPTION

A solenoid-operated, 2-position, 6-way, direct-acting spool-type, screw-in hydraulic cartridge valve. It is intended for use as a selector valve in selector or series/parallel drive circuits.

### OPERATION

When de-energized, the **SV12-60** allows bi-directional flow between ⑤ and ⑥, and between ① and ②, while blocking flow at ③ and ④. When energized, the spool shifts to allow bidirectional flow between ④ and ⑤ and between ③ and ②, while blocking flow at ① and ⑥.

### FEATURES

- Heavy-duty water resistant E-Coils rated up to IP69K.
- Hardened spool and cage for long life.
- Optional coil voltages and terminations.
- All ports may be fully pressurized.
- External metal-shell coil design.

### RATINGS

**Operating Pressure:** 240 bar (3500 psi) max.

**Flow:** Up to 45.4 lpm (12 gpm); See Performance Chart

**Leakage:** 295 cc/minute (18 cu. in./minute) at 240 bar (3500 psi)

**Temperature:** -40 to 120°C with Buna N seals

**Coil Duty Rating:** See Chart

**Response Time:** Pull-In: 135 msec; Drop-Out: 30 msec

**Initial Coil Current Draw at 20°C:** 2.8 amps at 12 VDC

**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:** VC12-6; See page 9.112.1

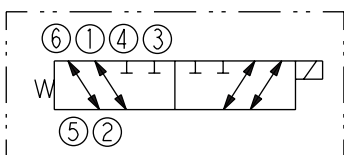
**Cavity Tool:** CT12-6XX; See page 8.600.1

**Seal Kit:** SK12-6X-MMMMM; See page 8.650.1

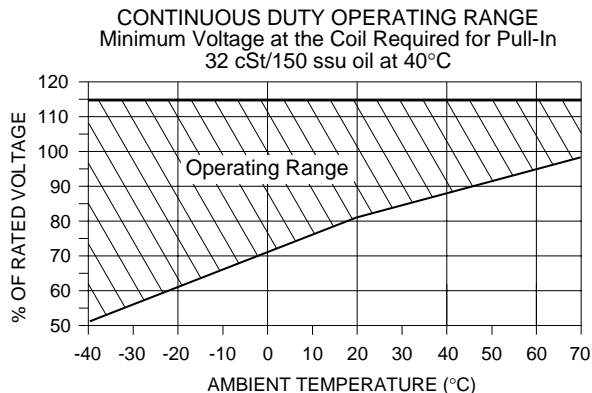
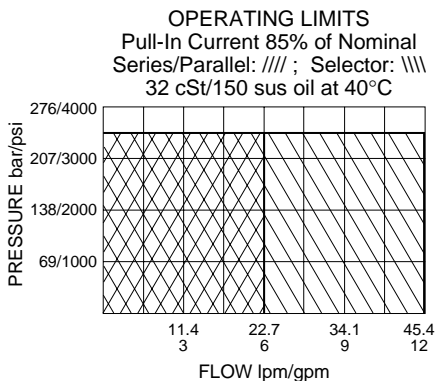
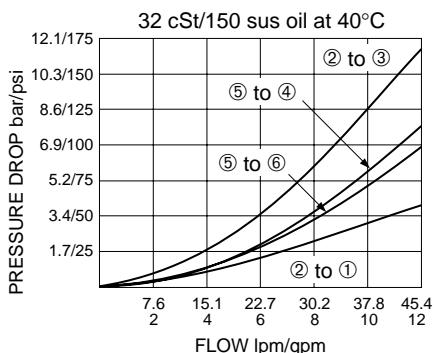
**E-Coil Nut:** Part No. 7085180

### SYMBOLS

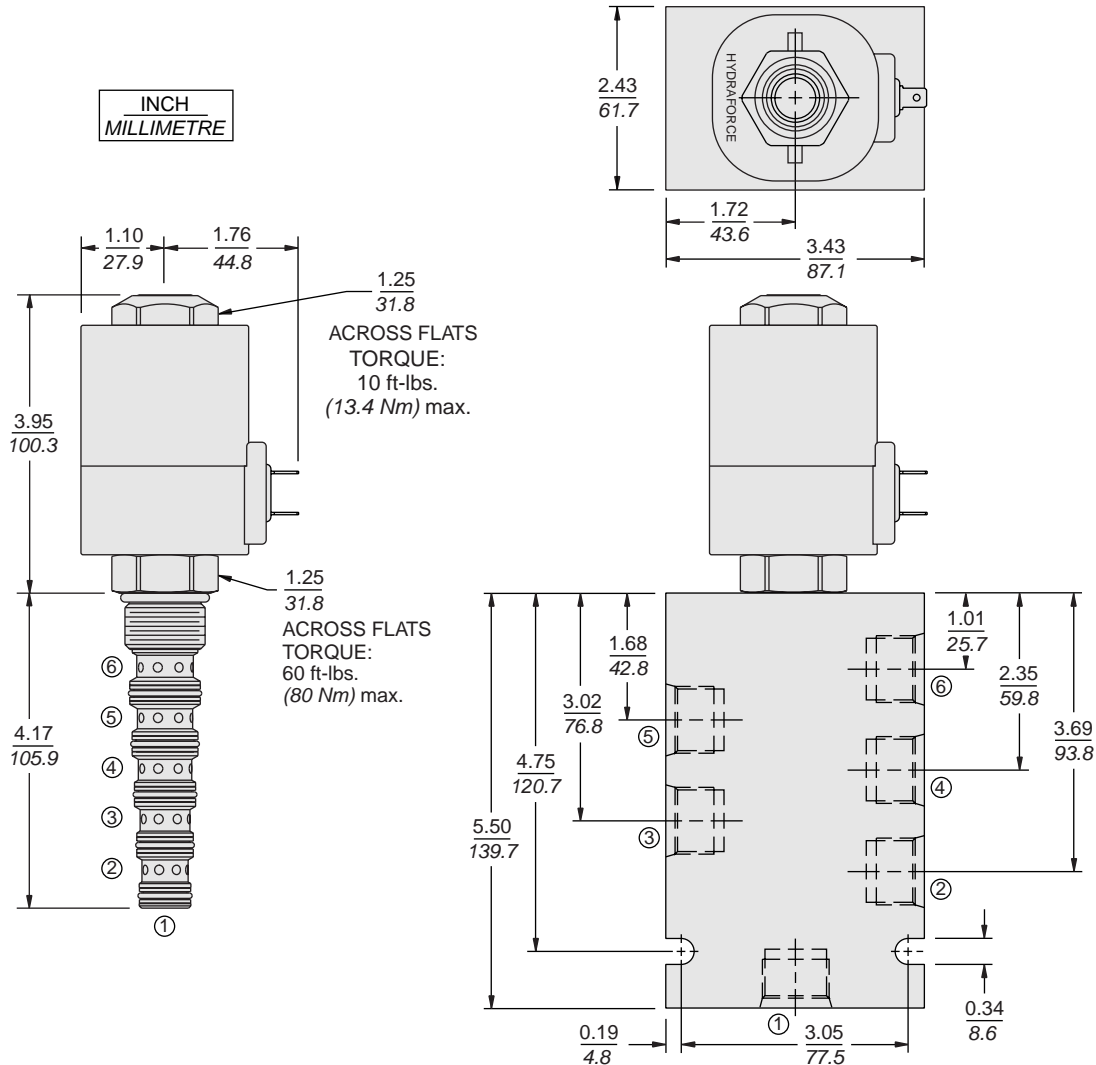
#### USAS/ISO:



### PERFORMANCE (Cartridge Only)



**DIMENSIONS**



**MATERIALS**

**Cartridge:** Weight: 0.54 kg. (1.20 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N O-rings and TFE back-ups standard.

**Standard Ported Body:** Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi); See page 8.012.1.

**E-Coil:** Weight: 1.36 kg. (3.0 lbs.); Fully encapsulated with rugged external metal shell; Rated up to IP69K with integral connectors; See Page 3.400.1.

**TO ORDER**

**SV12-60**

<b>Porting</b>					
Cartridge Only	0				
SAE 6	6T				
SAE 8	8T				
SAE 10	10T				
<b>Seals</b>					
Buna N (Std.)	N				
Fluorocarbon	V				
		<b>Voltage</b>			
		0	Less Coil		
		12	12 VDC		
		24	24 VDC		
		36	36 VDC		
		48	48 VDC		
				<b>Terminations (VDC)</b>	
				EL	Leadwires (2), IP65 Rated
				ES	Dual Spades, IP65 Rated
				EG	DIN 43650, IP65 Rated
				EW	Leads w/Weather-Pack® Connector, IP65 Rated
				EY	Metri-Pack® 150 Connector, IP69K Rated

Coils with internal diode are available. Consult factory.

Other coil voltages may be available for OEM applications. Consult factory.