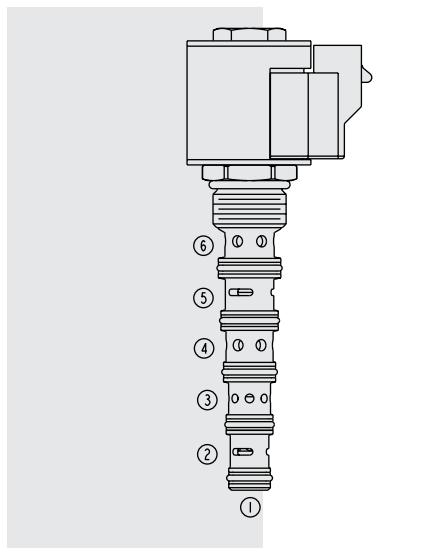


SV80-61 Spool, 6-Way, 2-Position, Selector Valve



DESCRIPTION

A solenoid-operated, two-position, six-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 **SV80-61** blocks flow to ⑤ and ⑥, and allows flow between four and ③, and between ① and ②. When energized, the spool shifts to block flow to ports ② and ③, while allowing flow between ④ and ⑤, and between ① and ⑥.

Note: In circuits where this valve is used as a selector valve to direct flow between two cylinders of unequal area ratios, the cylinder head sides should be connected to ports ③ and ⑤, and the rod sides to ports ② and ⑥.

FEATURES

- Continuous-duty rated solenoid.
- Hardened parts for long life.
- Optional coil voltages and terminations.
- Optional waterproof E-Coils rated up to IP69K.
- Cartridges are voltage interchangeable.

RATINGS

Operating Pressure: 207 bar (3000 psi) with standard Buna N seals

Flow: 7.6 lpm (2 gpm) max. See performance chart

Internal Leakage: 164 ml/minute (10 cu. in./minute) at 207 bar (3000 psi)

Temperature: -40 to 120°C with standard Buna seals

Filtration: Recommend ISO 4406 16/13; 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: VC10-6; See page 9.110.1

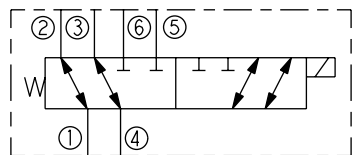
Cavity Tool: CT10-6XX; See page 8.600.1

Seal Kit: SK80-6X-MMMMM; See page 8.650.1

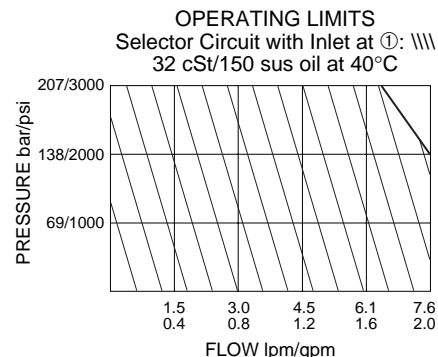
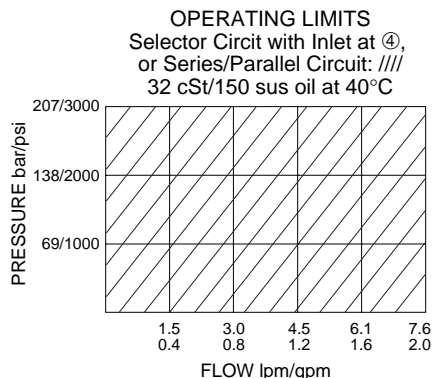
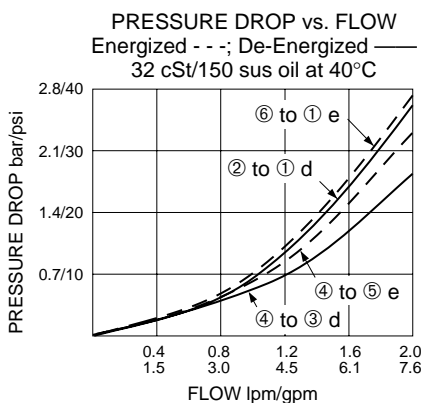
Coil Nut: Part No. 7004400

SYMBOLS

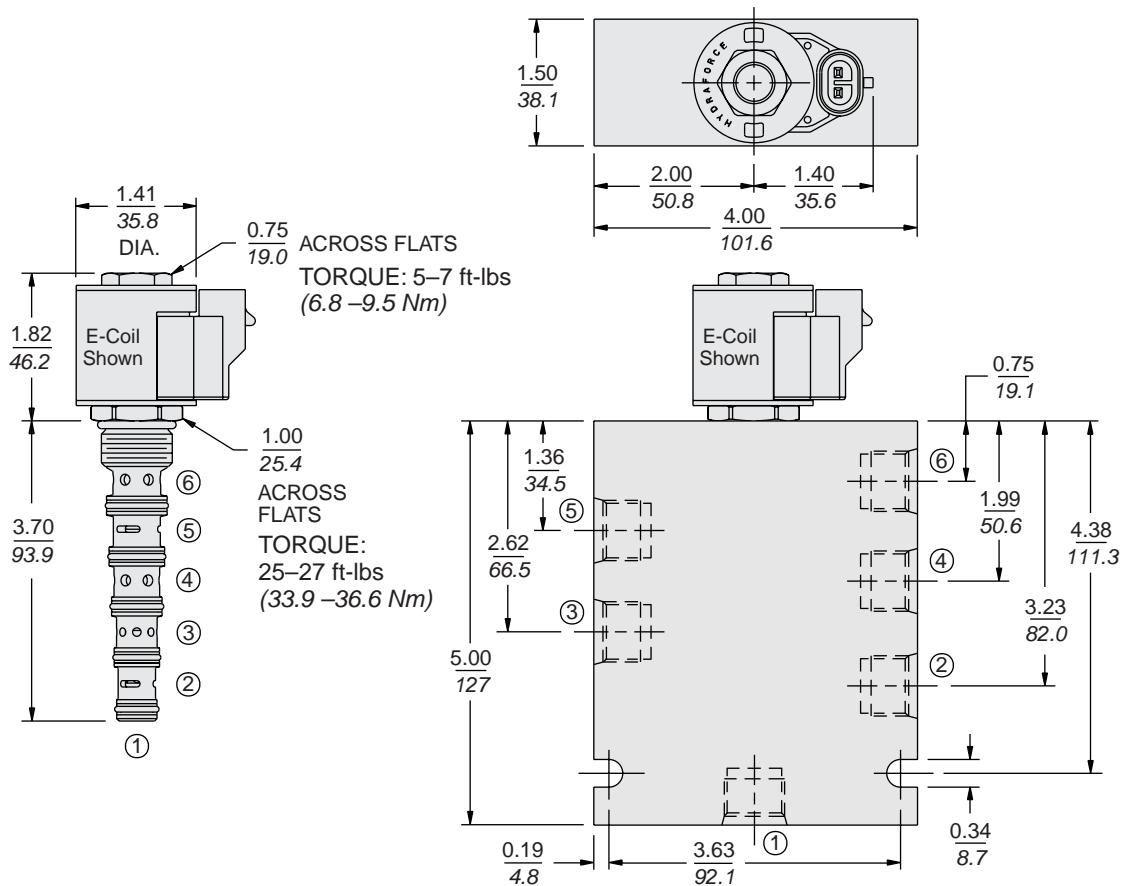
USASI/ISO:



PERFORMANCE (Cartridge Only)



DIMENSIONS



MATERIALS

Cartridge: Weight: 0.36 kg. (0.80 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and back-ups standard.

Standard Ported Body: Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). See page 8.010.1.

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. See page 3.400.1 for all E-Coil retrofit applications.

TO ORDER

| | | | |
|--------------------------|-----------------------------------|-------------------------------------|--|
| SV80-61 - - - - - | | | |
| 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 | | |
| Porting | 24 24 VAC | Termination (VAC) | |
| Cartridge Only 0 | 115 115 VAC | Std. Coil | |
| SAE 6 6T | 230 230 VAC | AG DIN 43650 | |
| SAE 8 8T | | AP 1/2 in. Conduit | |
| | **Includes Std. Coil Nut | Termination (VDC) | |
| | † DS, DW or DL terminations only. | E-Coil | |
| Seals | E-Coil | ER Deutsch DT04-2P (IP69K Rated) | |
| Buna N (Std.) N | 10 10 VDC | EY Metri-Pack® 150 (IP69K Rated) | |
| Fluorocarbon V | 12 12 VDC | | |
| | 20 20 VDC | | |
| | 24 24 VDC | | |

Coils with internal diode are available. Consult factory.