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 ➄ and ➅, and allows flow between four and ➃, and between ➀ and ➂. When energized, the spool shifts to block flow to ports ➁ and ➂, while allowing flow between ➄ and ➅, and between ➀ and ➅.

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 ➃ and ➅, and the rod sides to ports ➁ and ➂.

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

PERFORMANCE (Cartridge Only)
DIMENSIONS

MATERIALS

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


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

SV80-61

Option
None (Blank)

Porting
Cartridge Only 0 SAE 6 6T

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

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

Seals
Buna N (Std.) N
Fluorocarbon V

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

Coils with internal diode are available. Consult factory.