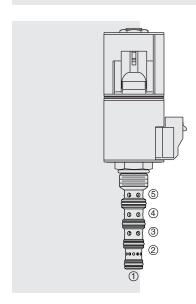
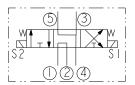
# SV10-59D Spool, 5-Way, 3-Position, Motor Spool



### ISO SYMBOL



### **DESCRIPTION**

A solenoid-operated, five-way, three-position, direct-acting, spool-type, screw-in hydraulic cartridge valve with a "power beyond" port.

### **OPERATION**

When de-energized, the **SV10-59D** allows flow between ports 3, 4, and 5 and with a "power beyond" between ports 1 and 2. When coil #1 is energized, flow is allowed from 1 to 3 and from 5 to 4 with "power beyond" blocked. When coil #2 is energized, flow is allowed from 1 to 5 and from 3 to 4 with "power beyond" blocked.

#### **FEATURES**

- "Power Beyond" feature allows multiple functions, less hose, fewer drillings.
- · Motor spool.
- · Continuous-duty rated solenoid.
- Hardened precision spool and cage 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) **Flow Rating:** 15.1 lpm (4 gpm) maximum

Internal Leakage: 328 ml/minute (20 cu.in./minute) max. at 207 bar (3000 psi) from port 1 to 3 with ports 2, 4 and 5 blocked, valve in neutral and from port 1 to ports 2 and 4 combined with ports 5 and 3 blocked, valve energized S1 then S2.

**Temperature:** -40 to 100 °C (-40 to 212 °F) with standard Buna seals; -26 to 204 °C (-15 to 400 °F) with viton seals; -54 to 107 °C (-65 to 225 °F) with polyurethane seals

Coil Duty Rating: Continuous from 85% to 115% of nominal voltage

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: VC10-5; See page 9.110.1

Cavity Tool: CT10-5XX; See page 8.600.1 Seal Kit: SK10-5X-MMMM; See page 8.650.1

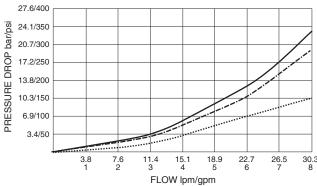
Coil Nut: Part No. 7004400

Coil Spacer: Std. D-Coil Spacer Part No. 7009280; E-Coil Spacer Part No. 4539700; If cartridge is ordered "Less Coil," D-Coil spacer will be provided unless an E is

specified in the Coil Termination To Order section.

#### PERFORMANCE (Cartridge Only)

Pressure Drop vs. Flow
32 cSt/150 sus oil at 40°C
— 1-3 Coil S1, Energized; ---- 1-5 Coil S2, Energized, 1-2 Neutral
---- 3-4 Coil S2, Energized, 5-4 Coil S1, Energized

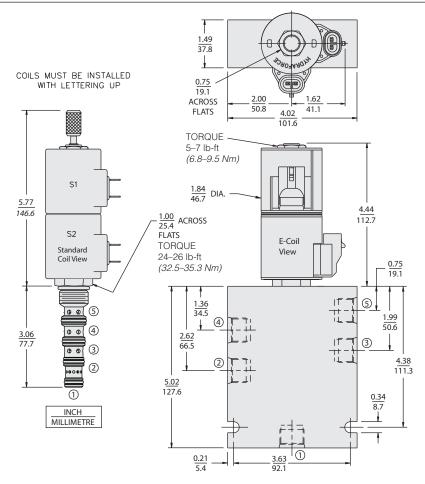




## with Power Beyond Port

### SV10-59D

### **DIMENSIONS**



### **MATERIALS**

Cartridge: Weight: 0.29 kg (0.65 lb); Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N O-rings and back-ups standard.

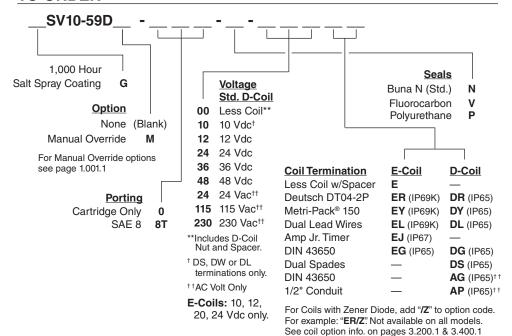
### **Standard Ported Body:**

Weight: 0.41 kg (0.85 lb); Anodized high-strength aluminum alloy, rated to 207 bar (3000 psi); Ductile iron bodies available; dimensions may differ. See page 8.010.1.

Standard Coil: Weight each: 0.27 kg (0.60 lb); Unitized thermoplastic encapsulated, high temperature magnet wire. See page 3.200.1

E-Coil: Weight: 0.41 kg (0.9 lb); Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with integral connectors. See page 3.400.1

### TO ORDER



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