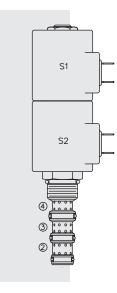
## SV10-47A Spool, 4-Way, 3-Position, Tandem Center



#### **ISO SYMBOL**

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¦ M				<b>↓</b> ₩
\$2 	3		0	SI

#### DESCRIPTION

A solenoid-operated, 4-way, 3-position, direct-acting, spool-type, tandem center, screw-in hydraulic cartridge valve.

#### **OPERATION**

When de-energized, the **SV10-47A** blocks cylinder ports, while allowing flow from 3 to 1. When coil #1 is energized, flow is allowed from 3 to 2, and from 4 to 1. When coil #2 is energized, flow is allowed from 3 to 4, and from 2 to 1.

In circuits where work port flows are unequal due to cylinder ratios, the higher return flow should be directed to port 2. **NOTE: While 1 may be fully pressurized, it is not intended for use as the valve's inlet.** 

**Operaton of Manual Override Option:** To override, push the knurled button to activate the coil #2 (S2) function, or pull the knob to activate the coil #1 (S1) function.

#### FEATURES

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

#### RATINGS

**Operating Pressure:** 250 bar (3625 psi); **Proof Pressure:** 344 bar (5000 psi) **Burst Pressure:** 779 bar (11,300 psi)

Flow: 19 lpm (5 gpm) max.

Internal Leakage: 328 ml/minute (20 cu. in./minute) max. at 207 bar (3000 psi)

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

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

**Response Time:** First indication of change of state with 85% voltage supplied at 100% of nominal flow rating: Energized: 100 ms; De-energized: 50 ms

Initial Coil Current Draw at 20 °C: Standard Coil: 1.67 A at 12 Vdc;

0.18 A at 115 Vac (full wave rectified).

E-Coil: 1.7 A at 12 Vdc; 0.85 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

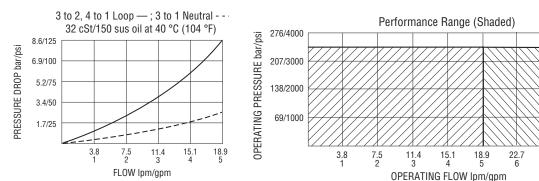
Installation: No restrictions; See page 9.020.1

**Cavity:** VC10-4; See page 9.110.1; **Cavity Tool:** CT10-4XX; See page 8.600.1 **Seal Kit:** SK10-4X-MMM; See page 8.650.1

Coil Nut: Part No. 7004400; Manual Override Coil Nut: Part No. 4528180

**Coil Spacer:** Std. D-Coil Spacer Part No. 7009286; 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.





NOTE:

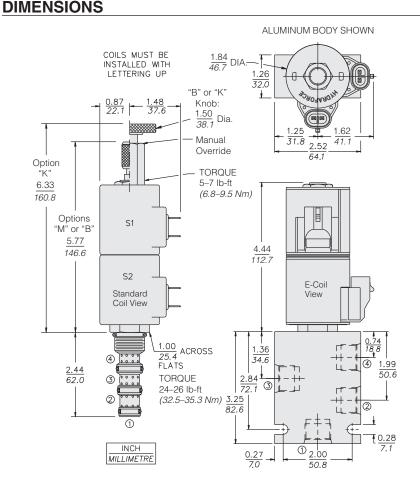
Consult factory if operating flow above 18.9 lpm (5 gpm) is with oil viscosity over 420 cSt and/or valve is operated continuously (100% duty cycle)

26.5

30.3



### SV10-47A



#### MATERIALS

ups standard.

**Standard Ported Body:** 

sions may differ.

magnet wire.

See page 3.200.1

metal shell; Rated up to

See page 8.010.1.

Anodized high-strength

aluminum alloy, rated to

Cartridge: Weight: 0.27 kg

(0.60 lb); Steel with hard-

plated exposed surfaces;

# **TO ORDER**

