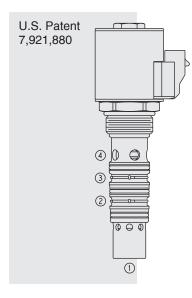
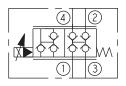
SPCL16-40 Poppet, 2-Way, Normally Closed



SYMBOL



DESCRIPTION

A solenoid-operated, 4-port, normally-closed, proportional, poppet-type, screw-in hydraulic cartridge valve for low-leakage blocking and load-holding applications.

OPERATION

When the **SPCL16-40** is energized, the poppet lifts to allow flow from port 4 to ports 1, 2, and 3. Flow at ports 2 and 3 is typical for load sensing applications and includes a check valve for isolation.

FEATURES

- Industry-common cavity.
- Efficient wet-armature construction.
- Optional waterproof E-Coils rated up to IP69K.
- Continuous-duty rated coils.Reduce manifold space claim.

RATINGS

Operating Pressure: Maximum: 250 bar (3625 psi); Minimum: 2.4 bar (35 psi) **Flow Rating:** up to 152 lpm (40 gpm); see performance charts

Internal Leakage: Ports 1 and 4: 5 drops/minute max. at 250 bar (3625 psi) Ports 2 and 3: 15 drops/minute max. at 250 bar (3625 psi)

Operating Temperature: -40° to 100°C (-40° to 212° F) with standard Buna N seals; -26° to 204°C (-15° to 400°F) with Fluorocarbon seals;

-54°C to 104°C (-65°F to 225°F) with Polyurethane seals

Valve Inductance: 173.3 mH at 1.2A (Max. Control Current)

Threshold Current: 0.40A to 0.60A

Hysteresis: Less than 10% of maximum flow at 1.2A (Max. Control Current)

Dither Frequency: 100 Hz recommended

Installation: No restrictions; See page 9.020.1; 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 **Cavity:** VC16-4SPCL; See page 9.116.1

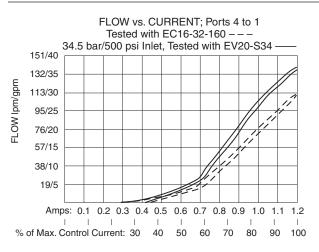
Cavity Tool: CT16-4SPCL; See page 8.600.1

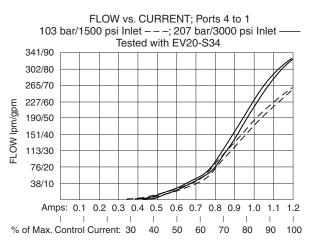
Seal Kit: SK16-4X-MM; See page 8.650.1

Coil Nut: Part No. 7004400

Recommended Electronic Controllers: See page 2.001.1 or our Electronics catalog.

PERFORMANCE (Cartridge Only)

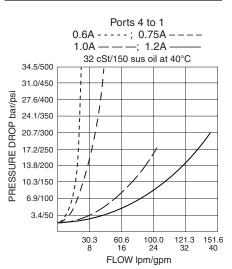


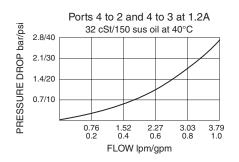


Performance info. continued on next page.

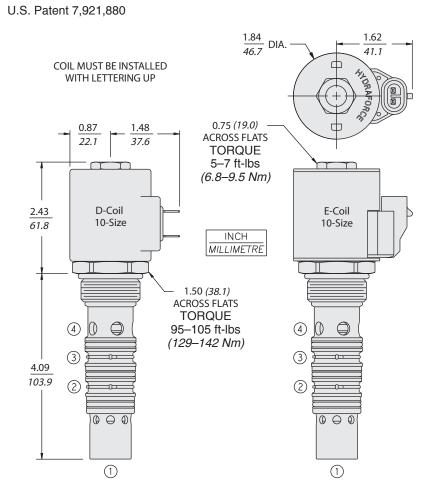








DIMENSIONS



MATERIALS

- Cartridge: Weight: 0.50 kg. (1.11 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-up standard.
- Standard D-Coil: Weight: 0.27 kg. (0.60 lbs.); Unitized thermoplastic encapsulated, Class H high temperature magnetwire. See page 3.200.1.
- E-Coil: Weight: 0.41 kg. (0.9 lbs.); Fully encapsulated with rugged external metal shell. Rated up to IP69K with integral connectors. Note: See page 3.400.1 for all E-Coil retrofit applications.

TO ORDER

