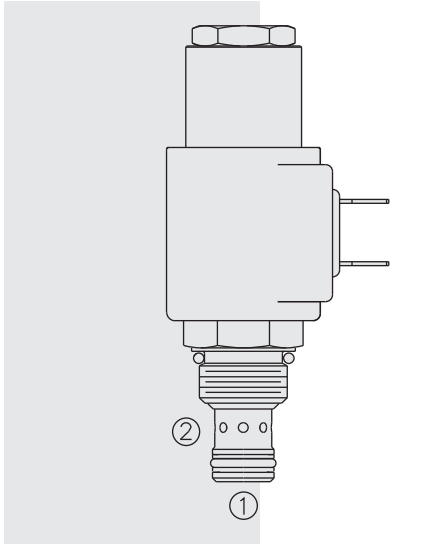


SP08-24 Spool, 2-Way, Normally Closed



DESCRIPTION

A proportional solenoid-operated, 2-way, spool-type, normally closed, screw-in hydraulic cartridge valve designed to operate as a bi-directional metering valve.

OPERATION

When de-energized, the **SP08-24** blocks flow in both directions. When the coil is partially energized, the valve begins to throttle flow. When fully energized, the valve opens to allow full, bi-directional flow.

Note: If low voltage is expected on the machine, 12 or 24 volt systems will require the use of 10 volt or 20 volt coils respectively. See “SP Valves and Coil Operating Parameters,” page 2.002.1.

FEATURES

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

RATINGS

Operating Pressure: 207 bar (3000 psi)

Operating Voltage: See Performance Chart

Flow: up to 11.4 lpm (3 gpm)

Max. Internal Leakage: 164 cc (10 cu. in.) per minute at 207 bar (3000 psi)

Maximum Control Current: 100 mA (12 VDC coil)

Minimum Control Current: 400 mA (12 VDC coil)

Threshold Current: 400 mA (12 VDC coil)

Hysteresis: < 10% full flow

Dither/PWM Frequency Range: 70 Hz min.

Operating Temperature: -40 to 100°C (-40° to 212°F) with standard Buna N seals
 -26 to 204°C (-15°F to 400°F) with Fluorocarbon seals
 -54 to 107°C (-65°F to 225°F) with Polyurethane seals

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

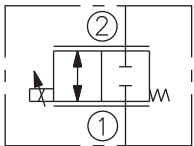
Installation: No Restrictions. See page 9.020.1

Cavity: VC08-2; See page 9.108.1; **Cavity Tool:** CT08-2XX; See page 8.600.1

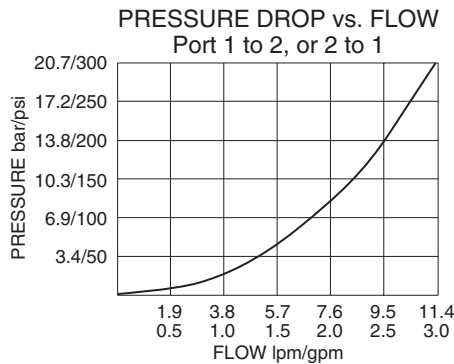
Seal Kit: SK08-2X-M; See page 8.650.1

Coil Nut: Part No. 7004400

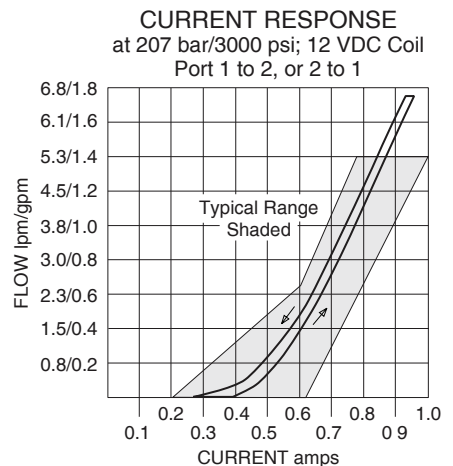
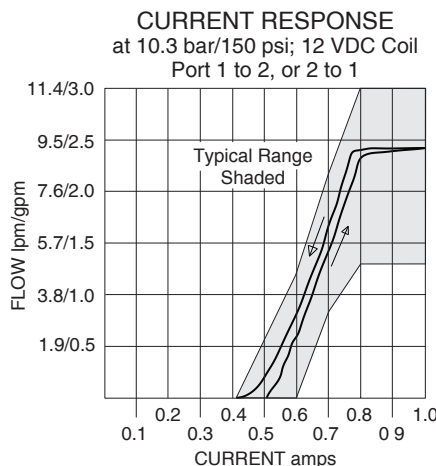
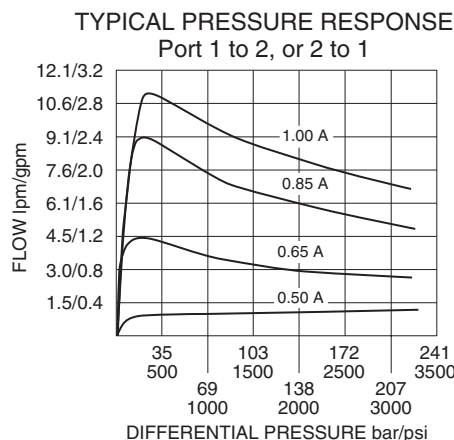
SYMBOL



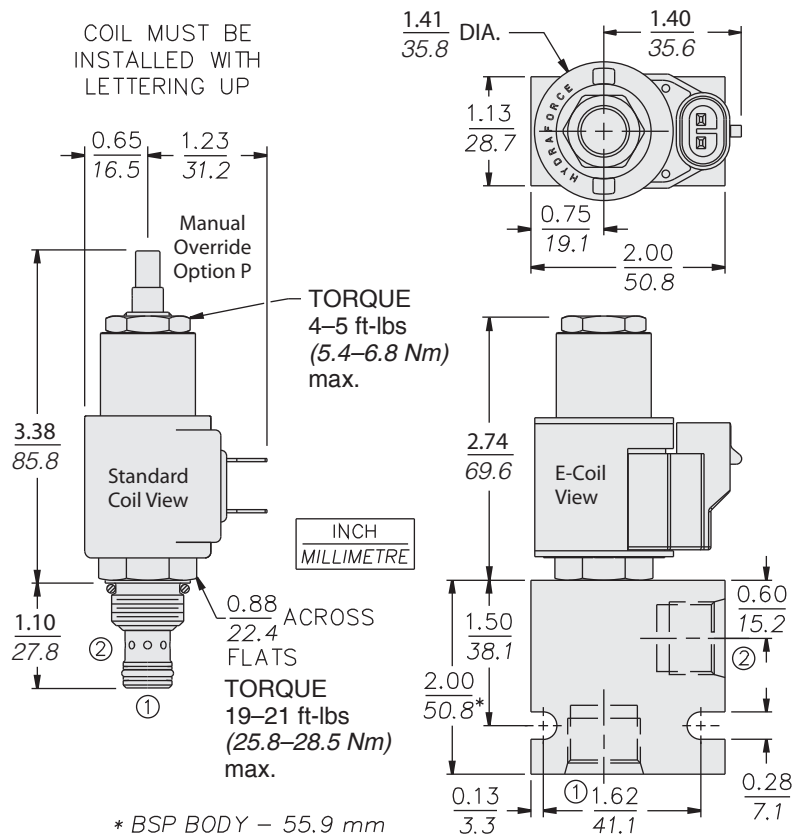
PERFORMANCE



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



DIMENSIONS



MATERIALS

Cartridge: Weight: 0.11 kg. (0.25 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces Buna N O-rings and back-ups standard.

Standard Ported Body: Weight: 0.16 kg. (0.35 lbs.) Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.008.1.

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

TO ORDER

