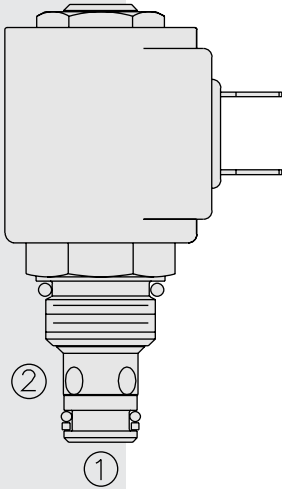


ELECTRO-PROPORTIONAL VALVES—DIRECTIONAL CONTROL

SP08-25 Spool, 2-Way, Normally Open



DESCRIPTION

A proportional solenoid-operated, two-way, spool-type, normally open, bi-directional, screw-in hydraulic cartridge valve.

OPERATION

When de-energized, the **SP08-25** allows flow from ① to ② or from ② to ①. When partially energized, the valve begins to throttle the flow in either direction. When fully energized, flow is blocked in either direction.

External circuitry is required to ramp current.

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.
- Continuous-duty rated coils.
- Hardened precision spool and cage for long life.
- Optional waterproof E-Coils rated up to IP69K.

RATINGS

Operating Pressure: 207 bar (3000 psi)

Operating Voltage: See performance chart

Flow: 0 to 15.4 lpm (0 to 4 gpm)

Internal Leakage: 25 ml per 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: VC08-2; See page 9.108.1

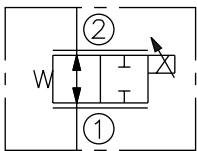
Cavity Tool: CT08-2XX; See page 8.600.1

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

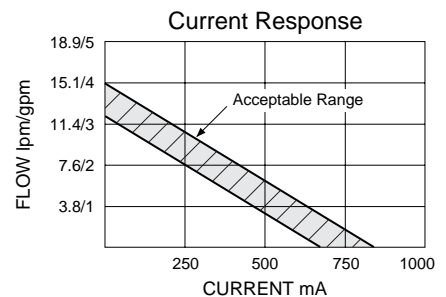
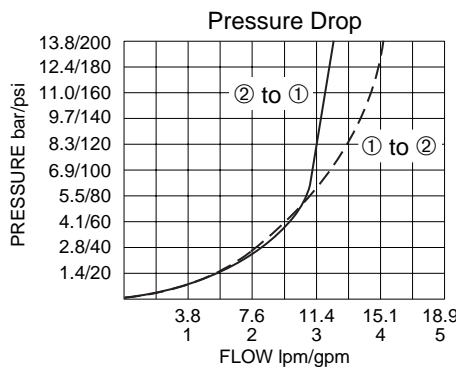
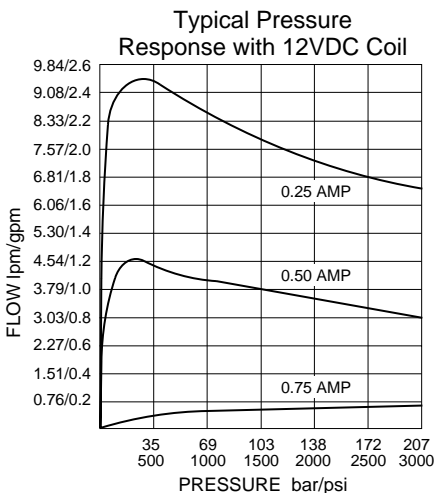
Recommended Electronic Controllers:
See page 2.001.1 or our Electronics catalog.

SYMBOLS

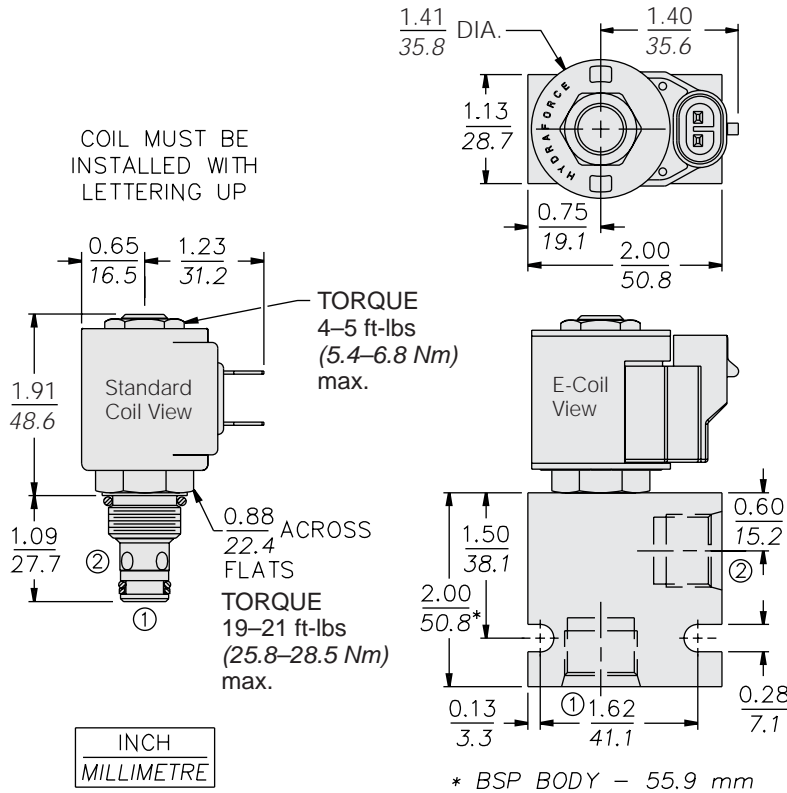
USAS/ISO:



PERFORMANCE



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

