





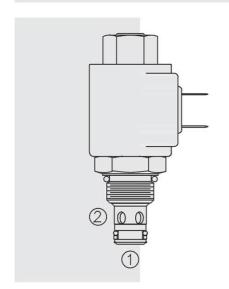


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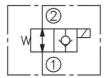
SOLENOID VALVES

SF08-23 Poppet, 2-Way, Normally Open



SYMBOLS

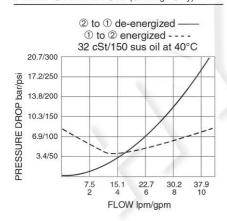
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PERFORMANCE (Cartridge Only)



DESCRIPTION

A solenoid-operated, 2-way, normally open, poppet-type, screw-in hydraulic cartridge valve, designed to function as a load holding or blocking valve in applications requiring low internal leakage at high pressure.

OPERATION

When de-energized, the **SF08-23** poppet lifts to open from When energized, the cartridge acts as a check valve, blocking flow from 2 to 1 after overcoming the solenoid force (requires 3.4 to 10.3 bar / 50 to 150 psi).

Operation of Manual Override Option: To override, push and hold override button.

FEATURES

- · Continuous-duty rated solenoid.
- · Hardened seat for long life and low leakage.
- · Optional coil voltages and terminations.
- · Efficient wet-armature construction.
- · Cartridges are voltage interchangeable.
- · Unitized, molded coil design.
- · Manual override option.
- Optional waterproof E-Coils rated up to IP69K.
- · Corrosion-resistant plating.
- Industry common cavity.

RATINGS

Operating Pressure: 345 bar (5000 psi)

Flow: See Performance Chart

Internal Leakage: 0.15 cc/minute (3 drops/minute) max. at 345 bar (5000 psi)

Temperature: -40 to 100°C with standard polyurethane seals
Coil Duty Rating: Continuous from 85% to 115% of nominal voltage
Initial Coil Current Draw at 20°C: Standard Coil: 1.2 amps at 12 VDC:

0.13 amps at 115 VAC (full wave rectified). E-Coil: 1.4 amps at 12 VDC; 0.7 amps at 24 VDC

Minimum Pull-in Voltage: 85% of nominal at 345 bar (5000 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

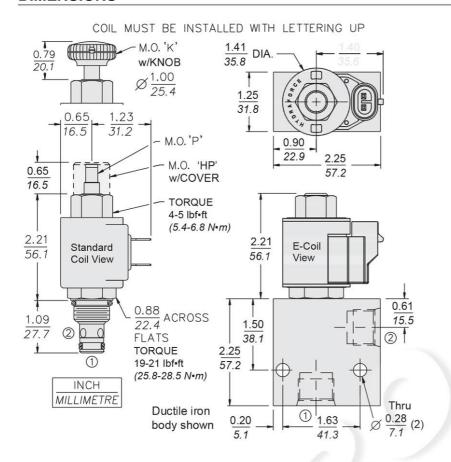
Cavity: VC08-2; See page 9.108.1 Cavity Tool: CT08-2XX; See page 8.600.1 Seal Kit: SK08-2P-T; See page 8.650.1

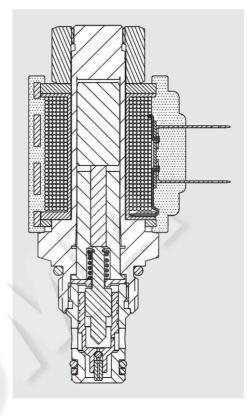
Coil Nut: Part No. 7004410;

For E-coils manufactured prior to 1-1-04, see page 3.400.1 for coil nut info.

Note: This valve, the SF08-23, replaces the SV58-23 which is now obsolete. For more information consult factory.

DIMENSIONS





MATERIALS

Cartridge: Weight: 0.09 kg. (0.20 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces; Polyurethane cast O-rings and Fluorocarbon back-up standard.

Ported Body: Weight: 0.54 kg. (1.2 lbs.), Ductile iron standard; rated to 345 bar (5000 psi); 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.); 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

