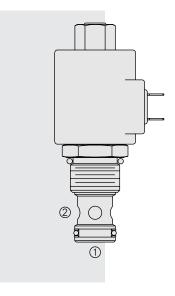
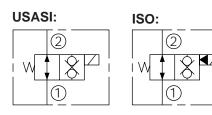
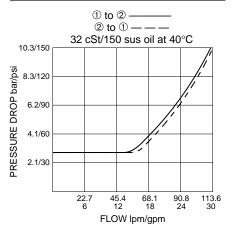
SV12-29 Poppet, 2-Way, N.O., Bi-Directional Blocking



SYMBOLS



PERFORMANCE (Cartridge Only)



DESCRIPTION

A solenoid-operated, two-way, normally open, internally piloted, poppet-type, bi-directional blocking, screw-in hydraulic cartridge valve, designed for low leakage in load-holding applications.

OPERATION

When de-energized, the **SV12-29** allows flow in both directions. When energized, the valve's poppet closes on its seat, blocking flow from @ to ① or ① to @.

FEATURES

- Continuous-duty rated coil.
- Optional coil voltages and terminations.
- Efficient wet-armature construction.
- Manual Override option.
- Cartridges are voltage interchangeable.
- Optional waterproof E-Coils rated up to IP69K.
- Hardened seat for long life and low leakage.
- Unitized, molded coil design.
- Cost-effective cavity.

RATINGS

Operating Pressure: 240 bar (3500 psi)

Flow: 113.6 lpm (30 gpm)

Internal Leakage: 7 drops per minute maximum at 240 bar (3500 psi)

Temperature: -40 to 120°C with standard Buna seals

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

Response Time: First indication of change of state with 100% voltage supplied at 80% of nominal flow rating: Energized: 60 msec.; De-energized: 15 msec.

Initial Coil Current Draw at 20°C: Standard Coil: 1.67 amps at 12 VDC;

0.18 amps at 115 VAC (full wave rectified).

E-Coil: 1.7 amps at 12 VDC; 0.85 amps at 24 VDC

Minimum Pull-in Voltage: 85% of nominal at 240 bar (3500 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: VC12-2; See page 9.112.1

Cavity Tool: CT12-2XX; See page 8.600.1

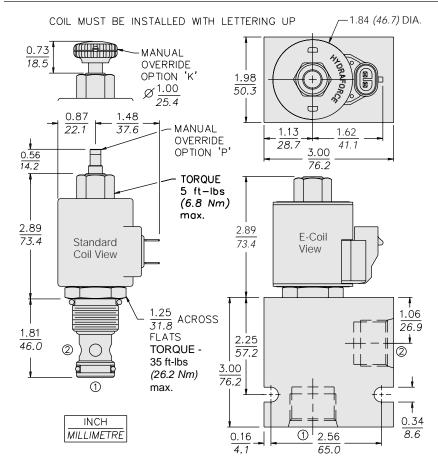
Seal Kit: SK12-2X-M; See page 8.650.1

Coil Nut: Part No. 7004420

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

SV12-29

DIMENSIONS



MATERIALS

- **Cartridge:** Weight: 0.25 kg. (0.55 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-up standard.
- Standard Ported Body: Weight: 0.57 kg. (1.25 lbs.) Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.012.1
- Standard 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

SV12-29				 T	
Option None (I Manual Override without knob Manual Override with knob For Manual Override opti see page 1.001.1	Blank) P K ons	36	Voltage Std. Coil Less Coil** 10 VDC [†] 12 VDC 24 VDC 36 VDC 48 VDC	DS DG DL DL/W DR	Termination (VDC) Std. Coil Dual Spades DIN 43650 Leadwires (2) Leads w/Weatherpak® Connectors Deutsch DT04-2P
Porting Cartridge Only SAE 10 SAE 12 SAE 16 3/4 in. BSP*	12T 16T	24 115 230 **Inclue		AG AP	Termination (VAC) Std. Coil DIN 43650 1/2 in. Conduit Termination (VDC) E-Coil
1 in. BSP 1 in. BSP* *BSP Body; U.K. Mfr. Buna N (Std.) Fluorocarbon	8B		E-Coil 10 VDC 12 VDC 20 VDC 24 VDC		Deutsch DT04-2P (IP69K Rated) Metri-Pack® 150 (IP69K Rated) ils with internal diode are ailable. Consult factory.