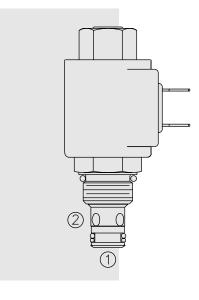
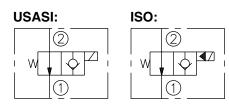
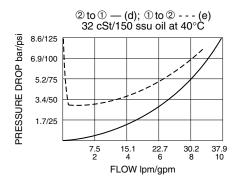
SV08-21 Poppet, 2-Way, Normally Open



SYMBOLS



PERFORMANCE (Cartridge Only)



DESCRIPTION

A solenoid-operated, 2-way, piloted, poppet-type, normally open, screw-in, hydraulic cartridge valve designed for low leakage in load-holding applications.

OPERATION

When de-energized, the SV08-21 allows flow from ② to ①. Flow from ① to ② is severely restricted in this mode. If the ② to ① path is required see model SV08-23, page 1.050.1.

When energized, the valve's poppet closes on its seat, blocking flow from @ to ①. In this mode the cartridge will allow ① to @ flow 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 coil.
- 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.
- Industry common cavity.
- Compact size.

RATINGS

Operating Pressure: 207 bar (3000 psi)

Flow: See Performance Chart

Internal Leakage: 0.15 cc/minute (3 drops/minute) max. at 207 bar (3000 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: 50 msec.; De-energized: 16 msec.

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 207 bar (3000 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 ssu)

Installation: No restrictions; See page 9.020.1

Cavity: VC08-2; See page 9.108.1

Cavity Tool: CT08-2XX; See page 8.500.1

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

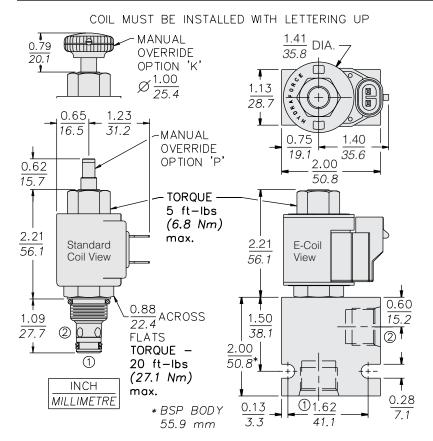
Coil Nut: Part No. 7004410;

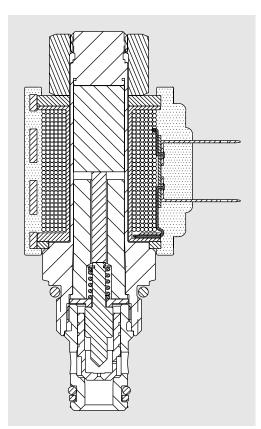
For E-coils manufactured prior to 1-1-04, see page 3.400.1 for coil nut info.



SV08-21

DIMENSIONS





MATERIALS

- **Cartridge:** Weight: 0.09 kg. (0.20 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N O-rings and back-up standard.
- Standard Ported Body: Weight: 0.16 kg. (0.35 lbs.); Anodized high-strength 6061 T6 aluminum alloy, rated to 240 bar (3500 psi); See page 8.008.1. Ductile iron and steel bodies available; consult factory.
- 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

SV08-21			- <u></u> T	
<u>Option</u> None Manual Override without Knob Manual Override with Knob <u>Porting</u> Cartridge Only	(Blank) P K	Voltage Std. Coil 0 Less Coil** 10 10 VDC [†] 12 12 VDC 24 24 VDC 36 36 VDC 48 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
SAE 4 SAE 6 SAE 8 1/4 in. BSP* 3/8 in. BSP* *BSP Body;	4T 6T 8T 2B 3B	24 24 VAC 115 115 VAC 230 230 VAC **Includes Std. Coil Nut † DS, DW or DL terminations only	AG AP	Termination (VAC) Std. Coil DIN 43650 1/2 in. Conduit Termination (VDC) E-Coil
U.K. Mfr. Only Seals Buna N (Std.) Fluorocarbon	N V	E-Coil 10 10 VDC 12 12 VDC 20 20 VDC 24 VDC		Deutsch DT04-2P (IP69K Rated) Metri-Pack® 150 (IP69K Rated) ils with internal diode are ailable. Consult factory.