SV08-25  Spool, 2-Way, Normally Open

DESCRIPTION
A solenoid-operated, two-way, normally open, direct-acting, spool-type, screw-in hydraulic cartridge valve designed to function as a bidirectional blocking valve in low flow circuits.

OPERATION
When de-energized, the SV08-25 allows flow in both directions.
When energized, the valve’s spool shifts to close bidirectionally.

Operation of Manual Override Option: To override, push button in and twist counter-clockwise 180°. The internal spring will push the button out. In this position, the valve may be only partially shifted. To assure full override shift, pull the button out to its fullest extension and hold it in this position.
To return to normal valve function, push button in, twist clockwise 180°, and release. Override will be detented in this position.

FEATURES
• Hardened precision spool and cage for long life.
• Optional coil voltages and terminations.
• Efficient wet-armature construction.
• Both ports may be fully pressurized.
• Cartridges are voltage-interchangeable.
• Manual override option.
• Optional waterproof E-Coils rated up to IP69K.
• Unitized molded coil design.
• Compact size.

RATINGS
Operating Pressure: 207 bar (3000 psi)
Flow: 9.5 lpm (2.5 gpm) max.
Internal Leakage: 82 cc/minute (5 cu. in./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
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 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;
For E-coils manufactured prior to 1-1-04, see page 3.400.1 for coil nut info.
SV08-25

DIMENSIONS

Standard Coil View

Coil MUST BE INSTALLED WITH LETTERING UP

Torque 5 ft-lbs (6.8 Nm) max.

Manual Override Option

Torque 20 ft-lbs (27.1 Nm) max.

INCH

MILLIMETRE

Option

None (Blank) S
Manual Override M

Porting

Cartridge Only 0
SAE 4 4T
SAE 6 6T
1/4 in. BSP* 2B
3/8 in. BSP* 3B
1/2 in. BSP* 4B

*BSP Body; U.K. Mfr. Only

Seals

Buna N (Std.) N
Fluorocarbon V

Voltage

Std. Coil
0 Less Coil**
10 10 VDC†
12 12 VDC
24 24 VDC
36 36 VDC
48 48 VDC
115 115 VAC
230 230 VAC

**Includes Std. Coil Nut
† DS, DW or DL terminations only.

Termination (VDC)

Std. Coil
DS Dual Spades
DG DIN 43650
DL Leadwires (2)
DL/W Leads w/Weatherpak® Connectors
DR Deutsch DT04-2P

Termination (VAC)

Std. Coil
AG DIN 43650
AP 1/2 in. Conduit

Termination (VDC) E-Coil

ER Deutsch DT04-2P (IP69K Rated)
EY Metri-Pack® 150 (IP69K Rated)

BSP BODY – 55.9 mm

MATERIALS

Cartridge: Weight: 0.09 kg. (0.20 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.

Note: See page 3.400.1 for all E-Coil retrofit applications.

TO ORDER

SV08-25 - - - -

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Manual Override M

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