A solenoid-operated, two-way, normally closed, direct-acting, needle-type, screw-in hydraulic cartridge valve, designed to function as a blocking or load-holding device for low flow circuits.

**OPERATION**

When de-energized, the **SV08-26** blocks flow in both directions, to pressure rating. If pressure on ➀ exceeds the rating, flow may pass from ➀ to ➁. When energized, the needle point lifts to open the valve bidirectionally. Port ➁ is the recommended load-holding port.

**Operation of Manual Override Option:** To override, push button in, twist counterclockwise 180° and release. In this position, the valve will remain open. To return to normal operation, push button in, twist clockwise 180° and release. Override will be detented in this position.

**FEATURES**

- Continuous-duty rated solenoid.
- Hardened seat for long life and low leakage.
- Optional coil voltages and terminations.
- Cartridges are voltage interchangeable.
- Unitized, molded coil design.
- Industry common cavity.
- Manual override option.
- Optional waterproof E-Coils rated up to IP69K.
- Compact size.

**RATINGS**

**Operating Pressure:** 207 bar (3000 psi)

**Effective Orifice Size:** 0.81 mm (0.032 in.)

**Internal Leakage:** 0.10 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 (➁ to ➀ direction):

- Energized: 16 msec.; De-energized: 10 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 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.
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-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

SV08-26 - - -

Option
None (Blank)
Screen 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

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

Termination (VDC)
Std. Coil
AG DIN 43650
AP 1/2 in. Conduit

Voltage
Std. Coil
0 Less Coil**
10 10 VDC†
12 12 VDC
24 24 VDC
36 36 VDC
48 48 VDC
24 24 VAC
115 115 VAC
230 230 VAC
*Includes Std. Coil Nut
† DS, DW or DL terminations only.

Termination (VDC)
E-Coil
ER Deutsch DT04-2P (IP69K Rated)
EY Metri-Pack® 150 (IP69K Rated)
Coils with internal diode are available. Consult factory.