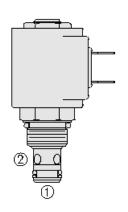


Overview



Symbol

Description

A solenoid-operated, 2 port, normally closed, direct-acting, spool-type, screw in hydraulic cartridge valve, designed to operate as a bidirectional blocking valve in low flow circuits

Operation

When de-energized, the sv08-24xx blocks flow in both directions. When energized, the cartridge's spool shifts to open the bidirectional flow path

Features

- · Bidirectional flow path.
- Manual override option.
- · Screen option.
- · Continuous-duty rated coil.
- Hardened precision spool and cage for long life.
- Optional coil voltages and terminations.
- · Both ports may be fully pressurized.
- · 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

Pressure Ratings

Pressure rating 207 bar (3000 psi)
Proof pressure 241 bar (3500 psi)
Burst pressure 620 bar (9000 psi)

Flow Ratings

Flow rating 17 lpm (4.5 gpm) - Note: Max

Maximum internal leakage 82 ml/min (5 in³/min) - Note: From port 2 to port 1 at 207 bar (3000 psi)

Temperature Ratings

Operating fluid temperature

-40 to 100 °C (-40 to 212 °F)
-26 to 204 °C (-15 to 400 °F)
-54 to 107 °C (-65 to 225 °F)

-Note: With buna N seals
- Note: With fluorocarbon seals
- Note: With polyurethane seals

Storage temperature -40 to 70 °C (-40 to 160 °F) Ambient temperature -40 to 70 °C (-40 to 160 °F)

Other Ratings

Corrosion protection 960 hr salt spray per ASTM b117 (gsv08-24xx)

Operating Parameters

Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt
Maximum operating contamination level 20/18/14 per ISO 4406

Properties

Unit weight 0.09 kg (0.20 lb)
Internal wetted surface area 85 cm² (13.2 in²)

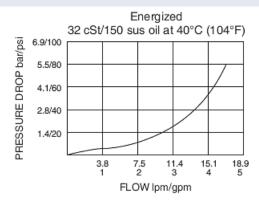
Electrical Parameters

Minimum pull in voltage 10.2 Vdc - Note: 12 Vdc coil

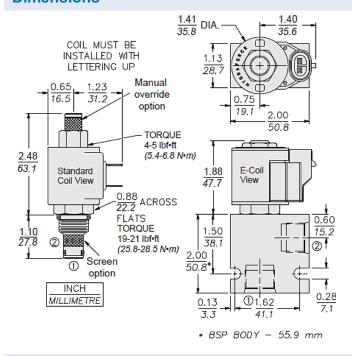
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Performance



Dimensions



Materials

Materials

Cartridge: Weight: 0.09 kg (0.20 lb); Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N Oâ€'rings and back-ups standard.

Standard Ported Body: Weight: 0.16 kg (0.35 lb); Anodized high-strength aluminum alloy, rated to 207 bar (3000 psi); Ductile iron bodies available; dimensions may differ.

Standard D-Coil: Weight each: 0.11 kg (0.25 lb); Unitized thermoplastic encapsulated, Class H high temperature magnet wire. **E-Coil:** Weight: 0.14 kg (0.3 lb); Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with integral connectors.

Installation Specifications

Cavity VC08-2

Cartridge installation torque 25.8 to 28.5 N-m (19 to 21 ft-lb)

Maximum allowable torque 54.2 N-m (40 ft-lb) - Note: In aluminum

Coil nut torque 5.4 to 6.8 N-m (4 to 5 ft-lb)

Orientation restriction None

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Accessories

Seal kit Housings Coils SK08-2X-M - Note: X = seal option

Order Code

POSITION	CODE	DESCRIPTION
		SV08-24EG-H-J-L
E		Manual Override
E	BLANK	NONE
Е	M	Two Position Override, Red Knurled Knob
G		Screen
G	BLANK	NONE
G	S	100 Mesh Screen
Н		Line Body
Н	0	No Body
Н	4T	Aluminum SAE 4
Н	6T	Aluminum SAE 6
Н	8T	Aluminum SAE 8
Н	6TD	Ductile Iron SAE 6
Н	8TD	Ductile Iron SAE 8
Н	2B	Aluminum BSPP 1/4" (2)
Н	3B	Aluminum BSPP 3/8" (3)
Н	3BD	Ductile Iron BSPP 3/8" (3)
J		Seal
J	N	Buna-N
J	V	Fluorocarbon
J	Р	Polyurethane
J	U	PPDI Urethane
L		Coil
L	0	No Coil
L	10DL	10 VDC, D-Coil, Dual Lead Wires
L	10DR/D	10 VDC, D-Coil, Deutsch with Diode
L	10DS	10 VDC, D-Coil, Dual Spade
L	10EL	10 VDC, E-Coil, Dual Lead Wires, 18 inches long
L	10EL/36	10 VDC, E-Coil, Dual Lead Wires, 36 inches long
L	10ER	10 VDC, E-Coil, Deutsch
L	10ER/Z	10 VDC, E-Coil, Deutsch with Zener Diode
L	12DG	12 VDC, D-Coil, DIN 43650
L	12DL	12 VDC, D-Coil, Dual Lead Wires, 18 inches long
L	12DL/36	12 VDC, D-Coil, Dual Lead Wires, 36 inches long
L	12DL/W	12 VDC, D-Coil, Dual Lead Wires with Weatherpak
L	12DL/W/D	12 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode
L	12DR	12 VDC, D-Coil, Deutsch
L	12DR/D	12 VDC, D-Coil, Deutsch with Diode

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POSITION	CODE	DESCRIPTION
L	12DR/Z	12 VDC, D-Coil, Deutsch with Zener Diode
L	12DS	12 VDC, D-Coil, Dual Spade
L	12EG	12 VDC, E-Coil, DIN 43650
L	12EG/Z	12 VDC, E-Coil, DIN 43650 with Zener Diode
L	12EJ	12 VDC, E-Coil, AMP Jr.
L	12EJ/Z	12 VDC, E-Coil, AMP Jr. with Zener Diode
L.	12EL	12 VDC, E-Coil, Dual Lead Wires, 18 inches long
L	12EL/36	12 VDC, E-Coil, Dual Lead Wires, 36 inches long
L	12EL/Z	12 VDC, E-Coil, Dual Lead Wires with Zener Diode
L	12ER	12 VDC, E-Coil, Deutsch
L	12ER/Z	12 VDC, E-Coil, Deutsch with Zener Diode
L	12EY	12 VDC, E-Coil, Metri-Pack 150
L	12EY/Z	12 VDC, E-Coil, Metri-Pack 150 with Zener Diode
L	20DG	20 VDC, D-Coil, DIN 43650
L	20DS	20 VDC, D-Coil, Dual Spade
L	20ER	20 VDC, E-Coil, Deutsch
L	20ER/Z	20 VDC, E-Coil, Deutsch with Zener Diode
L	24AG	24 VDC, D-Coil, DIN 43650
L	24AP	24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires
L	24DG	24 VDC, D-Coil, DIN 43650
L	24DL	24 VDC, D-Coil, Dual Lead Wires, 18 inches long
L	24DL/36	24 VDC, D-Coil, Dual Lead Wires, 36 inches long
L	24DL/W	24 VDC, D-Coil, Dual Lead Wires with Weatherpak
L	24DR	24 VDC, D-Coil, Deutsch
L	24DR/D	24 VDC, D-Coil, Deutsch with Diode
L	24DR/Z	24 VDC, D-Coil, Deutsch with Zener Diode
L	24DS	24 VDC, D-Coil, Dual Spade
L	24EG	24 VDC, E-Coil, DIN 43650
L	24EG/Z	24 VDC, E-Coil, DIN 43650 with Zener Diode
L	24EJ	24 VDC, E-Coil, AMP Jr.
L	24EL/D	24 VDC, E-Coil, Dual Lead Wires with Diode
L	24ER	24 VDC, E-Coil, Deutsch
L	24ER/Z	24 VDC, E-Coil, Deutsch with Zener Diode
L	24EY	24 VDC, E-Coil, Metri-Pack 150
L	24EY/Z	24 VDC, E-Coil, Metri-Pack 150 with Zener Diode
L	36DG	36 VDC, D-Coil, DIN 43650
L	36DS	36 VDC, D-Coil, Dual Spade
L	115AG	115 VAC, D-Coil, DIN 43650
L	115AP	115 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires
L	230AG	230 VAC, D-Coil, DIN 43650
L	230AP	230 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires

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