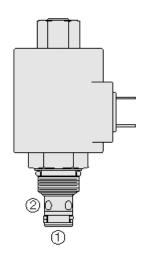


#### **Overview**



#### **Description**

A solenoid-operated, 2 port, normally closed, poppet-type, bidirectional blocking, screw-in hydraulic cartridge valve, designed for low leakage in load holding applications

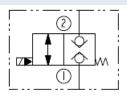
#### Operation

When de-energized, the SV38-28X blocks flow in both directions. When energized, the valve's poppet opens on its seat, allowing flow from port 2 to port 1 and port 1 to port 2

#### **Features**

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

## **Symbol**



## **Ratings**

#### Pressure Ratings

Pressure rating 207 bar (3000 psi)
Proof pressure 345 bar (5000 psi)
Burst pressure 779 bar (11300 psi)

#### **Flow Ratings**

Flow rating See graph

Maximum internal leakage 5 drops/min - Note: Max 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 viton 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)

## **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

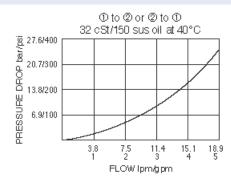
## **Properties**

Unit weight 0.2 kg (0.45 lb)
Internal wetted surface area 130 cm² (20.1 in²)

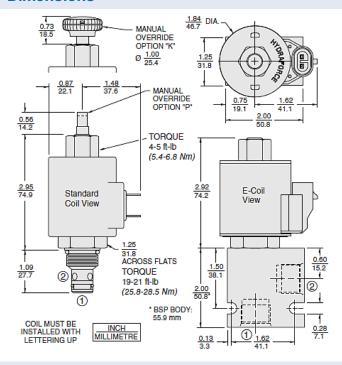
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#### **Performance**



#### **Dimensions**



## **Materials**

#### **Materials**

**Cartridge:** Weight: 0.15 kg (0.33 lb); Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N Oâ€'rings and polyester elastomer back-up standard.

**Standard Ported Body:** Weight: 0.16 kg (0.35 lb); Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi); Ductile iron bodies available; dimensions may differ.

Standard D-Coil: Weight each: 0.27 kg (0.60 lb); Unitized thermoplastic encapsulated, Class H high temperature magnet wire.

**E-Coil:** Weight: 0.41 kg (0.9 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)
Coil nut torque 5.4 to 6.8 N-m (4 to 5 ft-lb)

Orientation restriction None

#### **Accessories**

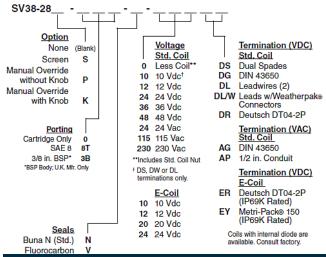
Seal kit SK38-2X-M - Note: X = seal option

Housings Coils

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## **Order Code**



Fluorocarbon	V	available. Consult factory.
POSITION	CODE	DESCRIPTION
		SV38-28EG-H-J-L
E		Manual Override
E	BLANK	NONE
Е	K	Momentary Push Override, Knob
E	Р	Momentary Push Override, Button
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	10DG	10 VDC, D-Coil, DIN 43650
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
L	10ER	10 VDC, E-Coil, Deutsch

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POSITION	CODE	DESCRIPTION
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
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	12EJ	12 VDC, E-Coil, AMP Jr.
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/W/Z	12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
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	20DR/D	20 VDC, D-Coil, Deutsch with Diode
L	20DS	20 VDC, D-Coil, Dual Spade
L	20ER	20 VDC, E-Coil, Deutsch
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
L	24DL/W	24 VDC, D-Coil, Dual Lead Wires with Weatherpak
L	24DL/W/D	24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode
L	24DP	24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires
L	24DR	24 VDC, D-Coil, Deutsch
L	24DR/D	24 VDC, D-Coil, Deutsch with Diode
L	24DS	24 VDC, D-Coil, Dual Spade
L	24EG	24 VDC, E-Coil, DIN 43650
L	24EJ	24 VDC, E-Coil, AMP Jr.
L	24EL	24 VDC, E-Coil, Dual Lead Wires, 18 inches long
L	24EL/36	24 VDC, E-Coil, Dual Lead Wires, 36 inches long
L	24EL/W/Z	24 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener 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	36DS	36 VDC, D-Coil, Dual Spade

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# SOLENOID CARTRIDGE VALVE POPPET, 2 PORT, NORMALLY CLOSED BIDIRECTIONAL BLOCKING



POSITION	CODE	DESCRIPTION
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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