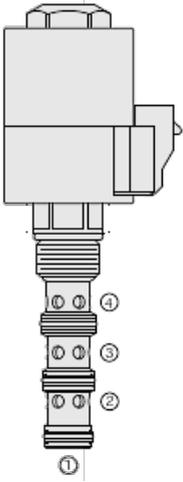




## Overview



### Description

A solenoid operated, 2 position, 4 way, direct-acting spool type, screw-in hydraulic cartridge valve.

### Operation

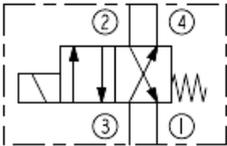
When de-energized, the SV12-40R allows flow from port 2 to port 1 and from port 3 to port 4. When energized, the spool shifts to allow flow from port 3 to port 2, and from port 4 to port 1.

**note:** consult factory for applications where port 1 will be used as an inlet.

### Features

- Continuous-duty rated coil. Hardened precision spool and cage for long life. Optional coil voltages and terminations. Manual override option. All ports may be fully pressurized. Heavy-duty waterproof E-Coils rated up to IP69K.

## Symbol



## Ratings

### Pressure Ratings

Pressure rating	241 bar (3500 psi)
Proof pressure	345 bar (5000 psi)
Burst pressure	758 bar (11000 psi)

### Flow Ratings

Maximum internal leakage	410 ml/min (25 in <sup>3</sup> /min)	- <b>Note:</b> Max at 240 bar (3500 psi)
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### Temperature Ratings

Operating fluid temperature	-40 to 100 °C (-40 to 212 °F)	- <b>Note:</b> With buna N seals
	-26 to 204 °C (-15 to 400 °F)	- <b>Note:</b> With viton seals
	-54 to 107 °C (-65 to 225 °F)	- <b>Note:</b> 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

Environmental rating	Ip67 (with integral connectors)
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## Operating Parameters

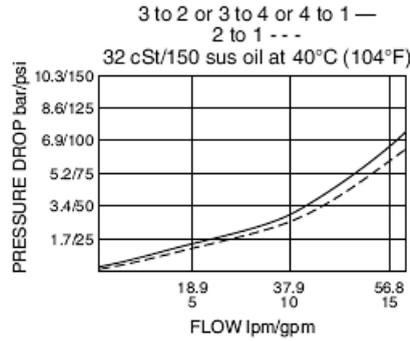
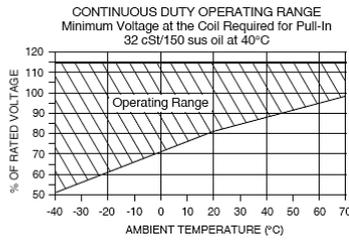
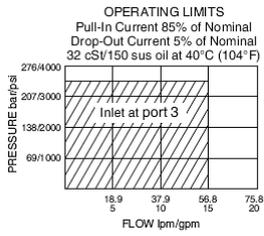
Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination level	20/18/14 per ISO 4406

## Properties

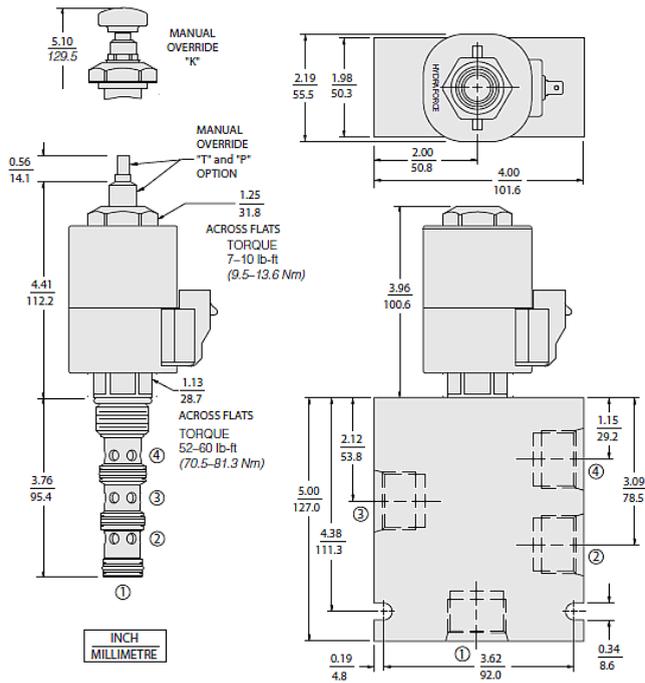
Unit weight	0.43 kg (0.95 lb)
Internal wetted surface area	333 cm <sup>2</sup> (51.6 in <sup>2</sup> )



**Performance**



**Dimensions**



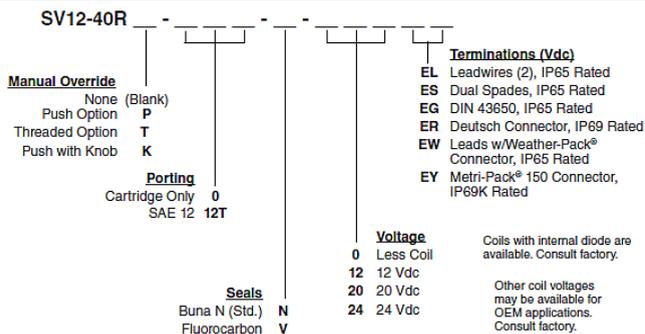
**Installation Specifications**

Cavity	VC12-4
Cartridge installation torque	70.5 to 81.3 N-m (52 to 60 ft-lb)
Coil nut torque	6.8 to 9.5 N-m (5 to 7 ft-lb)
Orientation restriction	None

**Accessories**

Seal kit SK12-4X-MMM - **Note:** X=seal option

**Order Code**



**Model Options**



## SV12-40RE-H-J-L

### E Manual Override

CODE	DESCRIPTION
BLANK	NONE
K	Momentary Push Override, Knob
P	Momentary Push Override, Button
T	Variable Position Override, Slotted Screw

### H Line Body

CODE	DESCRIPTION
0	No Body
10T	Aluminum SAE 10
12T	Aluminum SAE 12
12TD	Ductile Iron SAE 12
6B	Aluminum BSPP 3/4" (6)

### J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
P	Polyurethane
U	PPDI Urethane

### L Coil

CODE	DESCRIPTION
0	No Coil
12EG	12 VDC, E-Coil, DIN 43650
12EL	12 VDC, E-Coil, Dual Lead Wires
12EL/W	12 VDC, E-Coil, Dual Lead Wires with WeatherPak
12ER	12 VDC, E-Coil, Deutsch
12ER/Z	12 VDC, E-Coil, Deutsch with Zener Diode
12ES	12 VDC, E-Coil, Dual Spade
12EY	12 VDC, E-Coil, Metri-Pack 150
24EG	24 VDC, E-Coil, DIN 43650
24ER	24 VDC, E-Coil, Deutsch
24ER/Z	24 VDC, E-Coil, Deutsch with Zener Diode
24ES	24 VDC, E-Coil, Dual Spade