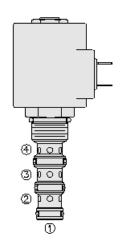


## **Overview**



### **Description**

A solenoid-operated, 4 port, 2 position, direct-acting, spool-type, screw-in hydraulic cartridge valve. When de-energized, the SV10-40AX allows flow from port 3 to port 2, as well as from port 4 to port 1. When energized, the spool shifts to open port 3 to port 4 and port 2 to port 1. Spool shift is closed in transition by nominal dimensions of spool to cage cross holes overlap during transition.

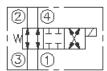
#### **Features**

- o Continuous-duty rated coil with unitized, molded coil design.
- · Hardened precision spool and cage for long life.
- · Optional coil voltages and terminations.
- · Efficient wet-armature construction.
- · Cartridges are voltage interchangeable.
- · All ports may be fully pressurized.
- o Optional waterproof Eâ€'Coils rated up to IP69K.
- · Industry-common cavity.

## **Symbol**



#### TRANSITION:



## **Ratings**

### Pressure Ratings

207 bar (3000 psi) Pressure rating

276 bar (4000 psi) - Note: (sv10-40a) Proof pressure - Note: (sv10-40a) Burst pressure 621 bar (9000 psi)

Flow Ratings

- Note: See "performance range" (port 2 connected to port 4) Flow rating

164 ml/min(10 in³/min) - No TESTED AT 207 bar (3000 psi) - Note: AT PORT 1 WITH PORTS 2 AND 4 BLOCKED. Maximum internal leakage

Temperature Ratings

-40 to 100 °C (-40 to 212 °F) - Note: With buna N seals Operating fluid temperature -26 to 204 °C (-15 to 400 °F) - Note: With viton seals

-54 to 107 °C (-65 to 225 °F) - Note: With polyurethane seals

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

Other Ratings

46 ms  $\,$  - Note: Energized (first indication of change of state with 100% voltage applied to the coil with flow at 34 lpm (9 gpm) Response

22 ms Note: De-energized (first indication of change of state with 100%)

voltage applied to the coil with flow at 34 lpm (9 gpm)

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## **Operating Parameters**

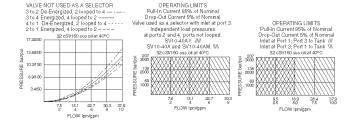
Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

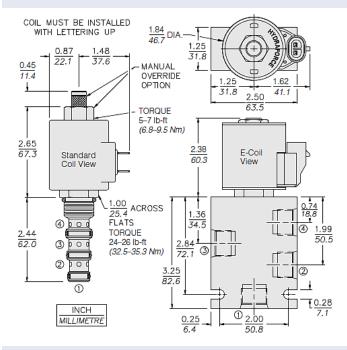
Maximum operating contamination 20/18/14 per ISO 4406

level

## **Performance**



## **Dimensions**



## **Installation Specifications**

Cavity VC10-4

Cartridge installation torque 32.5 to 35.3 N-m (24 to 26 ft-lb)
Coil nut torque 6.8 to 9.5 N-m (5 to 7 ft-lb)

Orientation restriction None

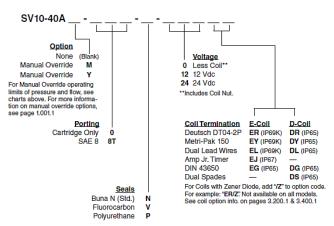
#### **Accessories**

Seal kit SK10-4X-MMM - Note: X = seal option

## **Order Code**

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## **Model Options**

## SV10-40AE-H-J-L

### **E Manual Override**

CODE	DESCRIPTION
BLANK	NONE
J	Momentary Pull Override, #10-32 threads
М	Two Position Override, Red Knurled Knob
Υ	Momentary Pull Override, Red Knurled Knob

## **H Line Body**

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6

### J Seal

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

## L Coil

CODE	DESCRIPTION
0	No Coil
10DG	10 VDC, D-Coil, DIN 43650
10DL	10 VDC, D-Coil, Dual Lead Wires
10DR/D	10 VDC, D-Coil, Deutsch with Diode
10DS	10 VDC, D-Coil, Dual Spade
10EL	10 VDC, E-Coil, Dual Lead Wires
10ER	10 VDC, E-Coil, Deutsch
10ER/Z	10 VDC, E-Coil, Deutsch with Zener Diode
12DG	12 VDC, D-Coil, DIN 43650
12DL	12 VDC, D-Coil, Dual Lead Wires, 18 inches long
12DL/36	12 VDC, D-Coil, Dual Lead Wires, 36 inches long

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

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# SOLENOID CARTRIDGE VALVE SPOOL, 4 PORT, 2 POSITION



CODE	DESCRIPTION
230AP	230 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires

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