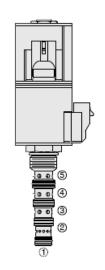


Overview



Description

The SV10-59DX is a solenoid operated, 5 way, 3 position, direct acting, spool type, screw-in hydraulic cartridge valve.

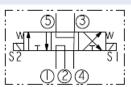
Operation

When de-energized, flow between ports 3, 4, and 5, and with a power beyond between ports 1 and 2. When coil #1 is energized, flow is allowed from 1 to 3 and from 5 to 4, with power beyond blocked. When coil #2 is energized, flow is allowed from 1 to 5 and from 3 to 4, with power beyond blocked.

Features

- "Power Beyond" feature allows multiple functions, less hose, fewer drillings.
- · Motor spool.
- · Continuous-duty rated solenoid.
- · Hardened precision spool and cage for long life.
- · Optional coil voltages and terminations.
- o Optional waterproof Eâ€'Coils rated up to IP69K.
- · Cartridges are voltage interchangeable.

Symbol



Ratings

Pressure Ratings

Pressure rating 207 bar (3000 psi)

Flow Ratings

Flow rating 15.1 lpm (4.0 gpm)

328 ml/min (20 in³/min) - Note: At 207 bar (3000 psi) from port 1 to port 3 with ports 2, 4, and 5 blocked, valve in neutral, and from port 1 to ports 2 and 4 combined with ports 5 and 3 blocked, valve energized S1, then S2 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

Operating Parameters

Mineral based or synthetic hydraulic fluid with lubricating properties Fluids

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

level

Properties

0.29 kg (0.65 lb) - Note: Standard valve Unit weight 259 cm² (40.2 in²) - Note: Standard valve Internal wetted surface area

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Performance

Pressure Drop vs. Flow 32 cSt/150 sus oil at 40°C

— 1-3 Coil S1, Energized; — 1-5 Coil S2, Energized, 1-2 Neutral — 3-4 Coil S2, Energized, 5-4 Coil S1, Energized

27.6/400

24.1/350

20.7/300

17.2/250

13.8/200

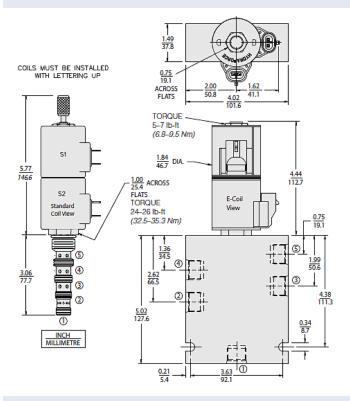
10.3/150

6.9/100

3.4/50

3.8 7.6 11.4 15.1 18.9 22.7 26.5 30.3 FLOW lpm/gpm

Dimensions



Installation Specifications

Cavity VC10-5

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

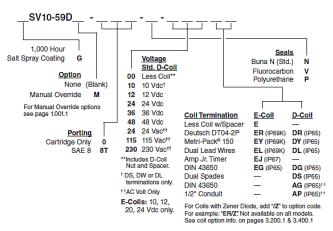
Accessories

Seal kit SK10-5X-MMMM - Note: X = seal option

Order Code

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Model Options

SV10-59DE-H-J-L

E Manual Override

CODE	DESCRIPTION
В	Momentary Push/Pull Override, 1.5" Diameter Aluminum Knob
BLANK	NONE
K	Three Position Override, 1.5" Diameter Aluminum Knob
М	Momentary Push/Pull Override, Red Knurled Knob

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8

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 3 POSITION, 5 PORT, MOTOR SPOOL WITH POWER BEYOND PORT $\,$



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

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