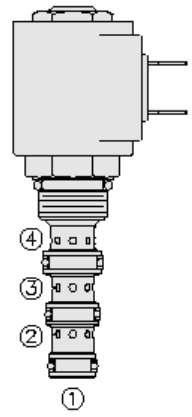
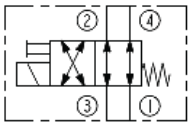
SOLENOID CARTRIDGE VALVE SPOOL, 4 PORT, 2 POSITION

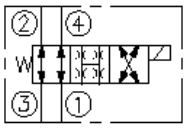
Overview



SYMBOL



TRANSITION:



Description

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

Operation

When de-energized, the SV08-40X flow paths are port 3 to port 2, and port 4 to port 1. When energized, the valve's spool shifts to open port 3 to port 4, and port 2 to port 1. All ports are open at cross-over.

Features

- Continuous-duty rated coil.
- 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.
- Unitized, molded coil design.
- Manual override option.
- Optional waterproof E-Coils rated up to IP69K.
- 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: See graph

Maximum internal leakage: 164 ml/min (10 in^3/min)

Temperature Ratings

Operating fluid temperature: -40 to 100 °C (-40 to 212 °F) note: With buna N seals

-26 to 204 °C (-15 to 400 °F) note: With fluorocarbon seals

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

-54 to 107 °C (-65 to 225 °F) note: With urethane 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 (gsv08-40)

Operating Parameters

Fluids: Mineral based or synthetic hydraulic fluid with lubricating properties

SOLENOID CARTRIDGE VALVE SPOOL, 4 PORT, 2 POSITION

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

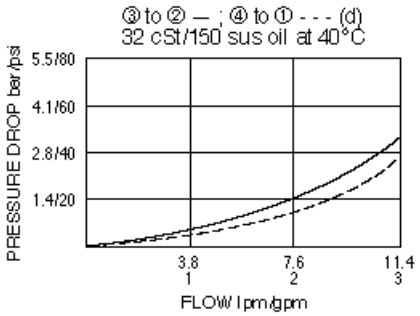
Properties

Unit weight: 0.11 kg (0.25 lb)
Internal wetted surface area: 120 cm^2 (18.6 in^2)

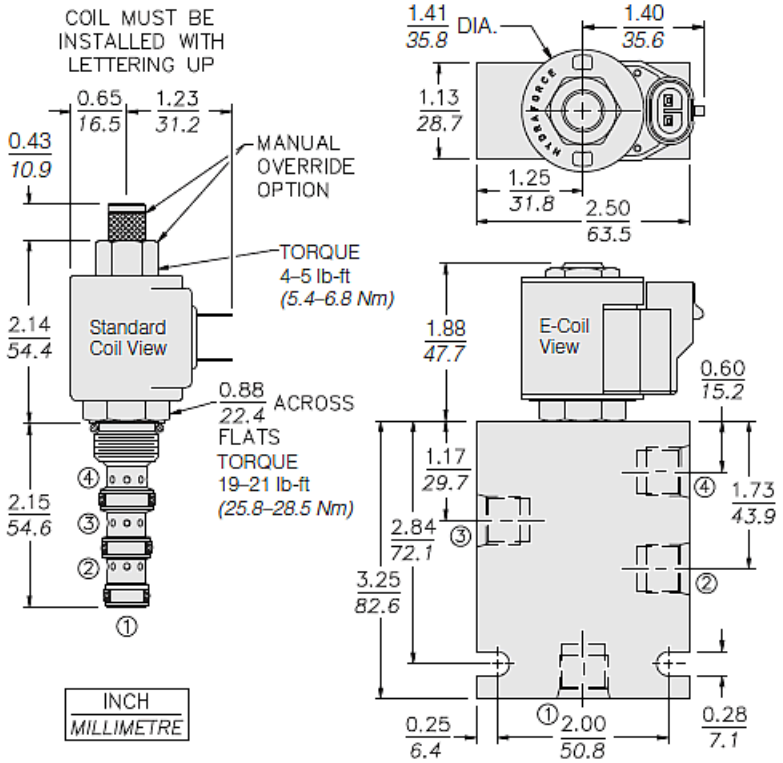
Electrical Parameters

Pull in voltage: 85% of nominal at 40 °C (104 °F)
Drop out voltage: 5% of nominal

Performance



Dimensions



SOLENOID CARTRIDGE VALVE SPOOL, 4 PORT, 2 POSITION

Installation Specifications

Cavity: VC08-4

08-size-4-way Cavities

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

Maximum allowable torque: 51.2 N-m (40 ft-lb)

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

Orientation restriction: None

Accessories

Seal kit: SK08-4X-MM

Seal kit installation instructions

Housings: Available 08-4w valve bodies

Coils: 08 size D coils; 08 size E coils

Order Code

SV08-40__ - ___ - __ - ____ __

Option
None (Blank)
Manual Override M
For Manual Override options see page 1.001.1

Porting
Cartridge Only 0
SAE 6 6T
3/8 in. BSP* 3B
*BSP Body; U.K. Mfr. Only

Seals
Buna N (Std.) N
Fluorocarbon V
Polyurethane P

Voltage
Std. Coil
0 Less Coil**
10 10 Vdc†
12 12 Vdc
24 24 Vdc
36 36 Vdc
48 48 Vdc
24 24 Vac
115 115 Vac
230 230 Vac
**Includes Std. Coil Nut
† DS, DW or DL terminations only.

E-Coil
10 10 Vdc
12 12 Vdc
20 20 Vdc
24 24 Vdc

Termination (Vdc)
Std. Coil
DS Dual Spades
DG DIN 43650
DL Leadwires (2)
DL/W Leads w/Weatherpak® Connectors
DR Deutsch DT04-2P

Termination (Vac)
Std. Coil
AG DIN 43650
AP 1/2 in. Conduit

Termination (Vdc)
E-Coil
ER Deutsch DT04-2P (IP69K Rated)
EY Metri-Pack® 150 (IP69K Rated)

Coils with internal diode are available. Consult factory.

Model Options

SV08-40E-H-J-L

E Manual Override

CODE	DESCRIPTION
BLANK	NONE
M	Two Position Override, Red Knurled Knob

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
6TD	Ductile Iron SAE 6
3B	Aluminum BSPP 3/8" (3)
3BD	Ductile Iron BSPP 3/8" (3)

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J Seal

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

L Coil

CODE	DESCRIPTION
0	No Coil
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, 18 inches long
10EL/36	10 VDC, E-Coil, Dual Lead Wires, 36 inches long
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
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
12EG/Z	12 VDC, E-Coil, DIN 43650 with Zener Diode
12EJ	12 VDC, E-Coil, AMP Jr.
12EJ/Z	12 VDC, E-Coil, AMP Jr. with Zener Diode
12EL	12 VDC, E-Coil, Dual Lead Wires, 18 inches long
12EL/36	12 VDC, E-Coil, Dual Lead Wires, 36 inches long
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
20DG	20 VDC, D-Coil, DIN 43650
20DS	20 VDC, D-Coil, Dual Spade
20ER	20 VDC, E-Coil, Deutsch
20ER/Z	20 VDC, E-Coil, Deutsch with Zener Diode
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, 18 inches long
24DL/36	24 VDC, D-Coil, Dual Lead Wires, 36 inches long
24DL/W	24 VDC, D-Coil, Dual Lead Wires with Weatherpak

SOLENOID CARTRIDGE VALVE SPOOL, 4 PORT, 2 POSITION

CODE	DESCRIPTION
24DR	24 VDC, D-Coil, Deutsch
24DR/D	24 VDC, D-Coil, Deutsch with Diode
24DR/Z	24 VDC, D-Coil, Deutsch with Zener Diode
24DS	24 VDC, D-Coil, Dual Spade
24EG	24 VDC, E-Coil, DIN 43650
24EG/Z	24 VDC, E-Coil, DIN 43650 with Zener Diode
24EJ	24 VDC, E-Coil, AMP Jr.
24EL/D	24 VDC, E-Coil, Dual Lead Wires with 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
36DG	36 VDC, D-Coil, DIN 43650
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
230AP	230 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires