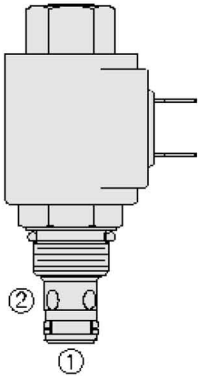


Part number:

SF08-23

SOLENOID VALVE POPPET, 2 WAY, NORMALLY OPEN

Overview



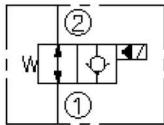
Description

Solenoid-operated, 2 way, normally open, poppet-type, screw in hydraulic cartridge valve, designed to function as a load holding or blocking valve in applications requiring low internal leakage at high pressure. When de-energized, the SF08-23 poppet lifts to open from port 2 to port 1. In this mode, flow is also allowed from port 1 to port 2. When energized, the cartridge acts as a check valve, blocking flow from port 2 to port 1 after overcoming the solenoid force (requires 50 to 150 psi [3,4 to 10,3 bar]).

Features

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

Symbol



Ratings

Pressure Ratings

Pressure rating 350 bar (5000 psi)

Flow Ratings

Flow rating See performance chart
Maximum internal leakage 3 drops/min - **Note:** Max at 350 bar (5000 psi)

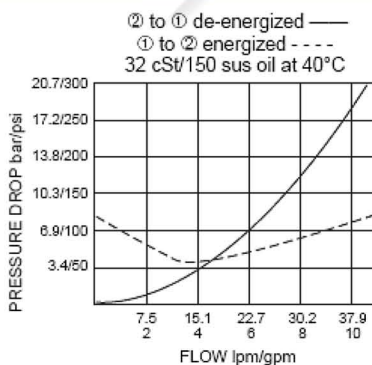
Temperature Ratings

Operating fluid temperature -40 to 100 °C (-40 to 212 °F) - **Note:** Buna N
-26 to 204 °C (-15 to 400 °F) - **Note:** Viton
-54 to 107 °C (-65 to 225 °F) - **Note:** Polyurethane

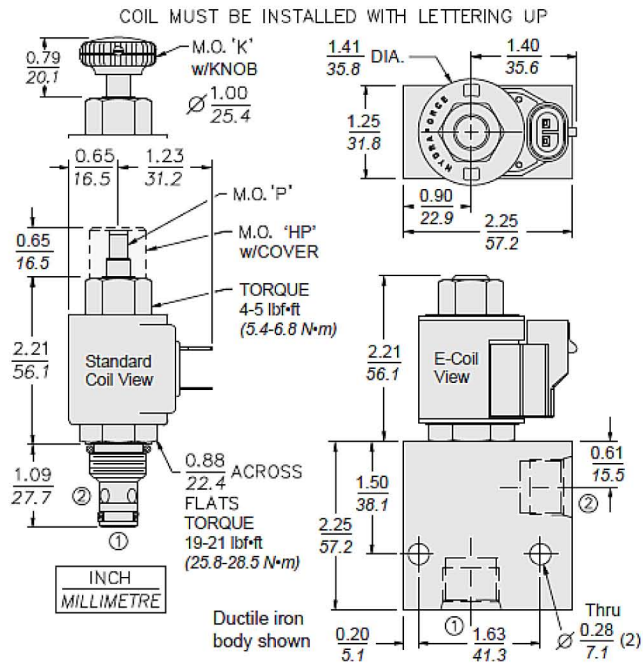
Properties

Materials Steel with hardened work surfaces exposed surfaces plated per hf spec plt033 for 960 hours of salt spray per ASTM b117-09 before corrosion (red rust)

Performance



Dimensions



Order Code

Option		Voltage Std. Coil		Termination (VDC) Std. Coil	
None (Blank)		0	Less Coil**	DS	Dual Spades
152µ Screen	S	10	10 VDC†	DG	DIN 43650
Manual Override	P	12	12 VDC	DL	Leadwires (2)
Manual Override with Cover	HP	24	24 VDC	DL/W	Leads w/Weatherpak® Connectors
Manual Override with Knob	K	36	36 VDC	DR	Deutsch DT04-2P
Porting		48	48 VDC	Termination (VAC) Std. Coil	
Cartridge Only	0	24	24 VAC	AG	DIN 43650
Aluminum		115	115 VAC	AP	1/2 in. Conduit
SAE 8	8T	230	230 VAC	Termination (VDC) E-Coil	
3/8 in. BSP*	3B	**Includes Std. Coil Nut		ER	Deutsch DT04-2P (IP69K Rated)
Ductile Iron		†DS, DW or DL terminations only		EY	Metri-Pack® 150 (IP69K Rated)
SAE 8	8TD	E-Coil		Coils with internal diode are available. Consult factory.	
3/8 in. BSP*	3BD	10	10 VDC		
Seals		12	12 VDC		
Polyurethane (Std.)	P	20	20 VDC		
		24	24 VDC		

Model Options

SF08-23EG-H-J-L

E Manual Override

CODE	DESCRIPTION
BLANK	NONE
HP	Momentary Push Override, Button with Protective Nut
K	Momentary Push Override, Knob
P	Momentary Push Override, Button

G Screen

CODE	DESCRIPTION
BLANK	NONE
S	100 Mesh Screen

H Line Body

CODE	DESCRIPTION
0	No Body
4T	Aluminum SAE 4
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6
8TD	Ductile Iron SAE 8
2B	Aluminum BSPP 1/4" (2)
3B	Aluminum BSPP 3/8" (3)
3BD	Ductile Iron BSPP 3/8" (3)

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
P	Polyurethane

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

CODE	DESCRIPTION
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
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