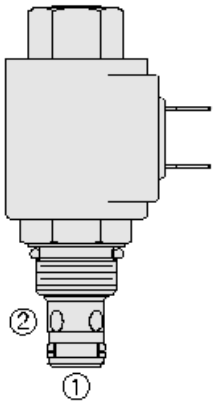




Overview



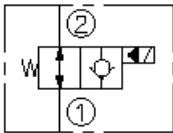
Description

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)

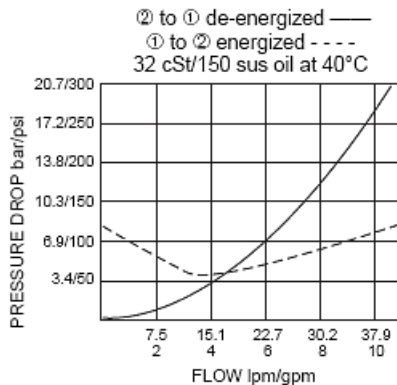
Temperature Ratings

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

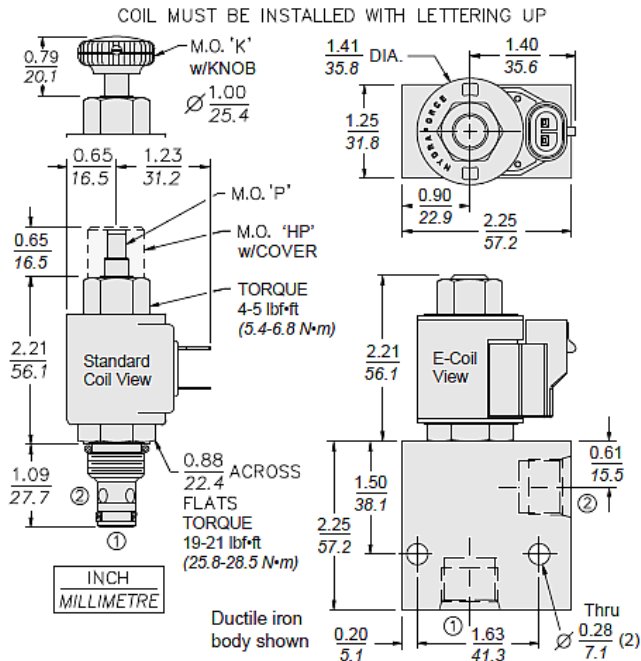
Materials Steel with hardened work surfaces exposed surfaces plated per hf spec plt033 for 960 hours of salt spray per ASTM b117-09 before corrosion (red rust)

Performance





Dimensions



Materials

Materials

Cartridge: Weight: 0.09 kg (0.20 lb); Steel with hardened work surfaces. Zinc-plated exposed surfaces; Polyurethane cast O-rings and fluorocarbon back-up standard.

Standard Ported Body: Weight: 0.54 kg (1.2 lb); Ductile iron standard, rated to 345 bar (5000 psi).

Standard D-Coil: Weight each: 0.11 kg (0.25 lb); Unitized thermoplastic encapsulated, Class H high temperature magnet wire.

E-Coil: Weight: 0.14 kg (0.3 lb); Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with integral connectors.

Order Code

SF08-23		-	-	-	-	-
Option						
None (Blank)						
152µ Screen	S					
Manual Override	P					
Manual Override with Cover	HP					
Manual Override with Knob	K					
Porting						
Cartridge Only	0					
Aluminum						
SAE 8	8T					
3/8 in. BSP*	3B					
Ductile Iron						
SAE 8	8TD					
3/8 in. BSP*	3BD					
*BSP Body; U.K. Mtr. Only						
Seals						
Polyurethane (Std.)	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.						

POSITION	CODE	DESCRIPTION
		SF08-23EG-H-J-L
E		Manual Override
E	BLANK	NONE
E	HP	Momentary Push Override, Button with Protective Nut
E	K	Momentary Push Override, Knob
E	P	Momentary Push Override, Button
G		Screen



POSITION	CODE	DESCRIPTION
G	BLANK	NONE
G	S	100 Mesh Screen
H		Line Body
H	0	No Body
H	4T	Aluminum SAE 4
H	6T	Aluminum SAE 6
H	8T	Aluminum SAE 8
H	6TD	Ductile Iron SAE 6
H	8TD	Ductile Iron SAE 8
H	2B	Aluminum BSPP 1/4" (2)
H	3B	Aluminum BSPP 3/8" (3)
H	3BD	Ductile Iron BSPP 3/8" (3)
J		Seal
J	N	Buna-N
J	V	Fluorocarbon
J	P	Polyurethane
L		Coil
L	0	No Coil
L	10DL	10 VDC, D-Coil, Dual Lead Wires
L	10DR/D	10 VDC, D-Coil, Deutsch with Diode
L	10DS	10 VDC, D-Coil, Dual Spade
L	10EL	10 VDC, E-Coil, Dual Lead Wires, 18 inches long
L	10EL/36	10 VDC, E-Coil, Dual Lead Wires, 36 inches long
L	10ER	10 VDC, E-Coil, Deutsch
L	10ER/Z	10 VDC, E-Coil, Deutsch with Zener Diode
L	12DG	12 VDC, D-Coil, DIN 43650
L	12DL	12 VDC, D-Coil, Dual Lead Wires, 18 inches long
L	12DL/36	12 VDC, D-Coil, Dual Lead Wires, 36 inches long
L	12DL/W	12 VDC, D-Coil, Dual Lead Wires with Weatherpak
L	12DL/W/D	12 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode
L	12DR	12 VDC, D-Coil, Deutsch
L	12DR/D	12 VDC, D-Coil, Deutsch with Diode
L	12DR/Z	12 VDC, D-Coil, Deutsch with Zener Diode
L	12DS	12 VDC, D-Coil, Dual Spade
L	12EG	12 VDC, E-Coil, DIN 43650
L	12EG/Z	12 VDC, E-Coil, DIN 43650 with Zener Diode
L	12EJ	12 VDC, E-Coil, AMP Jr.
L	12EJ/Z	12 VDC, E-Coil, AMP Jr. with Zener Diode
L	12EL	12 VDC, E-Coil, Dual Lead Wires, 18 inches long
L	12EL/36	12 VDC, E-Coil, Dual Lead Wires, 36 inches long
L	12EL/Z	12 VDC, E-Coil, Dual Lead Wires with Zener Diode
L	12ER	12 VDC, E-Coil, Deutsch
L	12ER/Z	12 VDC, E-Coil, Deutsch with Zener Diode



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