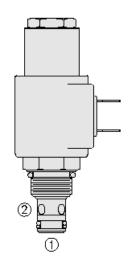


Overview



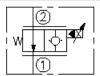
Description

A solenoid-operated, 2 port, normally open, poppet type proportional, screw in hydraulic cartridge valve designed for low leakage in load-holding applications. When deengergized, the SP08-21 allows flow from 2 to 1. Flow from 1 to 2 is severely restricted. When the valve is partially energized (see performance curve) the valve begins to throttle flow from 2 to 1. When fully energized, the valves poppet closes on the seat, blocking flow from 2 to 1. The cartridge will allow 1 to 2 flow after overcoming the solenoid force.

Features

- · Continuous-duty rated coil.
- · Efficient wet-armature construction.
- Optional waterproof E-Coils rated up to IP69K.
- Industry common cavity.
- · Compact size.

Symbol



Ratings

Pressure Ratings

207 bar (3000 psi) Pressure rating

Flow Ratings

- Note: At 207 bar (3000 psi) 5 drops/min 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) -54 to 107 °C (-65 to 225 °F) - Note: With viton seals

- Note: With polyurethane seals

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

Properties

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

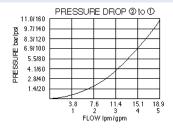
Electrical Parameters

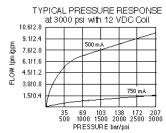
Dither PWM frequency 70 Hz - Note: Minimum

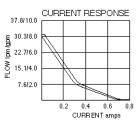
SP08-21 25SEP2024 16:41 hydraforce.com



Performance

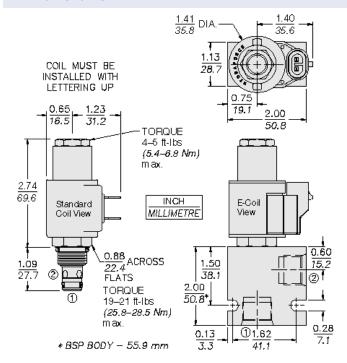






Note: Electronic Controller is required to ramp current.

Dimensions



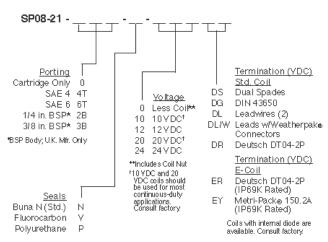
Installation Specifications

Cartridge installation torque Coil nut torque 25.8 to 28.5 N-m (19 to 21 ft-lb) 5.4 to 6.8 N-m (4 to 5 ft-lb)

Order Code

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Model Options

SP08-21E-H-J-L

E Manual Override

CODE	DESCRIPTION
BLANK	NONE
K	Momentary Push Override, Knob
Р	Momentary Push Override, Button

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
Р	Polyurethane
U	PPDI Urethane

L Coil

CODE	DESCRIPTION
0	No Coil
10DL	10 VDC, D-Coil, Dual Lead Wires
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
12DG	12 VDC, D-Coil, DIN 43650

hydraforce.com 25SEP2024 16:41 SP08-21



CODE DESCRIPTION

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
12DR	12 VDC, D-Coil, Deutsch
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
12ER	12 VDC, E-Coil, Deutsch
12EY	12 VDC, E-Coil, Metri-Pack 150
20DG	20 VDC, D-Coil, DIN 43650
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, 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
24DS	24 VDC, D-Coil, Dual Spade
24EG	24 VDC, E-Coil, DIN 43650
24EJ	24 VDC, E-Coil, AMP Jr.
24ER	24 VDC, E-Coil, Deutsch
24EY	24 VDC, E-Coil, Metri-Pack 150
36DG	36 VDC, D-Coil, DIN 43650
36DS	36 VDC, D-Coil, Dual Spade

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