



2.15

30SD08-47D TYPE

Solenoid Directional Valve

Rated pressure (bar / psi) 207 / 3000
 Peak flow (L/min / gpm) 11.4 / 3

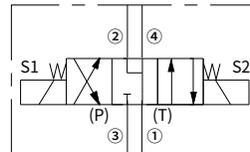
Features

- Continuous-duty rated coil
- Efficient wet-armature construction
- Cartridges are voltage interchangeable
- Optional waterproof E-Coils rated up to IP69K
- Hardened parts for long life

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Symbol



Description

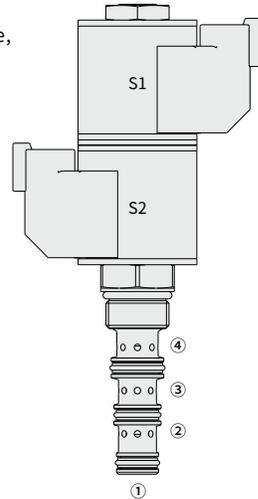
A solenoid-operated, 4-way, 3-position, direct-acting, spool-type, screw-in hydraulic cartridge valve.

Operation

When de-energized, the valve blocks flow to ③, while allowing flow from ② to ①, and from ④ to ①. When coil #1(S1) is energized, flow is allowed from ③ to ④, and from ② to ①. When coil #2(S2) is energized, flow is allowed from ③ to ②, and from ④ to ①.

In circuits where work port flows are unequal due to cylinder ratios, the higher return flow should be directed to port ②.

While ① may be fully pressurized, it is not intended for use as the valve's inlet.



Ordering Code

30SD08-47D

Option:

None

Blank

Cartridge only

0

Seals:

Polyurethane (Std.)

Buna N

Fluorocarbon

P

N

V

Voltage

Std. Coil:

Less Coil 00

10VDC 10

12VDC 12

20VDC 20

24VDC 24

Termination (VDC)

E-Coil:

Deutsch DT04-2P

(IP69K Rated)

Lead wires (2)

(IP69K Rated)

Termination (VDC)

D-Coil:

Dual Spades

(SAE J858a, IP65K Rated)

DIN 43650

(IP65K Rated)

Lead wires (2)

(IP65K Rated)

ER

EL

DS

DG

DL

Materials

Cartridge:

Weight: 0.14 kg; Steel with hardened work surfaces. Zinc-plated exposed surfaces; Polyurethane (Std.) seal.

Standard Ported Body:

Anodized high-strength aluminum alloy, rated to 240 bar; Ductile iron and steel bodies available; Dimensions may differ, consult factory.

Standard Coil: Consult factory.

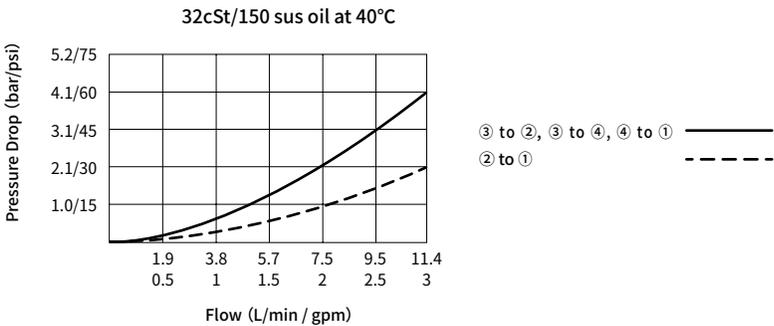
E-Coil:

Weight: 0.14 kg; Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with Deutsch sockets.

Technical Data

Rated pressure	207 bar (3000 psi)	
Peak flow	11.4 L/min (3 gpm)	
Internal leakage	≤ 164 mL/min@207 bar	
Coil duty rating	Continuous from 85% to 115% of nominal voltage	
Initial coil current draw at 20°C	E-Coil	1.4 A at 12VDC; 0.7 A at 24VDC
	D-Coil	1.2 A at 12VDC; 0.6 A at 24VDC
Minimum pull-in voltage	85% of nominal at 207 bar	
Cavity	VC08-4 (See technical reference)	
Fluid	Mineral-based or synthetics with lubricating properties	
Viscosity range	7.4 to 420 mm ² /s	
Temperature range	-54 to 107 °C (Polyurethane seals)	
	-40 to 100 °C (Buna N seals)	
	-26 to 204 °C (Fluorocarbon seals)	
Degree of fluid contamination	The minimum pollution level is ISO4406 level 20/18/14, and level 17/15/13 is recommended to prolong the service life	

Performance (Cartridge Only)



Dimensions

(Dimensions in mm)

