



2.12

30SD08-40 TYPE

Solenoid Directional Valve

Rated pressure (bar / psi)	207 / 3000
Peak flow (L/min / gpm)	See performance chart

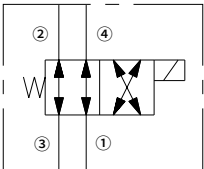
Features

- 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

Contents

Description	02
Operation	02
Ordering code	02
Materials	02
Technical data	03
Performance	03
Dimensions	04

Symbol

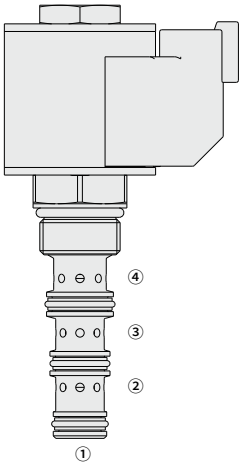


Description

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

Operation

When de-energized, the 30SD08-40 flow paths are ③ to ② and ④ to ① .
When energized, the valve's spool shifts to open ③ to ④ and ② to ① .
All ports are open at cross-over.



Ordering Code

30SD08-40		-	-	-	-	-	-	-	-
Option:		Blank							
None									
Cartridge only		0							
Seals:									
Polyurethane (Std.)									
Buna N									
Fluorocarbon									
Voltage									
Std. Coil:									
Less Coil									
10VDC									
12VDC									
20VDC									
24VDC									
Termination (VDC)									
E-Coil:									
Deutsch DT04-2P									ER
(IP69K Rated)									
Lead wires (2)									EL
(IP69K Rated)									
Termination (VDC)									
D-Coil:									
Dual Spades									DS
(SAE J858a, IP65K Rated)									
DIN 43650									DG
(IP65K Rated)									
Lead wires (2)									DL
(IP65K Rated)									

Materials

Cartridge:

Weight: 0.13 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.

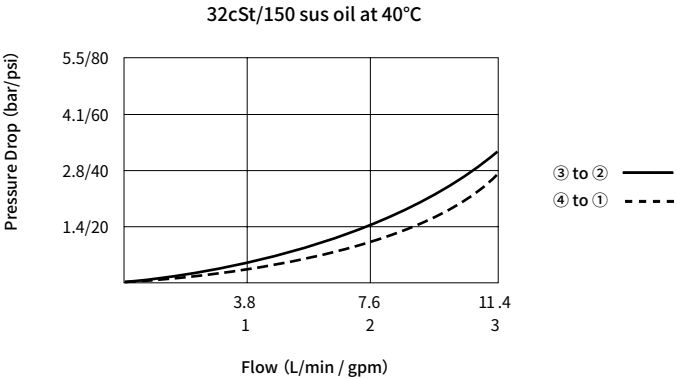
E-Coil:

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		See performance chart
Internal leakage		≤ 82 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)

