



2.22

30SD10-25 TYPE

Solenoid Directional Valve

Rated pressure (bar / psi)	207 / 3000
Peak flow (L/min / gpm)	Inlet at port ①: 18.9 / 5 Inlet at port ②: 22.7 / 6

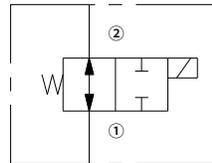
Features

- Continuous-duty rated coil
- Both ports may be fully pressurized
- Efficient wet-armature construction
- Cartridges are voltage interchangeable
- Optional waterproof E-Coils rated up to IP69K
- Industry common cavity
- Hardened parts for long life and low leakage

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Symbol



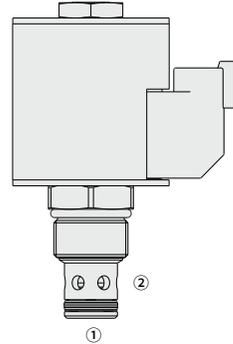
Description

A solenoid-operated, 2-way, normally closed, direct-acting, spool-type, screw-in hydraulic cartridge valve, designed to operate as a bidirectional blocking valve.

Operation

When de-energized, the 30SD10-25 allows flow in both directions.

When energized, the cartridge's spool shifts to close the bidirectional flow path.



Ordering Code

30SD10-25		-	-	-	-	-	-	-	-
Option:	Blank								
Cartridge only	0								
Seals:	Buna N (Std.)		N						
	Polyurethane		P						
	Fluorocarbon		V						
Voltage Std. Coil:	Less Coil	00							
	10VDC	10							
	12VDC	12							
	20VDC	20							
	24VDC	24							
Termination (VDC)	E-Coil:								
	Amp Junior Timer (IP67 Rated)							EJ	
	Deutsch DT04-2P (IP69K Rated)							ER	
	DIN 43650 (IP65 Rated)							EG	
	Termination (VDC)								
	D-Coil:								
	Dual Spades (SAE J858a, IP65K Rated)							DS	

Materials

Cartridge:

Weight: 0.17 kg ; Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N (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.

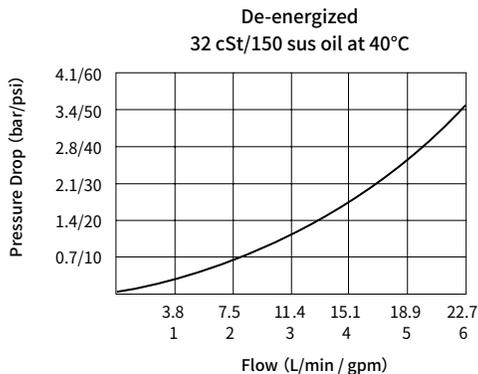
E-Coil:

Weight: 0.41 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)	
Proof pressure	350 bar (5075 psi)	
Peak flow	Inlet at port ① : 18.9 L/min (5 gpm) Inlet at port ② : 22.7 L/min (6 gpm)	
Internal leakage	≤ 82 mL/min @207 bar	
Coil duty rating	Continuous from 85% to 115% of nominal voltage	
Response time	First indication of change of state with 100% voltage supplied at 80% of nominal flow rating: Energized 60 msec.; De-energized 60 msec.	
Initial coil current draw at 20°C	E-Coil	1.7 A at 12VDC; 0.85 A at 24VDC
	D-Coil	1.67 A at 12VDC; 0.83 A at 24VDC
Minimum pull-in voltage	85% of nominal at 207 bar	
Cavity	VC10-2 (See technical reference)	
Fluid	Mineral-based or synthetics with lubricating properties	
Viscosity range	7.4 to 420 mm ² /s	
Temperature range	-40 to 100 °C (Buna N seals)	
	-54 to 107 °C (Polyurethane 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)

