



2.27

30SD10-42 TYPE

Solenoid Directional Valve

Rated pressure (bar / psi) 207 / 3000
 Peak flow (L/min / gpm) 22.7 / 6 (See performance chart)

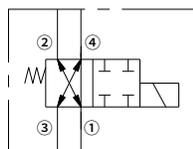
Features

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

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Symbol



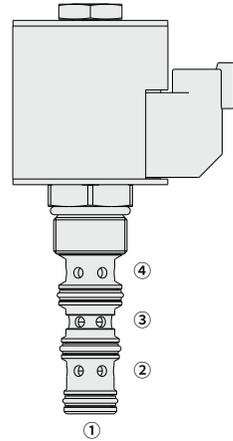
Description

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

Operation

When de-energized, the valve allows flow from ③ to ④, as well as from ② to ①.

When energized, the spool shifts to block flow at all ports.



Ordering Code

	30SD10-42	-	-	-	-	-	-	-	-
Option:	Blank								
None									
Cartridge only	0								
Seals:									
Polyurethane (Std.)				P					
Buna N				N					
Fluorocarbon				V					
Voltage Std. Coil:									
Less Coil					00				
10VDC					10				
12VDC					12				
20VDC					20				
24VDC					24				
Termination (VDC)									
E-Coil:									
Amp Junior Timer								EJ	
(IP67 Rated)									
Deutsch DT04-2P								ER	
(IP69K Rated)									
DIN 43650								EG	
(IP65 Rated)									
Termination (VDC)									
D-Coil:									
Dual Spades								DS	
(SAE J858a, IP65K Rated)									

Materials

Cartridge:

Weight: 0.18 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.

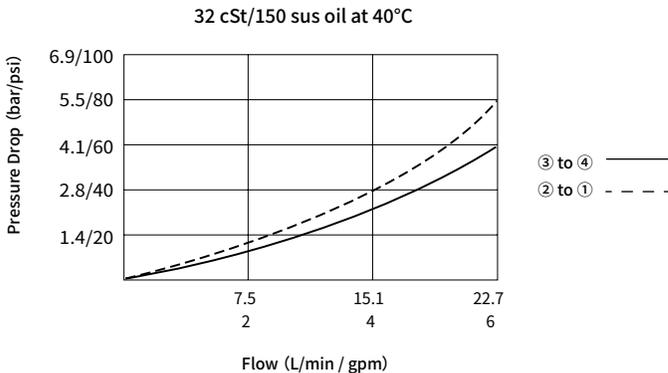
E-Coil:

Weight: 0.41 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)	
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	1.7 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	VC10-4 (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)

