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50SD58-35 TYPE

Solenoid Directional Valve

Rated pressure (bar / psi) 345 / 5000
Peak flow (L/min / gpm) 11.4 / 3 (See performance chart)

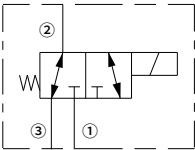
Features

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

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Symbol



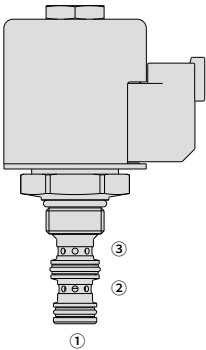
Description

A solenoid-operated, 3-way,2-position,direct-acting,spool-type,screw-in hydraulic directional valve designed for high pressure operation up to 345 bar(5000psi).

Operation

When de-energized, the valve allows flow from ② to ③ while blocking flow at ① .
When energized, the cartridge's spool shifts to open from ② to ① ,while blocking flow out ③ .

Note:Port ① must be connected to tank.Valve cannot withstand more than 276 bar(4000psi)at the inlet of port ① .



Ordering Code

50SD58-35					
Option: None Blank					
Porting: 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 28VDC 28					
Termination (VDC) E-Coil: Amp Junior Timer EJ (IP67 Rated) Deusch DT04-2P ER (IP69K Rated) DIN 43650 EG (IP65 Rated)					
Termination (VDC) D-Coil: Dual Spades DS (SAE J858a, IP65K Rated)					

Materials

Cartridge:
Weight: 0.2 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.

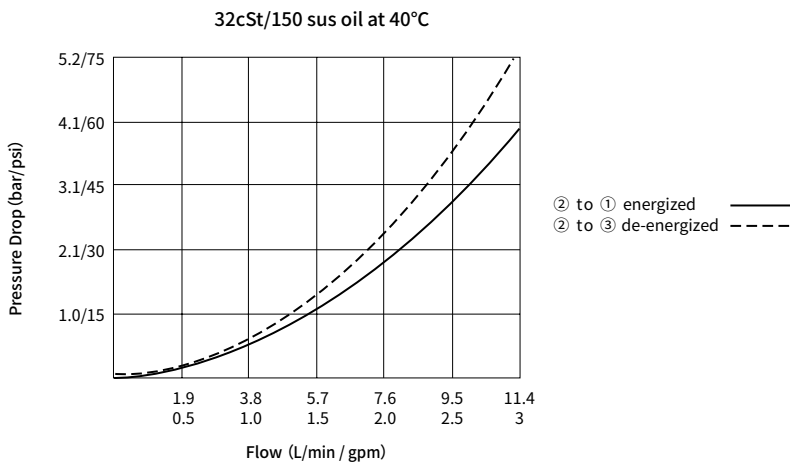
Standard Coil: Consult factory.

E-Coil:
Weight: 0.4 kg; Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with Deutsch sockets.

Technical Data

Rated pressure	345 bar (5000 psi)	
Peak flow	See performance chart	
Internal leakage	≤ 140 mL/min @345 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 83VDC
Minimum pull-in voltage	85% of nominal at 207 bar	
Cavity	VC08-3 (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 18/16/13, and level 15/13/11 is recommended to prolong the service life	

Performance (Cartridge Only)



Dimensions

01

