

2.41

50SD58-30 TYPE Solenoid Directional Valve

Rated pressure (bar / psi) 345 / 5000

Peak flow (L/min / gpm) 15.1 / 4 (See performance chart

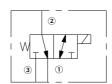
Features

- · 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

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Symbol



Description

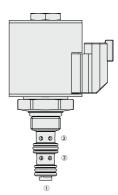
A solenoid-operated, 3-way, 2-position, direct-acting, spool-type, screw-in hydraulic directional valve designed for high pressure operation up to 345 bar (5000 psi).

Operation

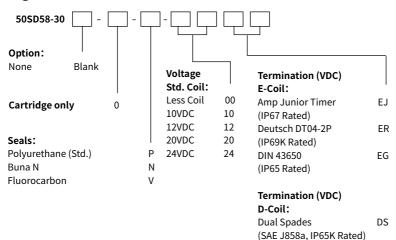
When de-energized, the valve allows flow from ② to ① while blocking flow at ③ .

When energized, the cartridge's spool shifts to open from $\centebegre{3}$ to $\centebegre{2}$, while blocking flow out $\centebegre{3}$.

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



Ordering Code



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.

F-Coil

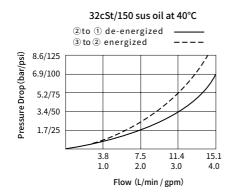
Weight: 0.41 kg; Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with Deutsch sockets.

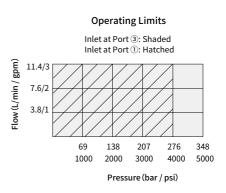
03/04

Technical Data

Rated pressure		345 bar (5000 psi)	
Peak flow		See performance chart	
Internal leakage		Port ③ (De-energized): ≤ 131 mL/min@345 bar	
		Port ① (Energized): ≤ 279 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 24VDC	
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		-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 18/16/13, and level 15/13/11 is recommended to prolong the service life	

Performance (Cartridge Only)





Dimensions

