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30SD10-34 TYPE Solenoid Directional Valve

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

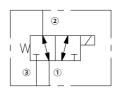
Features

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

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Symbol



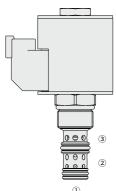
Description

A solenoid-operated, 3-way, direct-acting, spool-type, screw-in hydraulic cartridge valve.

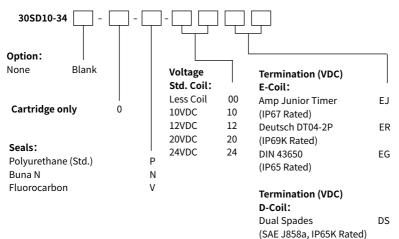
Operation

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

When energized, the valve's spool shifts to open from ② to ③, while blocking at 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.

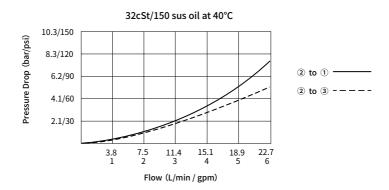
E-Coil:

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		22.7 L/min (6 gpm)	
Internal leakage		≤ 115 mL/min (7 cu. in./minute) @ 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: 10 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		VC10-3 (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 20/18/14, and level 17/15/13 is recommended to prolong the service life	

Performance (Cartridge Only)



Dimensions

(Dimensions in mm)

