

30SD08-21 TYPE Solenoid Directional Valve

Rated pressure (bar / psi) Peak flow (L/min / gpm)

207 / 3000 30 / 8 (See performance chart

Features

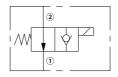
- · Continuous-duty rated coil
- · Efficient wet-armature construction
- · Cartridges are voltage interchangeable
- Optional waterproof E-Coils rated up to IP69K
- ·Industry common cavity
- Hardened parts for long life and low leakage

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Symbol

2.4



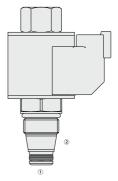
Description

A solenoid-operated, 2-way, piloted, poppet-type, normally open, screw-in, hydraulic cartridge valve designed for low leakage in load-holding applications.

Operation

When de-energized, the valve allows flow from (2) to (1). Flow from (1) to (2) is severely restricted in this mode. When energized, the valve's poppet closes on its seat, blocking flow from (2) to (1).

In this mode the cartridge will allow ① to ② flow after overcoming the solenoid force (requires 3.4 to 10.3 bar[50 to 150 psi]).



Ordering Code 30SD08-21 Option: Voltage Termination (VDC) None Blank Std. Coil: E-Coil: 150µ Screen S Less Coil 00 Deutsch DT04-2P ER 10VDC 10 (IP69K Rated) **Cartridge Only** 0 12VDC 12 EL Lead wires (2) 20VDC 20 (IP69K Rated) 24VDC 24 Seals: Buna N (Std.) Ν Termination (VDC) Polyurethane Ρ D-Coil: Fluorocarbon V Dual Spades DS (SAE J858a, IP65K Rated) DIN 43650 DG (IP65K Rated) Lead wires (2) DI Materials (IP65K Rated)

Cartridge:

Weight: 0.12 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.

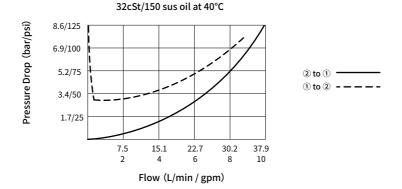
E-Coil:

Weight: 0.14 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		≤ 0.15 mL/min (3 drops/min) @207 bar	
Coil duty rating		Continuous from 85% to 115% of nominal voltage	
Initial coil current draw at 20°C	E-Coil	1.4 A at 12VDC; 0.7 A at 24VDC	
	D-Coil	1.2 A at 12VDC; 0.6 A at 24VDC	
Minimum pull-in v	oltage	85% of nominal at 207 bar	
Cavity		VC08-2 (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)



