



2.9

30SD08-31 TYPE

Solenoid Directional Valve

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

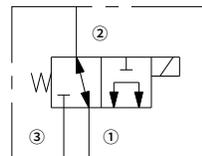
Features

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

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Symbol



Description

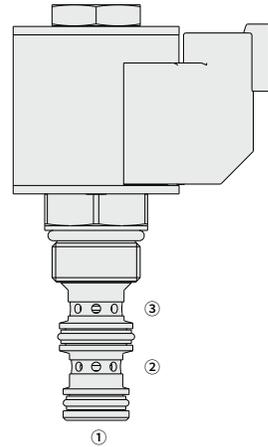
A solenoid-operated, 3-way, direct-acting, spool-type, screw-in hydraulic cartridge valve.

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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 ① to ③, while blocking flow at ②.



Ordering Code

30SD08-31		-	-	-	-	-	-	-	-
Option:	None	Blank							
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:			
						Deutsch DT04-2P		ER	
						(IP69K Rated)			
						Lead wires (2)		EL	
						(IP69K Rated)			
						Termination (VDC)			
						D-Coil:			
						Dual Spades		DS	
						(SAE J858a, IP65K Rated)			
						DIN 43650		DG	
						(IP65K Rated)			
						Lead wires (2)		DL	
						(IP65K Rated)			

Materials

Cartridge:

Weight: 0.11 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.

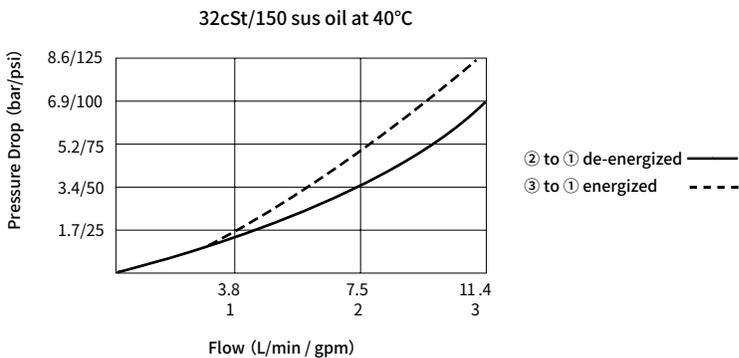
E-Coil:

Weight: 0.14 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	≤ 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	1.4 A at 12VDC; 0.7 A at 24VDC
	D-Coil	1.2 A at 12VDC; 0.6 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 20/18/14, and level 17/15/13 is recommended to prolong the service life	

Performance (Cartridge Only)



Dimensions

(Dimensions in mm)

