

2.10

# 30SD08-33 TYPE Solenoid Directional Valve

Rated pressure (bar / psi)

207 / 3000

Peak flow (L/min / gpm)

11.4 / 3 (See performance chart)

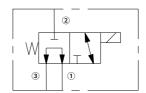
## **Features**

- · 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



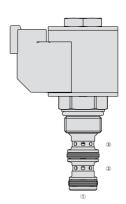
## Description

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

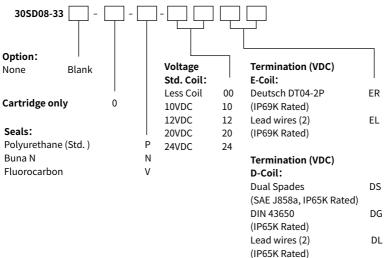
## Operation

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

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



## **Ordering Code**



### **Materials**

#### Cartridge:

Weight: 0.12 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.

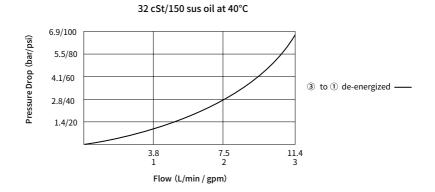
#### F-Coil

Weight: 0.14 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		11.4 L/min (3 gpm)	
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 <sup>2</sup> /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**

