

2.29

# **30SD10-44** TYPE Solenoid Directional Valve

Rated pressure (bar / psi)	207 / 3000
Peak flow (L/min / gpm)	23 / 6

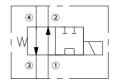
## Features

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

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# Symbol



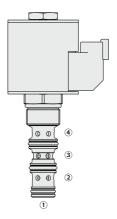
## Description

A solenoid-operated, 4-way, 2-position, direct-acting, spool-type, screw-in hydraulic cartridge valve.

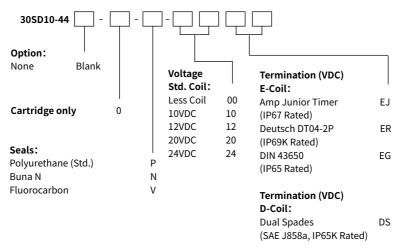
## Operation

When de-energized, the valve allows flow from (3) to (4) , as well as from (2) to (1) .

When energized, the cartridge's spool shifts to open 3 to 1 while blocking 4 and 2 .



# **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.

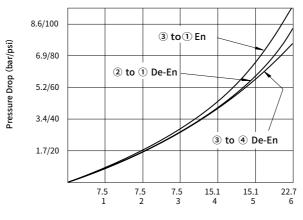
#### E-Coil:

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)
Peak flow		23 L/min (6 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	1.7 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		VC10-4 (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)



#### 32 cSt/150 sus oil at 40°C

Flow (L/min/gpm)

# Dimensions

(Dimensions in mm)

