



2.42

30SD38-28 TYPE

Solenoid Directional Valve

Rated pressure (bar / psi) 207 / 3000

Peak flow (L/min / gpm) 18.9 / 5 (See performance chart)

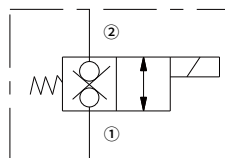
Features

- 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

Contents

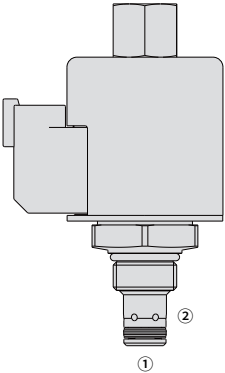
Description	02
Operation	02
Ordering code	02
Materials	02
Technical data	03
Performance	03
Dimensions	04

Symbol



Description

A solenoid-operated, 2-way, normally closed, poppet-type, bi-directional blocking, screw-in hydraulic cartridge valve. It is designed for low leakage in load-holding applications.



Operation

When de-energized, the 30SD38-28 blocks flow in both directions.
When energized, the valve's poppet opens on its seat, allowing flow from ② to ① and ① to ② .

Ordering Code

30SD38-28			-		-		-						
Option:													
None		Blank											
Porting													
Cartridge only		0											
Seals:													
Buna N (Std.)		N											
Polyurethane		P											
Fluorocarbon		V											
Voltage													
Std. Coil:													
Less Coil		00											
10VDC		10											
12VDC		12											
20VDC		20											
24VDC		24											
28VDC		28											
Termination (VDC)													
E-Coil:													
Amp Junior Timer		EJ											
(IP67 Rated)													
Deutsch DT04-2P		ER											
(IP69K Rated)													
DIN 43650		EG											
(IP65 Rated)													
Termination (VDC)													
D-Coil:													
Dual Spades		DS											
(SAE J858a, IP65K Rated)													

Materials

Cartridge:

Weight: 0.15 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.

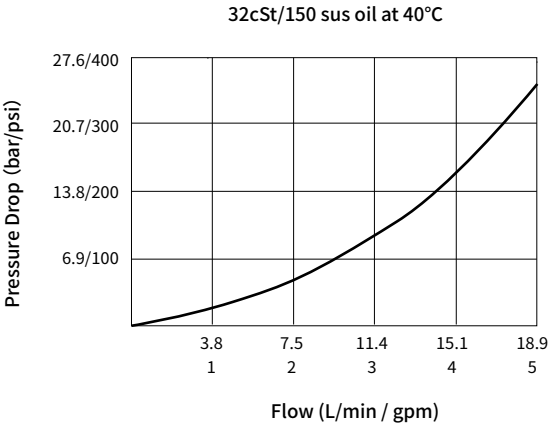
E-Coil:

Weight: 0.41 kg; Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with Deutsch sockets.

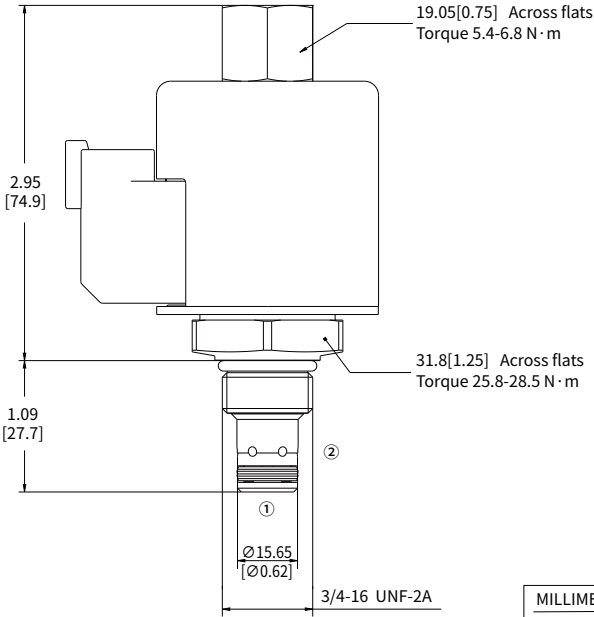
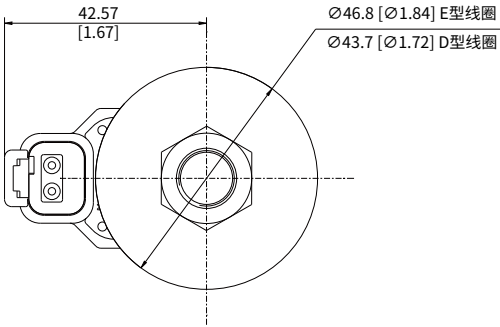
Technical Data

Rated pressure		207 bar (3000 psi)
Peak flow		18.9 L/min (5 gpm)
Internal leakage		≤ 0.25 mL/min (5 drops/min) @207 bar
Coil duty rating		Continuous from 85% to 115% of nominal voltage
Initial coil current draw at 20°C	E-Coil	1.7 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		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



MILLIMETER
[INCH]