



2.40

35SD16-22 TYPE

Solenoid Directional Valve

Rated pressure (bar / psi)	240 / 3500
Peak flow (L/min / gpm)	151.4/ 40 (See performance chart)

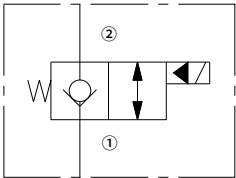
Features

- 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

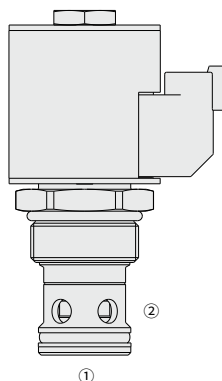
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Symbol



Description

A solenoid-operated, 2-way, normally closed, poppet-type, screw-in hydraulic cartridge valve, designed to function as a load-holding or blocking valve in applications requiring low internal leakage.

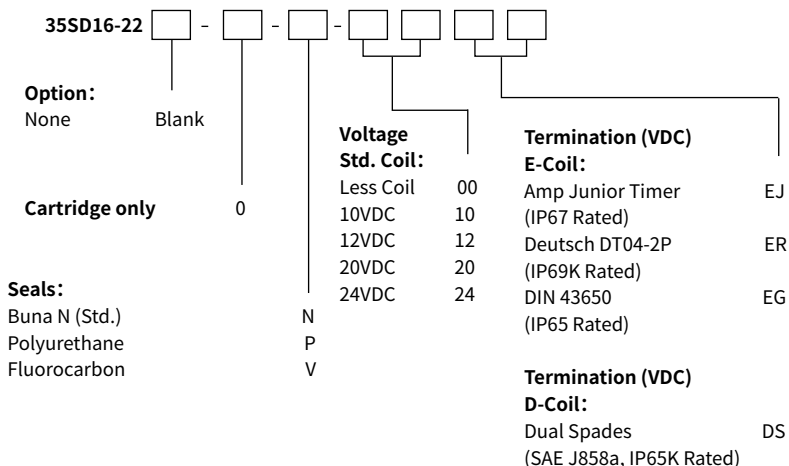


Operation

When de-energized, the 35SD16-22 acts as a check valve, allowing flow from ① to ② , while blocking flow from ② to ① .

When energized, the poppet lifts to open the ② to ① flow path. In this mode, flow is also allowed from ① to ②.

Ordering Code



Materials

Cartridge:

Weight: 0.31 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.

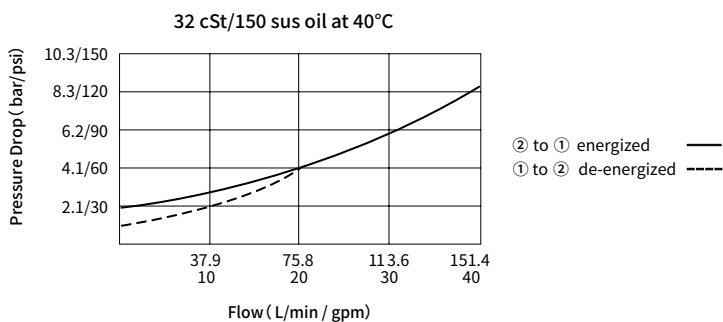
E-Coil:

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

Technical Data

Rated pressure		240 bar (3500 psi)
Peak flow		See performance chart
Internal leakage		≤ 3 drops /min @240 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 240 bar
Cavity		VC16-2 (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

