



2.43

# 35SD12-41 TYPE

## Solenoid Directional Valve

Rated pressure (bar / psi)	240 / 3500
Peak flow (L/min / gpm)	56.8 / 15 (See performance chart)

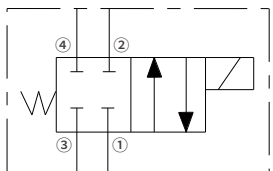
### Features

- 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

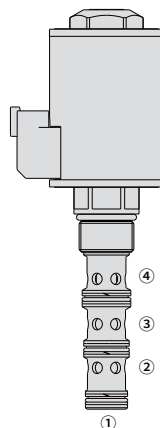
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### Symbol



### Description

A solenoid-operated, 2-position, four-way, direct-acting spool-type, screw-in hydraulic cartridge valve, intended as a bidirectional blocking valve.

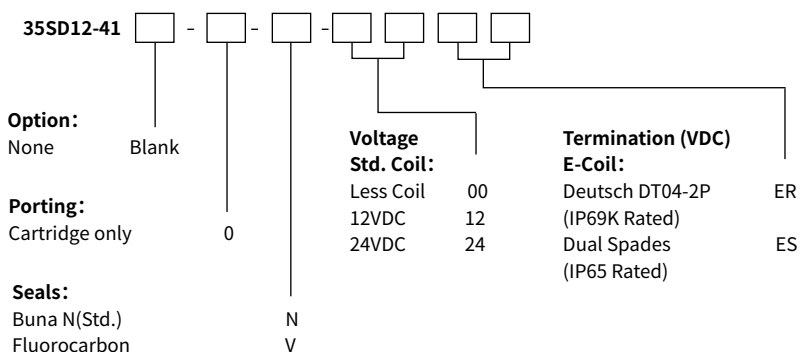


## Operation

When de-energized, the 35SD12-41 blocks flow at all ports.  
When energized, the spool shifts to allow flow from ③ to ④ ,  
and from ② to ① .

**Note:** Consult factory for applications where port 1 will be used as an inlet.

### Ordering Code



## Materials

**Cartridge:**

Weight: 0.39 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.

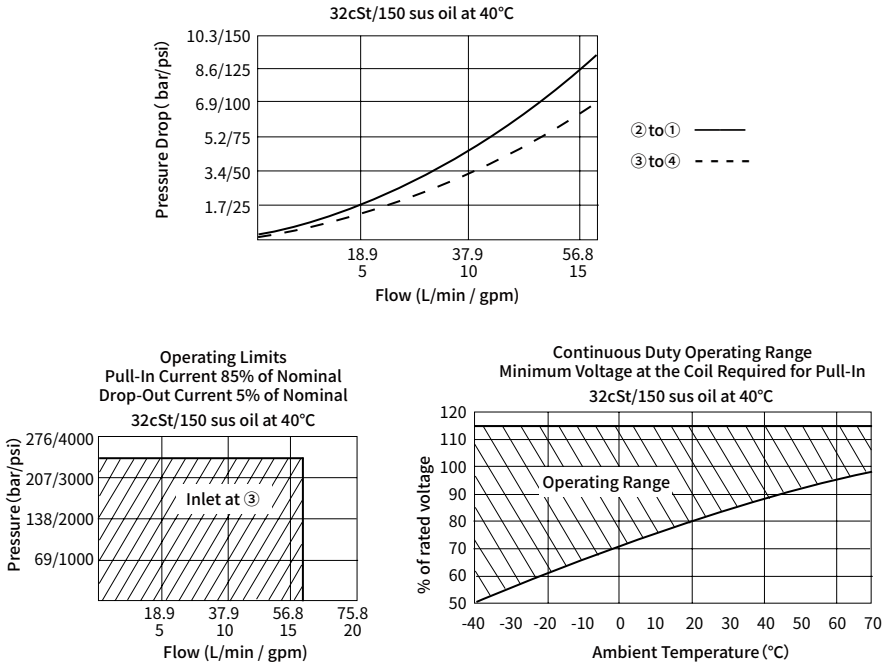
**E-Coil:**

Weight: 1.36 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		≤ 410 ml/min@240 bar
Coil duty rating		See performance chart
Response time (When the voltage is 100% and the flow is 80% of the rated value)		Pull-In: 100 msec; Drop-Out: 100 msec
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		VC12-4 (See technical reference)
Fluid		Mineral-based or synthetics with lubricating properties
Viscosity range		7.4 to 420 mm <sup>2</sup> /s
Temperature range		-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

