

2.34

35SD10-47D TYPE Solenoid Directional Valve

Rated pressure (bar / psi) 240 / Peak flow (L/min / gpm) 23 / 6

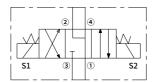
Features

- · 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

Contents

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

Symbol



Description

A solenoid-operated, 4-way, 3-position, direct-acting, spool-type, motor spool, screw-in hydraulic cartridge valve.

Operation

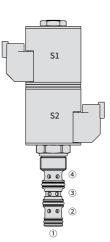
When de-energized, the valve blocks flow to 3 , while allowing flow from 2 to 1 , and from 4 to 1 .

When coil #1(SI) is energized, flow is allowed from 3 to 4 , and from 2 to 1 .

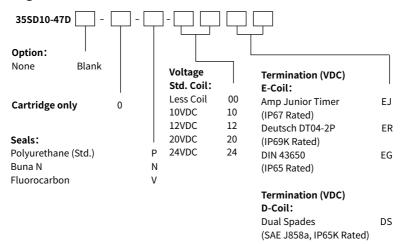
When coil #2(S2) is energized, flow is allowed from 3 to 2 , and from 4 to 1 .

In circuits where work port flows are unequal due to cylinder ratios, the higher return flow should be directed to port ② .

While \odot may be fully pressurized, it is not intended for use as the valve's inlet.



Ordering Code



Materials

Cartridge:

Weight: 0.30 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.

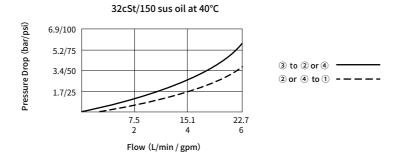
E-Coil:

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

Technical Data

Rated pressure		240 bar (3500 psi)	
Peak flow		23 L/min (6 gpm)	
Internal leakage		≤ 328 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 ² /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

