



2.33

# 35SD10-47C TYPE

## Solenoid Directional Valve

Rated pressure (bar / psi) 240 / 3500

Peak flow (L/min / gpm) 23 / 6

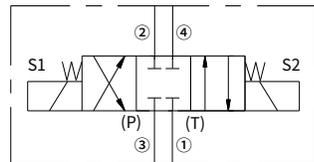
### Features

- 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

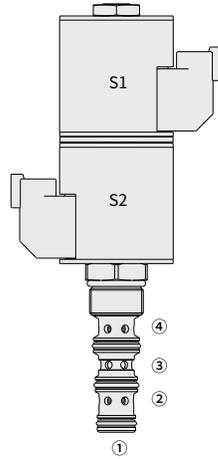
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### Symbol



## Description

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



## Operation

When de-energized, the valve blocks flow to all ports.

When coil #1(S1) 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 ① may be fully pressurized, it is not intended for use as the valve's inlet.

## Ordering Code

35SD10-47C	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>				
<b>Option:</b>	Blank										
None											
<b>Cartridge only</b>	0										
<b>Seals:</b>											
Polyurethane (Std.)				P							
Buna N				N							
Fluorocarbon				V							
<b>Voltage Std. Coil:</b>											
Less Coil	00										
10VDC	10										
12VDC	12										
20VDC	20										
24VDC	24										
<b>Termination (VDC)</b>											
<b>E-Coil:</b>											
Amp Junior Timer (IP67 Rated)	EJ										
Deutsch DT04-2P (IP69K Rated)	ER										
DIN 43650 (IP65 Rated)	EG										
<b>Termination (VDC)</b>											
<b>D-Coil:</b>											
Dual Spades (SAE J858a, IP65K Rated)	DS										

## 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.

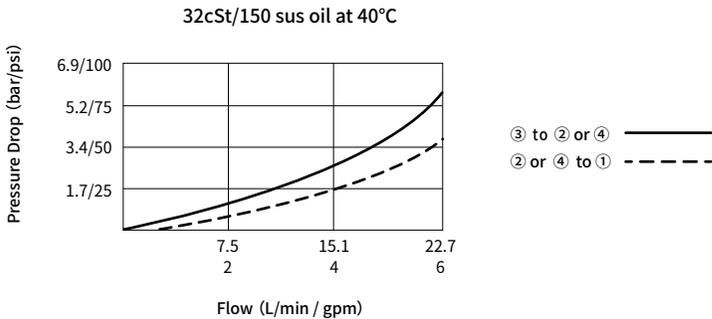
### E-Coil:

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@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	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 18/16/13, and level 15/13/11 is recommended to prolong the service life	

## Performance (Cartridge Only)



# Dimensions

( Dimensions in mm )

