



2.23

35SD10-28 TYPE

Solenoid Directional Valve

Rated pressure (bar / psi) 240 / 3500

Peak flow (L/min / gpm) 75.7 / 20

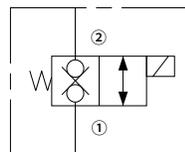
Features

- Continuous-duty rated coil
- Efficient wet-armature construction
- Cartridges are voltage interchangeable
- Optional waterproof E-Coils rated up to IP69K
- Industry common cavity
- Hardened parts for long life and low leakage

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Symbol



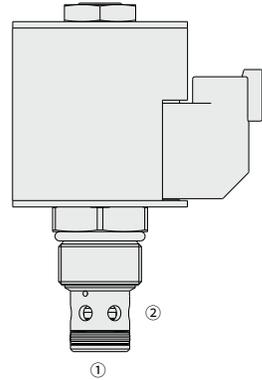
Description

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

Operation

When de-energized, the valve blocks flow in both directions.

When energized, the valve's poppet opens on its seat, allowing flow from ② to ① or ① to ②.



Ordering Code

	35SD10-28	-	-	-	-	-	-	-	-
Option:	Blank								
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			
							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: 0.16 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.

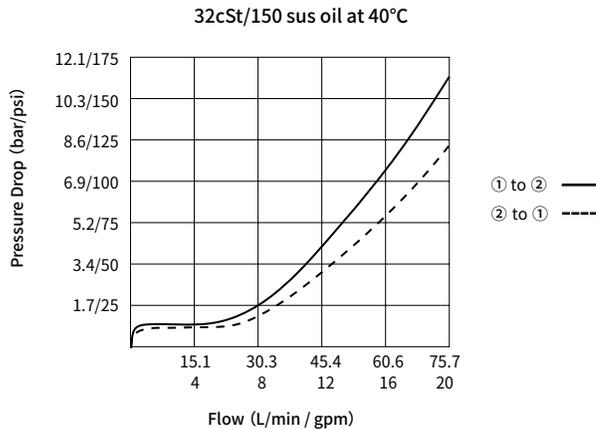
E-Coil:

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	75.7 L/min (20 gpm)	
Internal leakage	≤ 0.25 mL/min (5 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	VC10-2 (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 18/16/13, and level 15/13/11 is recommended to prolong the service life	

Performance (Cartridge Only)



Dimensions

(Dimensions in mm)

