



2.41

35SD10-58C TYPE

Solenoid Directional Valve

Rated pressure (bar / psi) 240 / 3500
 Peak flow (L/min / gpm) 30.3 / 8 (See performance chart)

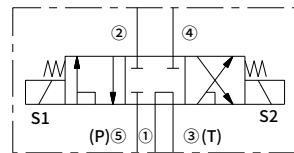
Features

- 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

Contents

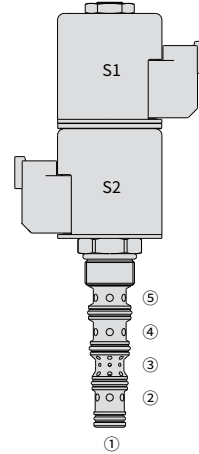
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Symbol



Description

A solenoid-operated, 5-way, 3-position, direct acting, screw-in hydraulic cartridge valve with integral load-sense port.



Operation

When de-energized, the valve blocks flow between all work ports and load sense at port ① is vented to ③ .

When coil 1(S1) is energized, flow is allowed from ⑤ to ② and from ④ to ③ .

When coil 2(S2) is energized, flow is allowed from ⑤ to ④ and from ② to ③ .

Load sense at port ① is connected to port ⑤ when spool is in the shifted positions.

Ordering Code

35SD10-58C		-	-	-	-	-	-	-
Option:	None	Blank						
Cartridge only		0						
Seals:	Polyurethane (Std.)		P					
	Buna N		N					
	Fluorocarbon		V					
				Voltage				
				Std. Coil:				
				Less Coil	00			
				10VDC	10			
				12VDC	12			
				20VDC	20			
				24VDC	24			
				28VDC	28			
						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: 0.3 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.

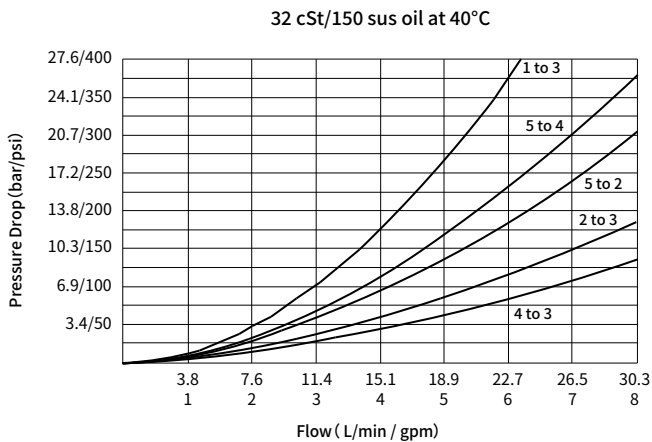
E-Coil:

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	30.3 L/min (8 gpm)	
Internal leakage	≤ 164 mL/min (10 cu. in./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	VC10-5 (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 18/16/13, and level 15/13/11 is recommended to prolong the service life	

Performance (Cartridge Only)



Dimensions

01

