



2.14

# 30SD08-47C TYPE

## Solenoid Directional Valve

Rated pressure (bar / psi) 207 / 3000  
 Peak flow (L/min / gpm) 11.4 / 3

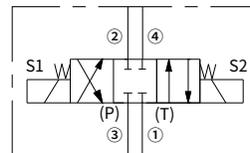
### Features

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

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### Symbol



## Description

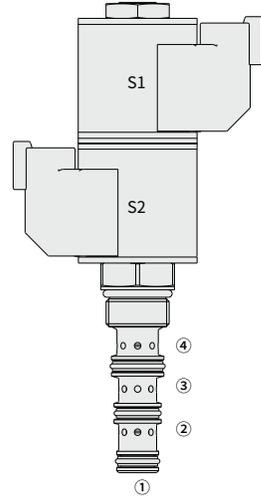
A solenoid-operated, 4-way, 3-position, direct-acting, spool-type, closed center, screw-in hydraulic cartridge valve.

## 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

30SD08-47C

	-	-	-				
<b>Option:</b>	Blank	0					
<b>Cartridge only</b>							
<b>Seals:</b>		P	N	V			
Polyurethane (Std.)							
Buna N							
Fluorocarbon							
<b>Voltage Std. Coil:</b>							
Less Coil					00		
10VDC					10		
12VDC					12		
20VDC					20		
24VDC					24		
<b>Termination (VDC)</b>							
<b>E-Coil:</b>							
Deutsch DT04-2P							ER
(IP69K Rated)							
Lead wires (2)							EL
(IP69K Rated)							
<b>Termination (VDC)</b>							
<b>D-Coil:</b>							
Dual Spades							DS
(SAE J858a, IP65K Rated)							
DIN 43650							DG
(IP65K Rated)							
Lead wires (2)							DL
(IP65K Rated)							

## Materials

### Cartridge:

Weight: 0.14 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:

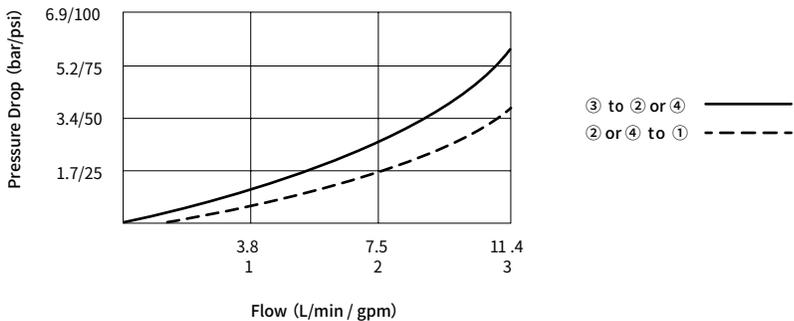
Weight: 0.14 kg; Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with Deutsch sockets.

## Technical Data

Rated pressure	207 bar (3000 psi)	
Peak flow	11.4 L/min (3 gpm)	
Internal leakage	≤ 164 mL/min@207 bar	
Coil duty rating	Continuous from 85% to 115% of nominal voltage	
Initial coil current draw at 20°C	E-Coil	1.4 A at 12VDC; 0.7 A at 24VDC
	D-Coil	1.2 A at 12VDC; 0.6 A at 24VDC
Minimum pull-in voltage	85% of nominal at 207 bar	
Cavity	VC08-4 (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 20/18/14, and level 17/15/13 is recommended to prolong the service life	

## Performance (Cartridge Only)

32cSt/150 sus oil at 40°C



# Dimensions

( Dimensions in mm )

