

2.16

# 35SD08-58C TYPE Solenoid Directional Valve

Rated pressure (bar / psi) 240 / 350

Peak flow (L/min / gpm) 13.3 / 3.5 (See performance chart

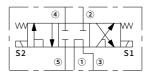
## **Features**

- · 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**



S1

S<sub>2</sub>

# Description

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

# Operation

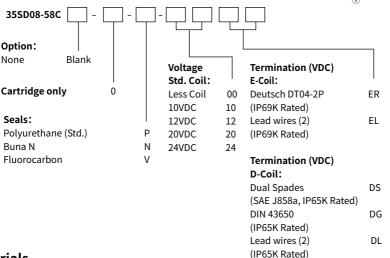
When de-energized, the valve blocks flow between all work ports and load sense at port ① is vented to ③ .

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

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

Load sense at port  $\ensuremath{ \mathfrak{D}}$  is connected to port  $\ensuremath{ \mathfrak{S}}$  when spool is in the shifted positions.

# **Ordering Code**



#### **Materials**

#### Cartridge:

Weight: 0.17 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.

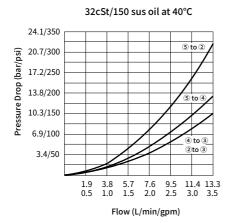
#### E-Coil:

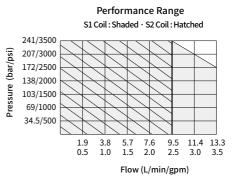
Weight: 0.14 kg; Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with Deutsch sockets.

# **Technical Data**

Rated pressure		240 bar (3500 psi)	
Peak flow		13.3 L/min (3.5 gpm) ; See performance chart	
Internal leakage		≤ 197 mL/min@240 bar	
Coil duty rating		Continuous from 85% to 115% of nominal voltage	
I acce	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 240 bar	
Cavity		VC08-5 (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)

