

3.1

35ED08-47D TYPE Proportional Directional

Control Valve

Rated pressure (bar / psi)	240 / 3500
Rated flow (L/min / gpm)	11.4 / 3

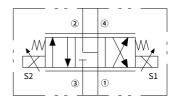
Features

- ·Continuous-duty rated solenoids
- $\cdot \text{Efficient wet-armature construction}$
- · Cartridges are voltage interchangeable
- Optional waterproof E-Coils rated up to IP69K
- ·Industry common cavity
- ·Continuous-duty rated coils
- · Manual override options

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Symbol



Description

A proportional solenoid-operated, 4-way, 3-position, spool-type, direct scting motor spool, screw-in hydraulic cartridge valve.

Operation

When de-energized, the 35ED08-47D blocks flow to 3 , while allowing flow from 2 to 1 , and from 4 to 1 .

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

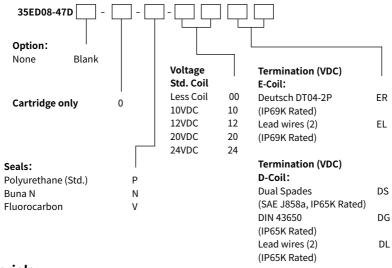
Whencoil #2(S2) is energized flow is allowed from 3 to 2 and from 4 to 1.

While port $\ensuremath{\mathbb O}$ may be fully pressurized, it is not intended for use as the valve's inlet.

In circuits where work port flows are unequal due to cylinder ratios, the higher return flow should be directed to port 0 .



Ordering Code



Materials

Cartridge:

Weight: 0.2 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.

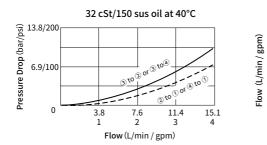
E-Coil:

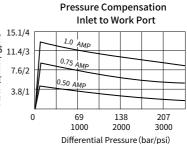
Weight: 0.14 kg ; Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with Deutsch sockets.

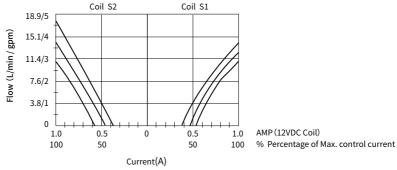
Technical Data

240 bar (3500 psi)
11.4 L/min (3 gpm)
Per side ≤ 164 mL/min @ 207 bar
Less than 7%
1.0 A (12V)
90-100 Hz
Standard coils and E-Coils: Continuous up to 115% of nominal voltage
VC08-4 (See technical reference)
Mineral-based or synthetics with lubricating properties
7.4 to 420 mm ² /s
-54 to 107 °C (Polyurethane seals)
-40 to 100 °C (Buna N seals)
-26 to 204 °C (Fluorocarbon seals)
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)







Amperage with 100 Hz Dither

Dimensions

