



2.26

30SD10-40 TYPE

Solenoid Directional Valve

| | |
|----------------------------|------------|
| Rated pressure (bar / psi) | 207 / 3000 |
| Peak flow (L/min / gpm) | 23 / 6 |

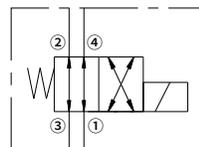
Features

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

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Symbol



Description

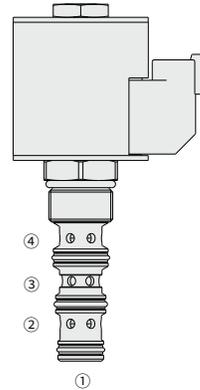
A solenoid-operated, 4-way, 2-position, direct-acting, spool-type, screw-in hydraulic cartridge valve.

Operation

When de-energized, the valve allows flow from ③ to ②, as well as from ④ to ①.

When energized, the cartridge's spool shifts to open ③ to ④, and ② to ①.

All ports are open at cross-over.



Ordering Code

| | | | | | | | | |
|-----------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | 30SD10-40 | <input type="checkbox"/> |
| 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 | | | | | | |
| | 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: 0.30 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.

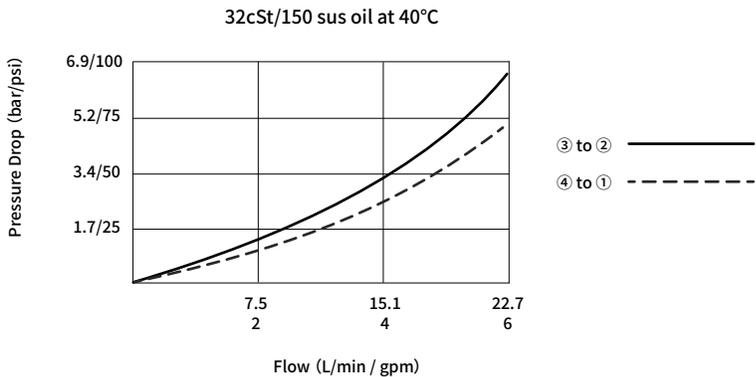
E-Coil:

Weight: 0.41kg; 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 | 23 L/min (6 gpm) | |
| Internal leakage | ≤ 82 mL/min@207 bar | |
| Coil duty rating | Continuous from 85% to 115% of nominal voltage | |
| Initial coil current draw at 20°C | E-Coil | 1.7 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 | VC10-4 (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 20/18/14, and level 17/15/13 is recommended to prolong the service life | |

Performance (Cartridge Only)



Dimensions

(Dimensions in mm)

