3/2 Directional Valve, Solenoid Operated, Spool Type, Direct Acting

SD2E-B3

7/8-14 UNF • Q<sub>max</sub> 60 l/min (16 GPM) • p<sub>max</sub> 350 bar (5100 PSI)

Technical Features

› Hardened precision parts
› High flow capacity
› High transmitted hydraulic power
› Wide range of manual overrides available
› All ports may be fully pressurized
› Variety of optional spools available
› Coil interchangeability among SD*-B* product line
› Standard version zinc-coated with surface protection acc. to ISO 9227 (240 h salt spray)

Functional Description

3-way, 2-position high pressure directional spool valve in form of a screw-in cartridge. The valve is used mainly to direct flow to actuators.

Technical Data

Valve size / Cartridge cavity

<table>
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<tr>
<th>Model Code</th>
<th>Symbol</th>
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<tr>
<td>2D21</td>
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<td>2D25</td>
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Lightline

- High performance
- Measured at ν = 32 mm/s (156 SUS)

Characteristics measured at v = 32 mm/s (156 SUS)

Operating limits - Lightline

Oil 60 °C (140 °F) / Ambient temperature 50 °C (122 °F) / Voltage U<sub>n</sub> -10% (21.6 VDC)

Operating limits - High performance

Oil 80 °C (176 °F) / Ambient temperature 50 °C (122 °F) / Voltage U<sub>n</sub> -10% (21.6 VDC)

Pressure drop related to flow rate - Lightline, High performance

For operating limits under conditions and flow directions other than shown contact our technical support.
In case of solenoid malfunction or power failure, the spool of the valve can be shifted by manual override as long as the pressure in port T does not exceed 25 bar (363 PSI). For alternative manual overrides contact our technical support.

### Ordering Code

3/2 directional valve, solenoid operated, spool type, direct acting

Valve cavity
7/8-14 UNF (C-10-3)

Lightline
High performance

### Surface treatment

- A: zinc-coated (ZnCr-3), ISO 9227 (240 h)
- B: zinc-coated (ZnNi), ISO 9227 (520 h)

### Seals

- NBR (Nitrile Rubber)
- FPM (Viton)

### Manual override

- Standard
- Rubber boot protected
- Socket head screw
- Without manual override

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Subject to change · SD2E-B3_4061_2en_02/2019