4/2 Directional Valve, Solenoid Operated, Spool Type, Direct Acting
SD2E-A4
3/4-16 UNF • Q_max 30 l/min (8 GPM) • p_max 350 bar (5100 PSI)

Lightline

- 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*-A* product line
- Standard version zinc-coated with surface protection acc. to ISO 9227 (240 h salt spray)

Functional Description

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

Technical Data

Valve size / Cartridge cavity 3/4-16 UNF-2A / A4 (C-8-4)

<table>
<thead>
<tr>
<th>Lightline</th>
<th>High performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. flow</td>
<td>20 (5.3)</td>
</tr>
<tr>
<td>Max. operating pressure</td>
<td>250 (3630)</td>
</tr>
<tr>
<td>Fluid temperature range (NBR)</td>
<td>°C (°F)</td>
</tr>
<tr>
<td>Fluid temperature range (FPM)</td>
<td>°C (°F)</td>
</tr>
<tr>
<td>Ambient temperature range</td>
<td>°C (°F)</td>
</tr>
<tr>
<td>Supply voltage tolerance</td>
<td>%</td>
</tr>
<tr>
<td>Max. switching frequency</td>
<td>1/h</td>
</tr>
<tr>
<td>Weight without coil</td>
<td>kg (lbs)</td>
</tr>
</tbody>
</table>

General information

- Coil types
  - Lightline: C_8007
  - High performance: C14B*<sup>+</sup>, C19B*
- Valve bodies
  - In-line mounted: SB_0018
  - Sandwich mounted: SB-A4*<sup>+</sup>, SB-A*4*<sup>+</sup>
- Cavity details / Form tools
  - SMT_0019
  - SMFA4*<sup>+</sup>
- Spare parts
  - SP_8010

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

Operating limits - Lightline

- Oil 60 °C (140 °F) / Ambient temperature 50 °C (122 °F) / Voltage U_4 -10% (21.6 V DC)

Operating limits - High performance

- Oil 80 °C (176 °F) / Ambient temperature 50 °C (122 °F) / Voltage U_4 -10% (21.6 V DC)

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.

www.argo-hytos.com

Subject to change · SD2E-A4_4042_2en_02/2019