### Technical Features

- Hardened precision parts
- High flow capacity and leak-free closing (up to 3 drops per minute)
- High transmitted hydraulic power up to 350 bar
- Wide range of manual overrides available
- All ports may be fully pressurized
- Coil interchangeability among SD*-A*/H product line
- In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227

### Functional Description

3-way, 2 positions, high pressure direct acting poppet valve in form of a screw-in cartridge. The valve is used mainly for ON-OFF bi-directional control of flow to actuators with leak-free closing in both directions.

<table>
<thead>
<tr>
<th>Model Code</th>
<th>257</th>
<th>258</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symbol</td>
<td><img src="image1" alt="Symbol 257" /></td>
<td><img src="image2" alt="Symbol 258" /></td>
</tr>
</tbody>
</table>

### Technical Data

#### Valve size / Cartridge cavity

<table>
<thead>
<tr>
<th>3/4-16 UNF-2A / A3 (C-8-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. flow</td>
</tr>
<tr>
<td>Max. operating pressure</td>
</tr>
<tr>
<td>Fluid temperature range (NBR)</td>
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<tr>
<td>Fluid temperature range (FPM)</td>
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<tr>
<td>Ambient temperature range</td>
</tr>
<tr>
<td>Supply voltage tolerance</td>
</tr>
<tr>
<td>Max. switching frequency</td>
</tr>
<tr>
<td>Weight without coil</td>
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<td></td>
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</tbody>
</table>

#### Operating limits

- Oil 80 °C (176 °F) / Ambient temperature 50 °C (122 °F) / Voltage U_n -10% (21.6 V DC)
- Pressure drop related to flow rate

#### Characteristics

- measured at $v = 32$ mm/s (156 SUS)
Dimensions in millimeters (inches)

No designation - for 2S7 - standard
Designation M2 - for 2S7 - rubber boot protected
Designation M4 - for 2S7 - hand screw
Designation M5 - for 2S7 - socket head screw, size 2.5

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

SD1E-A3 / H

3/2 directional valve, solenoid operated, poppet type, blocking, direct acting.

Valve cavity 3/4-16 UNF (C-8-3)

High performance

Functional symbol 2

Surface treatment
zinc-coated (ZnCr-3), ISO 9227 (240 h)
zinc-coated (ZnNi), ISO 9227 (520 h)

Seals
NBR
FPM (Viton)

Manual override
standard
rubber boot protected
hand screw
socket head screw
without manual override

www.argo-hytos.com

Subject to change · SD1E-A3_4071_2en_02/2019