ICO3S 350B Hydraulic Valve

Electromagnetically actuated, directly controlled

- 3/2 Solenoid valves; Port size: 1/4” (ISO G or NPT), Manifold Mount
- Direct acting solenoid valve
- High flow capability
- Low power consumption

> Offers SIL 2 performance as 1oo1, SIL 3 as 1oo2
> IECEx and ATEX certified, complies with ATEX directive 2014/34/EU
> Enviromental protection: NEMA 4X, IP 66

Technical features

Medium:
- Water Glycol
- Hydraulic Mineral Oil

Operation:
- 3/2 Normally Closed (Fixed)

Operating pressure:
- 50 ... 350 bar (725 ... 5076 psi)
  (Tank Line Max 10 bar (145 psi))

Flow:
- 0.028 Cv (0.4 Kv)

Port size:
- 1/4 NPT, G1/4, Manifold mount

Mounting position:
- Solenoid vertical

Ambient/media temperature:
- -30 ... +90°C (-22 ... +194°F) (NBR)
  -20 ... +90°C (-4 ... +194°F) (FPM)

Materials:
- Body: 316L Stainless Steel
- Seal: NBR, FPM

Note:
- For additional technical information and application suitability and limitations, please consult product manual MI0600.

Technical data - standard models

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Cv</th>
<th>Conduit connection</th>
<th>Seal Material</th>
<th>Weight (kg)</th>
<th>Weight (lbs)</th>
<th>Drawing No.</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Manifold mount</td>
<td>0,028</td>
<td>M20</td>
<td>NBR</td>
<td>2,1</td>
<td>4,6</td>
<td>1</td>
<td>Y0X4ANH1B1S</td>
</tr>
<tr>
<td></td>
<td>Manifold mount</td>
<td>0,028</td>
<td>1/2 NPT</td>
<td>NBR</td>
<td>2,1</td>
<td>4,6</td>
<td>1</td>
<td>Y0X4ANH2B2S</td>
</tr>
<tr>
<td></td>
<td>1/4 NPT</td>
<td>0,028</td>
<td>1/2 NPT</td>
<td>NBR</td>
<td>3,0</td>
<td>6,6</td>
<td>2</td>
<td>Y0X4AA1H2B2S</td>
</tr>
<tr>
<td></td>
<td>G1/4</td>
<td>0,028</td>
<td>M20</td>
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</tr>
</tbody>
</table>

Other product and body material available for more information contact Maxseal technical service

Electrical details

Voltage:
- 24 V d.c., 48/50 V d.c., 110 V d.c., 125 V d.c.

Rating:

Power consumption:
- 3W / 1W* / 0.5W (Exia)*

Insulation class
- Class H

Conduit connection
- 1/2 NPT or M20 x 1,5

IP-Protection class
- EN 60529

ATEX details

Certification:
- Ex db IIC T4/T6

Ambient temperature:
- T4:
  -30 ... +90°C (-22 ... +194°F)
- T6:
  -30 ... +50°C (-22 ... +122°F)

Additional Global Approvals:
- In-Metro, TR CU, CCCE, NEPSI

*1) Contact Factory Concerning Availability

Option selector

Valve type | Substitute | Nominal bore size & female thread | Substitute
---|------------|----------------------------------|-----------
ICO3S Ex d | Y0 | 1/4 NPT (6 mm) | A1
ICO3S Ex mbe | YZ | 1/4 BSPP (6 mm) | E1
Manifold face mount | NH | |

Voltage / Signal | Substitute
---|------------
24 V d.c. | B
48/50 V d.c. | C
110 V d.c. | D
125 V d.c. | E

Conduit connection | Substitute
---|------------
M20 x 1,5 mm | 1
1/2 NPT | 2

Seal/seal material | Substitute
---|------------
NBR | H
FPM | V

IMI Precision Engineering

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2016 - 9154c) © 2015 Thompson Valves Ltd.

en 5.7.545.01
Dimensions

1 Conduit connection
M20 x 1.5 or 1/2 NPT

2 External Earth

Dimensions shown in mm
Projection/First angle

"PORT VIEW"
PLEASE CONSULT PRODUCT
DRAWING Y0X4AH4000-ENVELOPE
FOR PATTERN DIMENSIONS

ICO3S 350B Hydraulic Valve
Electromagnetically actuated, directly controlled
Dimensions

Dimensions shown in mm
Projection/First angle

Warning

These products are intended for use in industrial hydraulic systems only. Do not use these products where pressures and temperatures can exceed those listed under "Technical features/data." Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering, Thompson Valves Ltd.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure. System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided. System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products. For further information please see Functional Safety Manual MI0560.