Pressure gauge isolator valve

Type AF 6...L3X

Size 6
up to 315 bar

Contents
Function and configuration 02
Installation examples 02
Ordering code 03
Technical data 03
Unit dimensions 04

Features
- 3-way spool valve
- For sub-plate mounting
- For threaded connections
- Push button operated
Function and configuration

Pressure gauge isolator valves type AF 6 are 3-way spool valves for manual operation. They serve to monitor the prevailing operating pressure. The valves basically consist of housing (1), spool (2), compress spring (3), push button (4). It has two switched positions as well as spring return to the initial position. In the initial position, flow from P to the pressure gauge via the spool (2) is blocked and the pressure gauge is connected with channel T. When the button (4) is pushed, the spool (2) is moved into the switched position, giving free flow from P to the pressure gauge and the connection to T is blocked. After operation, the spool (2) is pushed back into the initial position by the compress spring (3) and thereby unloads the pressure gauge. The valve is available for sub-plate mounting or threaded connections. The pressure gauge can be directly screwed in to the valve housing or fitted separately (see installation examples).

Installation examples
**Ordering code**

<table>
<thead>
<tr>
<th>A</th>
<th>F</th>
<th>6</th>
<th>E</th>
<th>L3X</th>
<th>/</th>
<th>*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolator valve = A</td>
<td>Spring return = F</td>
<td>Nominal size 6 = 6</td>
<td>Single valve = E</td>
<td>For threaded connections = A</td>
<td>For sub-plate mounting = P</td>
<td>Series L30 to L39 = L3X</td>
</tr>
<tr>
<td>Without pressure gauge connection = X</td>
<td>With pressure gauge connection = X1</td>
<td>With radial boundless pressure gauge = Y</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Further details in clear text

- No code = NBR seals
- V = FKM seals
- Connection thread:
  - No code = Inch threaded
  - 2 = Metric threaded

- Pressure gauge measuring range (only for version Y)
  - 6 = Indication range up to 60 bar (allowable max. operating pressure 40 bar)
  - 10 = Indication range up to 100 bar (allowable max. operating pressure 63 bar)
  - 16 = Indication range up to 160 bar (allowable max. operating pressure 100 bar)
  - 25 = Indication range up to 250 bar (allowable max. operating pressure 160 bar)
  - 40 = Indication range up to 400 bar (allowable max. operating pressure 315 bar)

**Technical data**

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Mineral oil, Phosphate ester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid temperature range °C</td>
<td>-30 to +80 (NBR seal)</td>
</tr>
<tr>
<td>Viscosity range mm²/s</td>
<td>2.8 to 380</td>
</tr>
<tr>
<td>Degree of contamination</td>
<td>Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406</td>
</tr>
<tr>
<td>Max. operating pressure bar</td>
<td>315</td>
</tr>
<tr>
<td>Indicating range of pressure gauge bar</td>
<td>60, 100, 160, 250, 400</td>
</tr>
<tr>
<td>Weight kg</td>
<td>1.4</td>
</tr>
</tbody>
</table>

The indicating range should be approx. 30% above the max. operating pressure
Unit dimensions

1. Pressure gauge isolator valve
2. Tank port, optional
3. O-ring 20 × 2.65 (for plate-type connection)
4. Pressure port (pump)
5. Push button, stroke 6 mm
6. Pressure gauge diameter 100 mm
7. Panel cut-out
8. Connectors (out of the supplying scop)
9. Pressure connections

Requirement for mounting surface

0.8

0.01/100mm