Check valves type ADR
in-line mounting - from G 1/4" to G 1 1/4" threaded ports

ADR are direct operated check valves for in-line mounting available with port size from 1/4" to 1 1/4" GAS.

Cartridge designed to operate in hydraulic systems with hydraulic mineral oil or synthetic fluid having similar lubricating characteristics.

Flow up to 500 l/min
Pressure up to 400 bar

1 MODEL CODE
ADR - 10 / 4 **
Check valve in-line mounting

Size/threated connections:
06 = G 1/4"
10 = G 3/8"
15 = G 1/2"
20 = G 3/4"
25 = G 1"
32 = G 1 1/4"

Cracking pressure:
- = 0.5 bar
/2 = 2 bar
/4 = 4 bar
/8 = 8 bar

2 HYDRAULIC CHARACTERISTICS

<table>
<thead>
<tr>
<th>Hydraulic symbol</th>
<th>A --MQ-- B</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Valve model</th>
<th>ADR-06</th>
<th>ADR-10</th>
<th>ADR-15</th>
<th>ADR-20</th>
<th>ADR-25</th>
<th>ADR-32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max recommended flow (l/min)</td>
<td>40</td>
<td>80</td>
<td>150</td>
<td>300</td>
<td>360</td>
<td>500</td>
</tr>
<tr>
<td>Max pressure (bar)</td>
<td>400</td>
<td></td>
<td>350</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3 MAIN CHARACTERISTICS, SEALS AND FLUIDS - for other fluids not included in below table, consult our technical office

<table>
<thead>
<tr>
<th>Assembly position</th>
<th>Any position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid</td>
<td>Hydraulic oil as per DIN 51524 ... 535</td>
</tr>
<tr>
<td>Fluid temperature</td>
<td>≤ 80°C</td>
</tr>
<tr>
<td>Recommended viscosity</td>
<td>15÷100 mm²/s - max allowed range 2.8 ÷ 500 mm²/s</td>
</tr>
<tr>
<td>Max fluid contamination level</td>
<td>ISO4406 class 20/18/15 NAS1638 class 9, see also filter section at <a href="http://www.atos.com">www.atos.com</a> or KTF catalog</td>
</tr>
<tr>
<td>Flow direction</td>
<td>As shown in the symbol at section 2</td>
</tr>
<tr>
<td>Rated flow</td>
<td>See diagrams Q/Δp at section 4</td>
</tr>
</tbody>
</table>
FLOW VERSUS PRESSURE DROP DIAGRAMS
Based on mineral oil ISO VG 46 at 50°C

ADR-06
ADR-10
ADR-15
ADR-20
ADR-25
ADR-32

Model                     A     B     C     D     E     Mass [kg]
ADR - 06                 22   67   12   13     G 1/4"  0.2
ADR - 10                 27   70   12   13     G 3/8"  0.4
ADR - 15                 32  82.5  14   17     G 1/2"  0.6
ADR - 20                 36 102.5  16  21.5    G 3/4"  0.9
ADR - 25                 46 120   18  24.5    G 1"    2.1
ADR - 32                 55 137.5 20  23     G 1 1/4" 2.5

DIMENSIONS [mm]

A

B

C

D

E

Model
ADR - 06
ADR - 10
ADR - 15
ADR - 20
ADR - 25
ADR - 32

A

B

C

D

E

Mass [kg]
0.2
0.4
0.6
0.9
2.1
2.5

Flow [l/min]

Valve pressure drop [bar]

Flow [l/min]

Valve pressure drop [bar]

Flow [l/min]

Valve pressure drop [bar]

Flow [l/min]

Valve pressure drop [bar]