Direct Operated Relief Valve

Features
- As the override pressure is small, this valve has almost equivalent performance to a pilot operated type.
- The vibration proof structure prevents chattering even in the high pressure range.

Nomenclature

1. Applicable fluid code
   - No designation: Petroleum-based hydraulic fluid, water-glycol hydraulic fluid
   - F: Phosphate ester hydraulic fluid

2. Model No.
   - HDRIR: H series direct operated relief valve

3. Connections
   - G: Gasket mount type
   - T: Screw connection type

Specifications

<table>
<thead>
<tr>
<th>Model code No.</th>
<th>Nominal diameter</th>
<th>Pressure adjustment range MPa (kgf/cm²)</th>
<th>Maximum flow rate L/min</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDRIR-G02-1</td>
<td>¼</td>
<td>0.9 to 7 (9 to 70)</td>
<td>2.6</td>
<td></td>
</tr>
<tr>
<td>HDRIR-G02-2</td>
<td></td>
<td>3.5 to 21 (35 to 210)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDRIR-T02-1</td>
<td></td>
<td>0.9 to 7 (9 to 70)</td>
<td>1.8</td>
<td></td>
</tr>
<tr>
<td>HDRIR-T02-3</td>
<td></td>
<td>3.5 to 21 (35 to 210)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Handling
- Directly connect the tank piping of the valve to the tank without merging it with other tank piping.
- These valves can be used for remotely controlling pilot operated pressure control valves with a nominal diameter of 2 or larger. Since excessive internal volume of the pilot piping may lead to vibration, use steel pipes with an inner diameter of 4 mm maximum and with thick walls for this piping.
- Mounting bolts and O-rings are not provided with the valve (gasket mount type). Use an O-ring conforming to JIS B 2401 1B P18 and M10 × 30 bolts when mounting the valve directly on a manifold.

Performance curves (viscosity: 32 mm²/s {cSt})

Flow rate - Pressure characteristics

Pressure drop characteristics (with the handle fully open)

Contact Details
Before using the product, please check the guide pages at the front of this catalog.

http://www.daikinpmc.com/en/
For latest information, PDF catalogs and operation manuals
External dimension diagram

HDRIR-G02

HDRIR-T02

Sectional structural diagram

HDRIR-G02

Sealing part table

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Name</th>
<th>Quantity</th>
<th>Part specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>O-ring</td>
<td>1</td>
<td>JIS B 2401 1AP7</td>
</tr>
<tr>
<td>17</td>
<td>O-ring</td>
<td>1</td>
<td>JIS B 2401 1AG25</td>
</tr>
</tbody>
</table>