Cam Operated Pilot Operated Valve

Features

- These 2-position 2-way valves enable switching of the fluid passage in a hydraulic pilot circuit or interlocking circuit using cam operation.
- Their compact and lightweight designs are ideal for automatic operation.

Nomenclature

1. Applicable fluid code
   - No designation: Petroleum-based hydraulic fluid, water-glycol hydraulic fluid
   - F: Phosphate ester hydraulic fluid
2. Model No.
   - DD: Cam operated pilot valve
3. Number of directions
   - 2: 2-way type
4. Number of positions
   - 2: 2-position valve
5. Connections
   - G: Gasket mount type
   - T: Screw connection type
6. Nominal diameter
   - 02: ¼

Specifications

<table>
<thead>
<tr>
<th>Model code</th>
<th>Nominal diameter</th>
<th>Maximum operating pressure MPa (kgf/cm²)</th>
<th>Maximum flow rate L/min</th>
<th>Operating force N (kgf)</th>
<th>Stroke mm</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD2-2×02</td>
<td>¼</td>
<td>14 (140)</td>
<td>11.4</td>
<td>127 (12.7)</td>
<td>Maximum 12.5</td>
<td>2.3</td>
</tr>
</tbody>
</table>

Accessories (gasket mount type)

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Tightening torque N·m (kgf·cm)</th>
</tr>
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<tr>
<td>M8 × 70</td>
<td>4</td>
<td>20 to 25 (200 to 250)</td>
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Handling

- Directly connect the tank piping to the tank without merging it with other tank piping.
- Operate the valve with a cam. Use a cam with an inclination angle of no greater than 35°.
- Switch operation requires a minimum stroke of 8 mm.

Sectional structural diagram

- DD2-2G02
External dimension diagram

- **DD2-G02**

  - Spring offset status
  - Stroke: 12.5
  - With plunger depressed
  - Pressure port P
  - Roller outer diameter: φ12
  - Cylinder port A
  - Tank port T

- **DD2-T02**

  - Spring offset status
  - Stroke: 12.5
  - With plunger depressed
  - Roller outer diameter: φ12
  - Cylinder port B
  - Pressure port P