Remote Control Relief Valve

2 to 15ℓ/min 21MPa

Features

1. Connecting a relief valve or reducing valve to the vent port of a balanced piston type pressure control valve provides simple remote control of pressure.
2. RCD type can also be used as a direct type relief valve.

Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Nominal Diameter</th>
<th>Maximum Working Pressure MPa(kgf/cm²)</th>
<th>Maximum Flow Rate ℓ/min</th>
<th>Pressure adjustment range MPa(kgf/cm²)</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCD-T02-1-11 3-11</td>
<td>1/4</td>
<td>21 (214)</td>
<td>15</td>
<td>0.8 to 7 (8.2 to 71.4) 3.5 to 21 (35.7 to 214)</td>
<td>2.1</td>
</tr>
<tr>
<td>RCD-T02-1-12 3-12</td>
<td>RC-G02-1-21</td>
<td>2</td>
<td>15</td>
<td>0.8 to 7 (8.2 to 71.4) 3.5 to 21 (35.7 to 214)</td>
<td>1.4</td>
</tr>
</tbody>
</table>

Note) The pressure adjustment range indicates cracking pressure.

Explanation of model No.

RC - G 02 - 1 - (K) - 21

- Design number
- Adjusting bolt type (gasket type only)
- Pressure adjustment range 1, 3
- Nominal diameter (size)
- Mounting method:
  - T: Screw Mounting
  - G: Gasket Mounting
- Remote control relief valve

Installation Dimension Drawings

RCD-T02-*-11 (Screw Mounting)

- T port Rc 1/4
- P port Rc 1/4

- Fig. 1

Handling:

1. To adjust pressure, loosen the lock nut and then rotate the handle clockwise (rightward) to increase pressure or counter-clockwise (leftward) to decrease it.
2. Make sure that drain port back pressure is no greater than 0.2MPa (2.0kgf/cm²).
3. When configuring pipes for the pressure control valve and remote control valve, use of thick iron pipe with an inside diameter of no more than 4mm and a connection length of no more than three meters is recommended. Pipe capacity can be a source of vibration.
4. When an adjustment bolt type is required for the pressure adjustment block, insert K for the type specification. See the dimension drawings, RC-G02 only.
5. Use the following to specify a sub plate.
6. The following are the bundled mounting bolts.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Bolt Dimensions</th>
<th>Qty</th>
<th>Tightening Torque N·m(kgf·cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RC-G02-*-21</td>
<td>M8×25ℓ</td>
<td>4</td>
<td>20 to 25 (205 to 255)</td>
</tr>
</tbody>
</table>

Note) For mounting bolts, use bolts of 12.9 strength classification or equivalent.
RC-T02-*-12 (Screw Mounting)

RC-G02-*-21 (Gasket Mounting)

Sub Plate MRC-02-20

Cross-sectional Drawings

Part No. | Part Name    | Part No. | Part Name
---------|--------------|----------|--------------
1        | Body         | 12       | O-ring       
2        | Sleeve       | 13       | O-ring       
3        | Sleeve       | 14       | O-ring       
4        | Poppet       | 15       | Nameplate    
5        | Retainer     |          |              
6        | Spring       |          |              
7        | Guide        |          |              
8        | Nut          |          |              
9        | Screw        |          |              
10       | Plug         |          |              
11       | O-ring       |          |              

Note) The materials and hardness of the O-ring conforms with JIS B2401.

Seal Part List (Kit Model Number RCS-T02CD)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Name</th>
<th>Part Number</th>
<th>Q’ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>O-ring</td>
<td>S12.5(NBR-70-1)</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>O-ring</td>
<td>NBR-70-1 P11</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>O-ring</td>
<td>NBR-90 P14</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>O-ring</td>
<td>NBR-90 P18</td>
<td>1</td>
</tr>
</tbody>
</table>

Note) The materials and hardness of the O-ring conforms with JIS B2401.

Part No. | Part Name | Part Number  | Q’ty |
---------|-----------|--------------|------|
1        | Poppet    |              |      |
2        | Seat      |              |      |
3        | Plunger   |              |      |
4        | Retainer  |              |      |
5        | Spring    |              |      |
6        | Handle    |              |      |
7        | Nut       |              |      |
8        | Cover     |              |      |
9        | Collar    |              |      |
10       | O-ring    |              |      |
11       | O-ring    |              |      |
12       | O-ring    |              |      |
13       | Plug      |              |      |
14       | Plate     |              |      |

Seal Part List (Kit Model Number RCBS-G02)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Name</th>
<th>Part Number</th>
<th>Q’ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>O-ring</td>
<td>NBR-90 G30</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>O-ring</td>
<td>NBR-90 P6</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>O-ring</td>
<td>NBR-70-1 P11</td>
<td>1</td>
</tr>
</tbody>
</table>

Note) The materials and hardness of the O-ring conforms with JIS B2401.