Direction Control Valve

Features

① The compact 01 and 03 sizes are perfect for small flow rate control.
② Since a balanced type valve is used, there is no need for drain piping, and use with back pressures up to 16MPa (163kgf/cm²) is possible.
③ Mounting methods are the same as SAG01/03, and the 01, 03 size modular valve can be used, so circuit configuration is quick and easy.

Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Nominal Diameter (Size)</th>
<th>Maximum Working Pressure MPa{kgf/cm²}</th>
<th>Tank Port Back Pressure MPa{kgf/cm²}</th>
<th>Maximum Flow Rate ℓ/min</th>
<th>Spool Stroke (mm)</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMA-G01-***-20</td>
<td>1/8</td>
<td>35(25) (357/255)</td>
<td>16 (163)</td>
<td>40</td>
<td>4</td>
<td>1.3</td>
</tr>
<tr>
<td>DMA-G03-***-(J)20</td>
<td>3/8</td>
<td></td>
<td></td>
<td>100</td>
<td>6</td>
<td>3.3</td>
</tr>
</tbody>
</table>

Positions  Type  JIS Symbol  Model No.  Maximum Working Pressure MPa{kgf/cm²}
Closed Cross
2-position

Open Cross
Closed Cross
Open Cross

All Ports Open

All Ports Blocked

ABT Connection

PT Connection

PAT Connection

3-position

Note) Use bolts of 12.9 strength classification or equivalent.

These sub plates can also be used with SA (SS)-G01/G03, so see SA (SS)-G01/G03 for mounting methods.
**Explanation of model No.**

**DMA – G 01 – A 3 X – 20**

- **Design number:**
  - 20: 01 size and 03 size for M8 mounting bolt
  - J20: 03 size for M6 mounting bolt

- **Transition flow path:**
  - (*)3*, (*7* only)
  - X: Closed
  - Y: Restrictor open
  - Z: Open

- **Center valve position flow path:**
  - 3, 4, 5, 6, 7, 8

- **Manual valve (DMA type)**

- **Operation Method:**
  - A: Spring offset type
  - C: Spring center
  - E, F: Detent

- **Nominal diameter:**
  - 01, 03

- **Mounting method:**
  - G: Gasket type

**Installation Dimension Drawings**

**DMA-G01-***-20**

Gasket Surface Dimensions
ISO 4401-03-02-0-05
(JIS B8355 D-03-02-0-05)

**DMA-G03-***-(J)20**

Gasket Surface Dimensions
ISO 4401-05-04-0-05
(JIS B8355 D-05-04-0-05)

**Cross-sectional Drawing**

**Seal Part List**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Name</th>
<th>DMA-G01</th>
<th>DMA-G03</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>O-ring</td>
<td>NBR-70-1</td>
<td>P7</td>
</tr>
<tr>
<td>17</td>
<td>O-ring</td>
<td>AS568-012</td>
<td>(NBR-90)</td>
</tr>
<tr>
<td>18</td>
<td>O-ring</td>
<td>AS568-019</td>
<td>(NBR-90)</td>
</tr>
<tr>
<td>19</td>
<td>Backup ring</td>
<td>T2-P7</td>
<td>T2-P10</td>
</tr>
</tbody>
</table>

**Note:**
1. The materials and hardness of the O-ring conforms with JIS B2401.
2. Backup ring indicates JIS B2407-T2-**.