The compact 01 and 03 sizes are perfect for small flow rate control. Since a balanced type valve is used, there is no need for drain piping, and use with back pressures up to 2320 psi is possible. Mounting methods are the same as SAG01/03, and the 01, 03 size modular the reaction of the poppet action is valve can be used, so circuit configuration is quick and easy.

### Features

The compact 01 and 03 sizes are perfect for small flow rate control. Since a balanced type valve is used, there is no need for drain piping, and use with back pressures up to 2320 psi is possible. Mounting methods are the same as SAG01/03, and the 01, 03 size modular the reaction of the poppet action is valve can be used, so circuit configuration is quick and easy.

### Specifications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DMA-G01-***-20</td>
<td>1/8</td>
<td>5075</td>
<td>2320</td>
<td>10.5</td>
<td>.16</td>
<td>.16 × 2</td>
</tr>
<tr>
<td>DMA-G03-***-(J)20</td>
<td>3/8</td>
<td>3625</td>
<td></td>
<td>24.6</td>
<td>.24</td>
<td>.24 × 2</td>
</tr>
</tbody>
</table>

- **Positions**
  - **2-position**
    - **Type**
      - Closed Cross
      - Open Cross
  - **3-position**
    - **Type**
      - All Ports Open
      - All Parts Blocked
      - ABT Connection
      - PT Connection
      - PAT Connection

- **Features**
  - **Manual Valves**
    - DMA MANUALLY OPERATED DIRECTIONAL VALVE
  - **Features**
    - E-1

### Handling

1. The following are the three types of lever operations.
   - **Spring Offset Type (Type A)**
     - The lever is normally kept in the end position by the spring. Raising the lever performs switching, and the lever returns to its original position when released.
   - **Spring Center Type (Type C)**
     - The spool is normally in the center of position 3. After switching to either end, the spring returns the lever to its center position when the lever is released.
   - **Detent Type (Type F, Type E)**
     - A notch at spool position 3 or as a stop.

2. Pressure loss is the same as that for the SAG01/G03, so see SA-G01/G03 for more information.

3. The lever mounting orientation can be positioned at 90° increments by changing the orientation of the lever side cover.

4. For PT connection type DMA-G01/G03-7*-(*J)20, closed cross DMA-G01/G03-7*X-(J)20 is the standard type.

5. The relationship between the lever switching positions and JIS symbols is shown below. (See the installation dimension diagrams for symbols & I and & II.)

### Note: For mounting bolts, use grade 8 or equivalent.

6. Mounting bolts are not included with the 01 size.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Pipe Diameter</th>
<th>Maximum Working Pressure psi</th>
<th>Recommended Flow Rate gpm</th>
<th>Weight lbs</th>
<th>Applicable Valve Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSA-01Y-E10</td>
<td>3/8</td>
<td>3625</td>
<td>10.5</td>
<td>2.6</td>
<td>DMA-G01-***-20</td>
</tr>
<tr>
<td>MS-03-E30</td>
<td>3/8</td>
<td>3625</td>
<td>10.5</td>
<td>5</td>
<td>DMA-G03-***-E10</td>
</tr>
<tr>
<td>MS-03X-E30</td>
<td>1/2</td>
<td>3625</td>
<td>11.8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

These sub plates can also be used with SA (SS)-G01/G03, so see SA (SS)-G01/G03 for mounting methods.
**Understanding Model Numbers**

<table>
<thead>
<tr>
<th>Design number</th>
<th>E20: G01</th>
<th>E10: G03</th>
</tr>
</thead>
</table>

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

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

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

Nominal diameter 01, 03

Mounting method G: Gasket type

Manual valve (DMA type)

**Installation Dimension Drawings**

DMA-G01-*E-20 (D03)
Gasket Surface Dimensions (ISO 4401-02-094 JIS B8355 D-02-094)

DMA-G03-***-E-10 (D05)
Gasket Surface Dimensions (ISO 4401-04-094 JIS B8355 D-04-094)

**Cross-sectional Drawing**

DMA-G01-***-20

**Seal Part List**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Name</th>
<th>Part No.</th>
<th>Part Name</th>
<th>Part No.</th>
<th>Part Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>9</td>
<td>Rod cover</td>
<td>17</td>
<td>O-ring</td>
</tr>
<tr>
<td>2</td>
<td>Cover A</td>
<td>10</td>
<td>Nameplate</td>
<td>18</td>
<td>O-ring</td>
</tr>
<tr>
<td>3</td>
<td>Cover B</td>
<td>11</td>
<td>Stopper screw</td>
<td>19</td>
<td>Backup ring</td>
</tr>
<tr>
<td>4</td>
<td>Spool</td>
<td>12</td>
<td>Screw</td>
<td>20</td>
<td>Snap ring</td>
</tr>
<tr>
<td>5</td>
<td>Ring</td>
<td>13</td>
<td>Screw</td>
<td>21</td>
<td>Guide</td>
</tr>
<tr>
<td>6</td>
<td>Bush</td>
<td>14</td>
<td>Pin</td>
<td>22</td>
<td>Ball</td>
</tr>
<tr>
<td>7</td>
<td>Lever</td>
<td>15</td>
<td>Knob</td>
<td>23</td>
<td>Retainer</td>
</tr>
<tr>
<td>8</td>
<td>Spring</td>
<td>16</td>
<td>O-ring</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note) 1.O-ring 1A/B-** refers to JIS B2401-1A/B.
2.Backup ring indicates JIS B2407-T2-**.