Compact design, large flow capacity 10.8 mm²
High cycle rate, long life/300 c.p.m. or less
Piping possible to any EXH port.
Proper countermeasures can be taken for applications in which the noise of the exhaust could cause problems to the surroundings.

External pilot model available. (Option)
Foot bracket and manifold mounting possible.

Specifications

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Air/Inert gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating pressure</td>
<td>0.15 to 0.7 MPa (1)</td>
</tr>
<tr>
<td>Ambient and fluid temperature</td>
<td>–5 to 60°C (No freezing)</td>
</tr>
<tr>
<td>Effective area</td>
<td>10.8 mm²</td>
</tr>
<tr>
<td>Maximum frequency (Mechanical operation type)</td>
<td>300 c.p.m. or less</td>
</tr>
<tr>
<td>Lubrication</td>
<td>Not required (Use turbine oil Class 1 ISO VG32, if lubricated.)</td>
</tr>
<tr>
<td>Port size</td>
<td>Pilot valve (EXH)/M5 x 0.8</td>
</tr>
<tr>
<td>Option</td>
<td>Foot bracket (2)</td>
</tr>
<tr>
<td>Weight (Basic)</td>
<td>130 g</td>
</tr>
</tbody>
</table>

Note 1) External pilot type Main valve: 0 to 0.7 MPa
Pilot valve: 0.15 to 0.7 MPa

Note 2) The standard body can not be retrofitted with a foot bracket.

Note 3) Actuator replacement is available for all types. (Except push-pull)
For push button (mushroom), push button (extended), push button (flush) and a single unit of fastening ring, refer to pages 5-6-6 to 5-6-7. The other parts are not replaceable.

Note 3) The handle of the selector (2 position) cannot be removed or replaced alone.
**How to Order**

**VZM55**

<table>
<thead>
<tr>
<th>Port size</th>
<th>Description</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Re 1/8</td>
<td>F</td>
</tr>
<tr>
<td>N01</td>
<td>NPT 1/8</td>
<td></td>
</tr>
<tr>
<td>F01</td>
<td>G 1/8</td>
<td></td>
</tr>
</tbody>
</table>

**Body option**

<table>
<thead>
<tr>
<th>0</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>External pilot type</td>
</tr>
<tr>
<td></td>
<td>Except VZM550-01-37</td>
</tr>
</tbody>
</table>

**Actuator type**

<table>
<thead>
<tr>
<th>00</th>
<th>Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Roller lever</td>
</tr>
<tr>
<td>02</td>
<td>One way roller lever</td>
</tr>
<tr>
<td>05</td>
<td>Straight plunger</td>
</tr>
<tr>
<td>06</td>
<td>Roller plunger</td>
</tr>
<tr>
<td>08</td>
<td>Toggle lever</td>
</tr>
<tr>
<td>30</td>
<td>Push button (Mushroom)</td>
</tr>
<tr>
<td>32</td>
<td>Push button (Extended)</td>
</tr>
<tr>
<td>33</td>
<td>Push button (Flush)</td>
</tr>
<tr>
<td>34</td>
<td>Twist selector (2 position)</td>
</tr>
<tr>
<td>36</td>
<td>Key selector (2 position)</td>
</tr>
<tr>
<td>37</td>
<td>Push-pull</td>
</tr>
</tbody>
</table>

**Suffix for actuator**

<table>
<thead>
<tr>
<th>S</th>
<th>Hard steel roller</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>Red</td>
</tr>
<tr>
<td>B</td>
<td>Black</td>
</tr>
<tr>
<td>G</td>
<td>Green</td>
</tr>
<tr>
<td>Y</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

**Color of push button selector**

<table>
<thead>
<tr>
<th>P</th>
<th>Non-actuated Actuated</th>
</tr>
</thead>
</table>

**Construction**

<table>
<thead>
<tr>
<th>Component Parts</th>
<th>Description</th>
<th>Material</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>ADC</td>
<td>Metallic plated</td>
</tr>
<tr>
<td>2</td>
<td>Pilot body</td>
<td>PBT</td>
<td>ZDC only for external pilot</td>
</tr>
<tr>
<td>3</td>
<td>Head cover</td>
<td>ZDC</td>
<td>Black zinc chromated</td>
</tr>
<tr>
<td>4</td>
<td>Spool valve assembly</td>
<td>ZDC</td>
<td>Metallic plated</td>
</tr>
<tr>
<td>5</td>
<td>End cover</td>
<td>ZDC</td>
<td>Metallic plated</td>
</tr>
<tr>
<td>6</td>
<td>Piston</td>
<td>POM</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Plunger</td>
<td>POM</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Valve seat (A)</td>
<td>POM</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Valve seat (B)</td>
<td>POM</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Valve assembly</td>
<td>NBR</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Valve spring</td>
<td>Stainless steel</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Return spring</td>
<td>Stainless steel</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Spool spring</td>
<td>Stainless steel</td>
<td></td>
</tr>
</tbody>
</table>
Series VZM500

**Basic**
VZM550-01-00

![Diagram of Basic VZM550-01-00]

**Roller lever**
VZM550-01-01
VZM550-01-01S

![Diagram of Roller lever VZM550-01-01 and VZM550-01-01S]

**One way roller lever**
VZM550-01-02
VZM550-01-02S

![Diagram of One way roller lever VZM550-01-02 and VZM550-01-02S]

---

**JIS Symbol**

- **Basic VZM550-01-00**
  - A/B
  - 5 1 3
  - 16 NF.O.F.
  - 0.5 MPa supply

- **Roller lever VZM550-01-01**
  - A/B
  - 5 1 3
  - 8 NF.O.F.
  - 0.5 MPa supply

- **One way roller lever VZM550-01-02**
  - A/B
  - 5 1 3
  - 7 NF.O.F.
  - 0.5 MPa supply

**Specifications**

<table>
<thead>
<tr>
<th>Basic VZM550-01-00</th>
<th>Roller lever VZM550-01-01</th>
<th>One way roller lever VZM550-01-02</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.T. 1.0 mm</td>
<td>P.T. 2.0 mm</td>
<td>P.T. 2.4 mm</td>
</tr>
<tr>
<td>O.T. 2.0 mm</td>
<td>O.T. 3.0 mm</td>
<td>O.T. 4.0 mm</td>
</tr>
<tr>
<td>T.T. 3.0 mm</td>
<td>T.T. 6.2 mm</td>
<td>T.T. 7.0 mm</td>
</tr>
</tbody>
</table>

---

*5 Port Mechanical Valve Series VZM500*
Series VZM500

**Push button (Mushroom)**
VZM550-01-30R/B/G/Y

**Push button (Extended)**
VZM550-01-32R/B/G/Y

**Push button (Flush)**
VZM550-01-33

---

**Panel mounting hole**

**JIS symbol**

- (A) (B)
- 4
- 2
- (R1) (P1) (R2)

---

* 0.5 MPa supply

**F.O.F.** 21 N
**P.T.** 4.8 mm
**O.T.** 1.7 mm
**T.T.** 6.5 mm

---

**Panel mounting hole**

**JIS symbol**

- (A) (B)
- 4
- 2
- (R1) (P1) (R2)

---

* 0.5 MPa supply

**F.O.F.** 21 N
**P.T.** 4.8 mm
**O.T.** 1.7 mm
**T.T.** 6.5 mm

---

**Panel mounting hole**

**JIS symbol**

- (A) (B)
- 4
- 2
- (R1) (P1) (R2)

---

* 0.5 MPa supply

**F.O.F.** 21 N
**P.T.** 4.8 mm
**O.T.** 1.7 mm
**T.T.** 6.5 mm

---

**Panel mounting hole**

**JIS symbol**

- (A) (B)
- 4
- 2
- (R1) (P1) (R2)

---

* 0.5 MPa supply

**F.O.F.** 21 N
**P.T.** 4.8 mm
**O.T.** 1.7 mm
**T.T.** 6.5 mm

---

**Panel mounting hole**

**JIS symbol**

- (A) (B)
- 4
- 2
- (R1) (P1) (R2)

---

* 0.5 MPa supply

**F.O.F.** 21 N
**P.T.** 4.8 mm
**O.T.** 1.7 mm
**T.T.** 6.5 mm

---

2-3.2 mounting hole

**2-3.2 mounting hole**

**2-3.2 mounting hole**

**2-3.2 mounting hole**

---

**(Pilot exhaust port)**

---

**(Pilot exhaust port)**

---

**(Pilot exhaust port)**

---

Series VZM500
Series VZM500

Selector (2 position)
VZM550-01-34R/B/G/Y

Key selector (2 position)
VZM550-01-36

Push pull
VZM550-01-37
External pilot type
VZM551 type

With foot bracket
VZM55□-01-□□□-F

2-4.5 mounting hole

M5×0.8

(External pilot port)