5 Port Solenoid Valve
Body Ported
Series VZ3000

How to Order

<table>
<thead>
<tr>
<th>Body ported</th>
<th>VZ3</th>
<th>1</th>
<th>2</th>
<th>0</th>
<th>5</th>
<th>L</th>
<th>M5</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of actuation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2 position single</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2 position double</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3 position closed center</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>3 position exhaust center</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>3 position pressure center</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rated voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>9*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
</tr>
<tr>
<td>H</td>
</tr>
<tr>
<td>LN</td>
</tr>
<tr>
<td>L</td>
</tr>
<tr>
<td>M</td>
</tr>
<tr>
<td>MN</td>
</tr>
<tr>
<td>N</td>
</tr>
<tr>
<td>LO</td>
</tr>
<tr>
<td>MO</td>
</tr>
<tr>
<td>D</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Light/Surge voltage suppressor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z</td>
</tr>
<tr>
<td>S</td>
</tr>
<tr>
<td>L</td>
</tr>
</tbody>
</table>

Note) 1(P), 5(R1), 3(R2) port: M5 x 0.8
Note) The bracket and silencer are not assembled.

For details about certified products conforming to international standards, visit us at www.smcworld.com.
Series VZ3000

Applicable for cylinder actuation (up to ø40).
Compact size (Width: 15 mm)
Low power consumption: 1.8 W DC

Made to Order Specifications
(For details, refer to page 3-3-85.)

Refer to pages 3-3-24 to 3-3-27 for manifold use.

Specifications

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating pressure range (MPa)</td>
<td>0.15 to 0.7</td>
</tr>
<tr>
<td></td>
<td>0.1 to 0.7</td>
</tr>
<tr>
<td></td>
<td>0.15 to 0.7</td>
</tr>
<tr>
<td>Ambient and fluid temperature (°C)</td>
<td>~10 to 50°C (No freezing. Refer to page 3-13-4.)</td>
</tr>
<tr>
<td>Response time (ms) (1) (at the pressure of 0.5 MPa)</td>
<td>20 or less</td>
</tr>
<tr>
<td></td>
<td>35 or less</td>
</tr>
<tr>
<td>Max. operating frequency (Hz)</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Effective area</td>
<td>Refer to the table below.</td>
</tr>
<tr>
<td>Manual override (2)</td>
<td>Non-locking push type, Locking slotted type, Locking lever type</td>
</tr>
<tr>
<td>Pilot exhaust method</td>
<td>Individual pilot exhaust type, Common exhaust (pilot and main valve) type</td>
</tr>
<tr>
<td>Lubrication</td>
<td>Not required</td>
</tr>
<tr>
<td>Mounting orientation</td>
<td>Unrestricted</td>
</tr>
<tr>
<td>Impact/Vibration resistance (m/s²)</td>
<td>300/50</td>
</tr>
<tr>
<td>Enclosure</td>
<td>Dustproof</td>
</tr>
</tbody>
</table>

Note 1) Based on dynamic performance test, JIS B 8375-1981. (Coil temperature: 20°C, at rated voltage, without surge suppressor)
Note 2) When operating the locking type manually, apply torque of 0.2 N·m or less.
Note 3) Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)
Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)

Solenoid Specifications

<table>
<thead>
<tr>
<th>Electrical entry</th>
<th>Grommet (G)/(H), L plug connector (L), M plug connector (M), DIN terminal (D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coil rated voltage (V)</td>
<td>AC 50/60 Hz, 100, 200, 24°, 48°, 110°, 220°</td>
</tr>
<tr>
<td></td>
<td>DC 24, 6°, 12°, 48°</td>
</tr>
<tr>
<td>Allowable voltage fluctuation (%)</td>
<td>–15 to +10% of rated voltage</td>
</tr>
<tr>
<td>Power consumption (W)</td>
<td>DC 1.8 (With indicator light 2.1)</td>
</tr>
<tr>
<td>Apparent power (VA)</td>
<td>AC 4.5/50 Hz, 4.2/60 Hz</td>
</tr>
<tr>
<td></td>
<td>100 VAC: 45/50 Hz, 42/60 Hz</td>
</tr>
<tr>
<td></td>
<td>200 VAC: 22.5/50 Hz, 21/60 Hz</td>
</tr>
<tr>
<td></td>
<td>Holding 3.5/50 Hz, 3/60 Hz</td>
</tr>
<tr>
<td></td>
<td>100 VAC: 35/50 Hz, 30/60 Hz</td>
</tr>
<tr>
<td></td>
<td>200 VAC: 17.5/50 Hz, 15/60 Hz</td>
</tr>
<tr>
<td>Surge voltage suppressor</td>
<td>DC: Diode, AC: ZNR</td>
</tr>
<tr>
<td>Indicator light</td>
<td>DC: LED (Red), AC: Neon bulb</td>
</tr>
</tbody>
</table>

Note) At rated voltage

<table>
<thead>
<tr>
<th>Description</th>
<th>Part no.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>With foot bracket</td>
<td>DXT170-34-1B</td>
<td>For VZ312⁵</td>
</tr>
<tr>
<td>Silencer</td>
<td>AN120-M5</td>
<td>Noise reduction: 21dB or more (ø8 x 17 mm)</td>
</tr>
</tbody>
</table>
### Flow Characteristics/Weight

<table>
<thead>
<tr>
<th>Valve model</th>
<th>Type of actuation</th>
<th>Port size</th>
<th>Flow characteristics (Note)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VZ33000-20-M5</td>
<td>2 position</td>
<td>Single</td>
<td>C (dm³/(s·bar))</td>
<td>0.47</td>
</tr>
<tr>
<td></td>
<td>3 position</td>
<td>Closed center</td>
<td>b</td>
<td>0.49</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exhaust center</td>
<td>4/2 (P → A/B)</td>
<td>0.46</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressure center</td>
<td>4/2 (A/B → EA/EB)</td>
<td>0.49</td>
</tr>
<tr>
<td>VZ33000-20-C4</td>
<td>2 position</td>
<td>Single</td>
<td>C4 (1-touch fitting for ø4)</td>
<td>0.69</td>
</tr>
<tr>
<td></td>
<td>3 position</td>
<td>Closed center</td>
<td>Pressure center</td>
<td>0.56</td>
</tr>
<tr>
<td>VZ33000-20-C6</td>
<td>2 position</td>
<td>Single</td>
<td>C6 (1-touch fitting for ø8)</td>
<td>0.70</td>
</tr>
<tr>
<td></td>
<td>3 position</td>
<td>Closed center</td>
<td>Pressure center</td>
<td>0.72</td>
</tr>
</tbody>
</table>

*Note* [ ] Denotes the normal position. Exhaust center: 4/2 → 5/3, Pressure center: 1 → 4/2

### Cylinder Speed Chart

**Use as a guide for selection. Please confirm the actual conditions with SMC Sizing Program.**

<table>
<thead>
<tr>
<th>Series</th>
<th>Average speed (mm/s)</th>
<th>Bore size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Series CJ2</td>
<td>Series CM2</td>
</tr>
<tr>
<td></td>
<td>Pressure 0.5 MPa</td>
<td>Pressure 0.5 MPa</td>
</tr>
<tr>
<td></td>
<td>Load factor 50%</td>
<td>Load factor 50%</td>
</tr>
<tr>
<td></td>
<td>Stroke 60 mm</td>
<td>Stroke 300 mm</td>
</tr>
<tr>
<td>VZ3120-M5</td>
<td>ø6 ø10 ø16 ø20 ø25 ø32 ø40</td>
<td>Perpendicular, upward actuation</td>
</tr>
</tbody>
</table>

* It is when the cylinder is extending that is meter-out controlled by speed controller which is directly connected with cylinder, and its needle valve with being fully open.
* The average velocity of the cylinder is what the stroke is divided by the total stroke time.
* Load factor: ((Load weight x 9.8)/Theoretical force) x 100%

### Conditions

<table>
<thead>
<tr>
<th>Body ported</th>
<th>Series CJ2</th>
<th>Series CM2</th>
<th>Series MB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube bore x Length</td>
<td>ø4 x 1 m</td>
<td>ø6 x 1 m</td>
<td>ø8 x 1 m</td>
</tr>
<tr>
<td>Speed controller</td>
<td>AS1301F-04</td>
<td>AS3301F-06</td>
<td>AS3301F-08</td>
</tr>
<tr>
<td>Silencer</td>
<td>AN120-M5</td>
<td>AN110-01</td>
<td></td>
</tr>
</tbody>
</table>

3-3-19
Series VZ3000

Construction

2 position single

3 position closed center

3 position exhaust center

3 position pressure center

2 position double

3 position closed center/exhaust center/pressure center

(This figure shows a closed center type.)

Component Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Aluminum die-casted</td>
<td>Platinum silver</td>
</tr>
<tr>
<td>2</td>
<td>Piston plate</td>
<td>Resin</td>
<td>Black</td>
</tr>
<tr>
<td>3</td>
<td>Piston</td>
<td>Resin</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Spool valve</td>
<td>Aluminum, HNBR</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>End cover</td>
<td>Resin</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Spool spring</td>
<td>Stainless steel</td>
<td></td>
</tr>
</tbody>
</table>

Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Part no.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Solenoid assembly</td>
<td>Epoxy/Stainless steel</td>
<td>OXT170-C-□□□□</td>
<td>Common with Series VZ3000</td>
</tr>
<tr>
<td>8</td>
<td>O-ring</td>
<td>NBR</td>
<td>13 x 11 x 1</td>
<td></td>
</tr>
</tbody>
</table>
**5 Port Solenoid Valve**

**Body Ported Series VZ3000**

---

### 2 Position Single

**Grommet (G), (H)**

VZ3120-□□□□-M5

<table>
<thead>
<tr>
<th>Component</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ø2.6 (Mounting hole for manifold)</td>
<td>71.5</td>
</tr>
<tr>
<td>2-M3x0.5 (Mounting screw)</td>
<td>10</td>
</tr>
<tr>
<td>Manual override (Non-locking)</td>
<td>19</td>
</tr>
</tbody>
</table>

---

### L plug connector (L)

VZ3120-□□□□-L□□□-M5

<table>
<thead>
<tr>
<th>Dimensions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>73.5</td>
<td>300</td>
</tr>
</tbody>
</table>

---

### M plug connector (M)

VZ3120-□□□□-M□□□-M5

<table>
<thead>
<tr>
<th>Dimensions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>88</td>
<td>300</td>
</tr>
</tbody>
</table>

---

### DIN terminal (D)

VZ3120-□□□□-D□□□-M5

<table>
<thead>
<tr>
<th>Dimensions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>90.5</td>
<td>MAX. 10</td>
</tr>
</tbody>
</table>

---

### Built-in One-touch fittings

VZ3120-□□□□-□□□□-□

2-One-touch fitting

- Applicable tubing model
  - C4: T0425
  - C6: T0604

---

With light/surge voltage suppressor
Series VZ3000

2 Position Double

**Grommet (G), (H)**
VZ3220-□□□-M5

**L plug connector (L)**
VZ3220-□□□-M5

**M plug connector (M)**
VZ3220-□□□-M5

**DIN terminal (D)**
VZ3220-□□□-M5

**Built-in One-touch fittings**
VZ3220-□□□□-C6

- Manual override (Non-locking)
- 2-Ø2.6
- Mounting hole for manifold
- G: 300 mm
- H: 600 mm
- (Lead wire length)
- (Mounting hole)
- 2-M5×0.8
- (PE port)
- 5-M5×0.8
- (Piping port)

- Applicable cable O.D.
  - ø3.5 to ø7

- MAX. 10
  - Applicable tubing model
  - C4: T0425
  - C6: T0604

- With light/surge voltage suppressor

- 2-One-touch fitting (A, B port)

---

3-3-22

SMT
3 Position Closed Center/Exhaust Center/Pressure Center

Grommet (G), (H)
VZ3 3/4 20-□□□□-M5

L plug connector (L)
VZ3 3/4 20-□□□□-M5

DIN terminal (D)
VZ3 3/4 20-□□□□-M5

M plug connector (M)
VZ3 3/4 20-□□□□-M5

Built-in One-touch fittings
VZ3 3/4 20-□□□□-□□

Manual override
(Non-locking)

2-o2.6
(Mounting hole for manifold)

2-M5 x 0.8 (PE port)

5-M5 x 0.8 (Piping port)

With light/surge voltage suppressor

Applicable cable O.D.
ø3.5 to ø7

Applyble tubing model
C4: T0425
C6: T0604

Mounting hole for manifold

G: 300 mm
H: 600 mm

(Lead wire length)

≅ 300

Mounting hole

2-M5 x 0.8 (PE port)

(Lead wire length)

Zero-voltage

Series VZ3000

5 Port Solenoid Valve
Body Ported

SMC
# 5 Port Solenoid Valve
## Base Mounted
## Series VZ3000

### How to Order

<table>
<thead>
<tr>
<th>Type of actuation</th>
<th>Body option</th>
<th>Rated voltage</th>
<th>Electrical entry</th>
<th>Light/Surge voltage suppressor</th>
<th>Manual override</th>
<th>Port size</th>
<th>Thread type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug-in VZ3</td>
<td>1</td>
<td>100 VAC, 50/60 Hz</td>
<td>G: Lead wire length 300 mm</td>
<td>Nil</td>
<td>01: With sub-plate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non plug-in VZ3</td>
<td>0</td>
<td>110 VAC, 50/60 Hz</td>
<td>H: Lead wire length 600 mm</td>
<td>Z</td>
<td>Without light/surge voltage suppressor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Note
- Please contact SMC in the case of without indicator light.
- Not available for “GZ”, “HZ” and “DOZ”

---

**Type “LN”, “MN”: With 2 sockets.**
**Series VZ3000**

Applicable for cylinder actuation (up to Ø40).

**Compact size**
(Width: 15 mm)

**Low power consumption:** 1.8 W DC

---

### Specifications

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating pressure range (MPa)</td>
<td>2 position single 0.15 to 0.7</td>
</tr>
<tr>
<td></td>
<td>2 position double 0.1 to 0.7</td>
</tr>
<tr>
<td></td>
<td>3 position 0.15 to 0.7</td>
</tr>
<tr>
<td>Ambient and fluid temperature (°C)</td>
<td>–10 to 50°C (No freezing. Refer to page 3-13-4.)</td>
</tr>
<tr>
<td>Response time (ms) (at the pressure of 0.5 MPa)</td>
<td>2 position single, double 20 or less</td>
</tr>
<tr>
<td></td>
<td>3 position 35 or less</td>
</tr>
<tr>
<td>Max. operating frequency (Hz)</td>
<td>2 position single, double 10</td>
</tr>
<tr>
<td></td>
<td>3 position 3</td>
</tr>
</tbody>
</table>

**Manual override**
- Non-locking push type, Locking slotted type, Locking lever type

**Pilot exhaust method**
- Individual pilot exhaust type, Common exhaust (pilot and main valve) type

**Lubrication**
- Not required

**Mounting orientation**
- Unrestricted

**Impact/Vibration resistance (m/s²)**
- 300/50

**Enclosure**
- Dustproof

---

**Note 1)** Based on dynamic performance test, JIS B 8375-1981. (Coil temperature: 20°C, at rated voltage, without surge suppressor)

**Note 2)** When operating the locking type manually, apply torque of 0.2 N·m or less.

**Note 3)** Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)

---

### Solenoid Specifications

- **Electrical entry**
  - Grommet (G)/(H), L plug connector (L), M plug connector (M), DIN terminal (D)

- **Coil rated voltage (V)**
  - AC 50/60 Hz: 100, 200, 24*, 48*, 110*, 220*
  - DC: 24*, 6*, 12*, 48*

- **Allowable voltage fluctuation (%)**
  - –15 to +10% of rated voltage

- **Power consumption (W) (1)**
  - [Current mA]
    - DC: 1.8 (With indicator light 2.1)
      - [24 VDC: 75 (With indicator light 87.5)]

- **Apparent power (VA) (1)**
  - [Current mA] (Note)
    - AC: 4.5/50 Hz, 4.2/60 Hz |
      - Inrush: 100 VAC: 45/50 Hz, 42/60 Hz
      - Holding: 200 VAC: 22.5/50 Hz, 15/60 Hz
    - 3.5/50 Hz, 3/60 Hz |
      - 100 VAC: 35/50 Hz, 30/60 Hz
      - 200 VAC: 17.5/50 Hz, 15/60 Hz

- **Surge voltage suppressor**
  - DC: Diode, AC: ZNR (2)

- **Indicator light**
  - DC: LED (Red), AC: Neon bulb

---

**Note 1)** At rated voltage

**Note 2)** Plug-in should be ZNR.

---

### Made to Order Specifications

(For details, refer to page 3-3-85.)

---

**Round head combination screw**
- M2.5 x 25
  - (With spring washer)

---

**Gasket**
- DXT192-10-5
  - (Use caution to the orientation.)

---

Refer to pages 3-3-37 to 3-3-52 for manifold use.
### Flow Characteristics/Weight

**Valve model** | **Type of actuation** | **Port size** | **Flow characteristics** | **Weight (g)**
---|---|---|---|---
VZ3040-01 | Single/Double | Rc 1/8 | 0.79/0.80 | 125 (75) 170 (120)

**Valve model** | **Type of actuation** | **Port size** | **Flow characteristics** | **Weight (g)**
---|---|---|---|---
VZ3040-01 | Single/Double | Rc 1/8 | 0.79/0.80 | 125 (75) 170 (120)

---

**Note 1** [ ] Denotes the normal position. Exhaust center: 4/2/5/3, Pressure center: 1/2/4/2

**Note 2** ( ) Without sub-plate.

### Cylinder Speed Chart

Use as a guide for selection. Please confirm the actual conditions with SMC Sizing Program.

<table>
<thead>
<tr>
<th>Series</th>
<th>Average speed (mm/s)</th>
<th>Bore size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VZ314</td>
<td>800</td>
<td>ø20 ø25 ø32 ø40</td>
</tr>
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</tr>
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<td>800</td>
<td>ø20 ø25 ø32 ø40</td>
</tr>
</tbody>
</table>

**Note** It is when the cylinder is extending that is meter-out controlled by speed controller which is directly connected with cylinder, and its needle valve with being fully open.

**Note** The average velocity of the cylinder is what the stroke is divided by the total stroke time.

**Note** Load factor: ((Load weight x 9.8)/Theoretical force) x 100%
Built-in Speed Controllers

**VZ3□□□**

- An exhaust throttle valve is built into the solenoid valve itself, enabling a simple speed adjustment of the cylinder.
- If it is mounted on a manifold base, the exhaust air will converge in the common EXH port at the manifold base, thus simplifying the handling of the exhaust air.

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**How to Order Valve with Built-in Speed Controller**

<table>
<thead>
<tr>
<th>Type of actuation</th>
<th>Electrical entry</th>
<th>Rated voltage</th>
<th>Body option</th>
<th>Thread type</th>
<th>Port size</th>
<th>Manual override</th>
<th>Light/Surge voltage suppressor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non plug-in VZ3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Throttle Valve Characteristics**

- **JIS Symbol**
  - (B) (A)
  - (Single)

**Note**
- To use the VZ3□□□, open the throttle valve one turn or more from the fully closed position.
- To adjust the throttle valve apply torque of 0.3 N·m or less.
- Be careful not to open the throttle valve excessively as this could cause the throttle valve to fly out.
**5 Port Solenoid Valve**  
**Base Mounted**  
**Series VZ3000**

### Component Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Aluminum die-casted</td>
<td>Platinum silver</td>
</tr>
<tr>
<td>2</td>
<td>Piston plate</td>
<td>Resin</td>
<td>Black</td>
</tr>
<tr>
<td>3</td>
<td>Piston</td>
<td>Resin</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Spool valve</td>
<td>Aluminum, HNBR</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>End cover</td>
<td>Resin</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Spool spring</td>
<td>Stainless steel</td>
<td></td>
</tr>
</tbody>
</table>

### Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Part no.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Sub-plate</td>
<td>Aluminum die-casted</td>
<td>DXT192-14-1-P</td>
<td>Platinum silver</td>
</tr>
<tr>
<td>8</td>
<td>Solenoid assembly</td>
<td>Epoxy/Stainless steel</td>
<td>DXT170-C-xxxx</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>O-ring</td>
<td>NBR</td>
<td>13 x 11 x 1</td>
<td>Common with Series VZ 1000</td>
</tr>
</tbody>
</table>

*(This figure shows a closed center type.)*

**Thread type:**
- Nil: Rc
- F: G
- N: NPT
- T: NPTF
Series VZ3000

2 Position Single

Grommet (G), (H)
VZ3140-L□□□-01

L plug connector (L)
VZ3140-L□□□-01

M plug connector (M)
VZ3140-M□□□-01

DIN terminal (D)
VZ3140-D□□□-01

Built-in speed controllers
VZ3150-□□□□

With light/surge voltage suppressor

Applicable cable O.D.
ø3.5 to ø7

MAX:10

P:7

19.4 10.3

3-3-34
5 Port Solenoid Valve
Base Mounted Series VZ3000

2 Position Double

Grommet (G), (H)
VZ3240-□□□-01

L plug connector (L)
VZ3240-□L□-01

M plug connector (M)
VZ3240-□M□-01

DIN terminal (D)
VZ3240-□D□-01

Built-in speed controllers
VZ3250-□□□□

Series VZ3000
5 Port Solenoid Valve
Base Mounted

Applicable cable O.D. ø3.5 to ø7

With light/surge voltage suppressor

Voltage (VFR)

SMC
Series VZ3000

3 Position Closed Center/Exhaust Center/Pressure Center

Grommet (G), (H)
VZ3\frac{3}{5} 20-□□-01

M plug connector (M)
VZ3\frac{3}{5} 40-□□-01

Built-in speed controllers
VZ3\frac{3}{5} 50-□□□

L plug connector (L)
VZ3\frac{3}{5} 40-□□-01

DIN terminal (D)
VZ3\frac{3}{5} 40-□□□-01

- With light/surge voltage suppressor
- Applicable cable O.D.: ø3.5 to ø7
- ð: Mounting hole
- ≅: Lead wire length
- MAX.: Maximum
- 2-M5 x 0.8 (PE port)
- 4-Rc 1/8 (Piping port)
- 37.5, 49.5, 47.5 (Mounting hole hole pitch)
- 73, 55.5 (Mounting hole pitch)

G: 300 mm
H: 600 mm

Mounting hole pitch

SMC
Series VZ
Made to Order Specifications:
Please contact SMC for detailed specifications, dimensions, and delivery.

1. Solenoid Valve: External Pilot Specifications

Applicable solenoid valve series
VZ3000/5000
(Non plug-in type only)

Model no.
VZ350000–X20
 Entry is the same as standard products.

Specifications

<table>
<thead>
<tr>
<th>Operating pressure range (MPa)</th>
<th>Main pressure</th>
<th>External pilot pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>–100 kPa to 0.7</td>
<td>0.15 to 0.7</td>
</tr>
</tbody>
</table>

Pilot exhaust method: Pilot valve individual exhaust

Dimensions

VZ3000: 8 mm longer
VZ5000: 8 mm longer

JIS Symbol

Body ported
2 position single

3 position closed center

2 position double

3 position exhaust center

3 position pressure center
Series VZ

Made to Order Specifications:
Please contact SMC for detailed specifications, dimensions, and delivery.

2. Solenoid Valve: Special Manual Override

Applicable solenoid valve series
VZ3000
(Non plug-in type only)

Model no.
VZ3

Dimensions: Single

Push type A

Push-locking type E

Caution

When operating the lock with the driver, use a watchmakers’ screwdriver and turn lightly.
(Torque: 0.1 N·m or less)

Note) Because the manual override unit protrudes, the manual override could activate unintentionally if the protrusion is touched or an object falls on it. Therefore, take the proper preventative measures.

3. Solenoid Valve: Opposite Mount of Solenoid Assembly

Applicable solenoid valve series
VZ1000/3000/5000
(Non plug-in type only)

Model no.
VZ1 3/5

Entry is the same as standard products.

Dimensions: VZ1120-G-M5-X1

Applicable solenoid valve series
VZ3000
(Non plug-in type only)

Model no.
VZ3

Entry is the same as standard products.

Dimensions: Single

Push type A

Push-locking type E

Note) Because the manual override unit protrudes, the manual override could activate unintentionally if the protrusion is touched or an object falls on it. Therefore, take the proper preventative measures.