Flat Ribbon Cable Manifold Specifications

**Manifold Standard**

**Manifold Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Type 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manifold type</td>
<td>Single base/B mount</td>
</tr>
<tr>
<td>P(SUP)/R(EXH)</td>
<td>Common SUP/Common EXH</td>
</tr>
<tr>
<td>Valve stations</td>
<td>2 to 20 stations</td>
</tr>
<tr>
<td>4(A), 2(B) port location</td>
<td>Valve</td>
</tr>
</tbody>
</table>

**Port size**

| 1(P), 3/5(R) port | M5 x 0.8, C4, C6 |
| 4(A), 2(B) port | |

**Flow Characteristics**

<table>
<thead>
<tr>
<th>Manifold</th>
<th>Type 20P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve stations</td>
<td>3 to 12 stations</td>
</tr>
<tr>
<td>Port size</td>
<td>M5 x 0.8, C4, C6</td>
</tr>
</tbody>
</table>

**How to Order Manifold**

Instruct by specifying the valves and blanking plate assembly to be mounted on the manifold along with the manifold base model no.

(Example) VVZ523-20-031.............. 1 pc. (Manifold base)

+ VZ3120-5G-M5........... 2 pcs. (Valve)
+ DXT192-13-1A ........... 1 pc. (Blanking plate assembly)

*The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.*

**Flow Characteristics**

<table>
<thead>
<tr>
<th>Manifold</th>
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<tbody>
<tr>
<td>1(P), 3/5(R) port</td>
<td>M5 x 0.8</td>
<td>0.46 0.39 0.12 0.75 0.32 0.19</td>
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<tr>
<td>4(A), 2(B) port</td>
<td>C4</td>
<td>0.62 0.33 0.16 0.83 0.27 0.20</td>
</tr>
<tr>
<td>1/8</td>
<td>C6</td>
<td>0.79 0.36 0.21 0.91 0.36 0.24</td>
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**How to Order Manifold**

Instruct by specifying the valves, blanking plate assembly and connector assembly to be mounted on the manifold along with the manifold base model no.

(Example) VVZ523-20P-07................... 1 pc. (Manifold base)

+ VZ3123-5MOZ-C4............ 3 pcs. (Valve)
+ VZ3223-5MOZ-C4............ 3 pcs. (Valve)
+ DXT192-13-3A................. 1 pc. (Blanking plate assembly)
+ DXT192-52-1-4A.............. 3 pcs. (Connector assembly)
+ DXT192-52-2-4A.............. 3 pcs. (Connector assembly)

*The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.*

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<td>C6</td>
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</tr>
</tbody>
</table>
**Common SUP/Common EXH**

**Type 20**

**How to Order**

VV5Z3 – 20  

![Diagram](image)

**Stations**

- 01 2 stations  
- 20 20 stations  
- 35 (R) port Rc 1/8

**Applicable solenoid valve**

VZ3L22-3  

**Applicable blanking plate assembly**

DXT192-13-1A  

**Individual EXH spacer assembly**

DXT192-21-1A  

**Individual SUP spacer assembly**

DXT192-40-2A

---

**Flat Ribbon Cable Type 20P**

**How to Order**

VV5Z3 – 20P  

![Diagram](image)

**Stations**

- 03 3 stations  
- 12 12 stations  
- 35 (R) port Rc 1/8

**Applicable solenoid valve**

VZ3L22-3  

**Applicable blanking plate assembly**

DXT192-13-3A  

**Applicable connector assembly**

DXT192-52-1A  

Round head combination screw

M2.5 x 7 (With spring washer)

---

**Option**

**Combinations of Solenoid Valve, Gasket and Manifold Base**

**Blanking Plate Assembly**

DXT192-13-1A

**Applicable base**

VV5Z3-20  

VV5Z3-20P  

VV5Z3-21

---

**Individual EXH Spacer Assembly**

DXT192-21-1A

**Individual SUP Spacer Assembly**

DXT192-40-2A

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**Caution**

**Mounting Screw Tightening Torques**

M2.5: 0.45 N·m

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**Installation of the VZ300 Valve on the VZ3000 Manifold**

- Use of an adaptor plate makes it possible to mount Series VZ300 on the manifold base of Series VZ3000.
- The mounting direction is shown in the diagram below. Mount the solenoid so that it will be on the same side as the single solenoid of the Series VZ3000.

---

**Note**

Please contact SMC when using an individual SUP spacer assembly, an individual EXH spacer assembly, or an adapter plate assembly on type 20P.
Type 20 Manifold

VV5Z3-20

Grommet (G), (H)

Stations

<table>
<thead>
<tr>
<th>Stations</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>L₁</td>
<td>58</td>
<td>74</td>
<td>90</td>
<td>106</td>
<td>122</td>
<td>138</td>
<td>154</td>
<td>170</td>
<td>186</td>
<td>202</td>
<td>218</td>
<td>234</td>
<td>250</td>
<td>266</td>
<td>282</td>
<td>298</td>
<td>314</td>
<td>330</td>
<td>346</td>
</tr>
<tr>
<td>L₂</td>
<td>40</td>
<td>56</td>
<td>72</td>
<td>88</td>
<td>104</td>
<td>120</td>
<td>136</td>
<td>152</td>
<td>168</td>
<td>184</td>
<td>200</td>
<td>216</td>
<td>232</td>
<td>248</td>
<td>264</td>
<td>280</td>
<td>296</td>
<td>312</td>
<td>328</td>
</tr>
</tbody>
</table>

L plug connector (L)  M plug connector (M)  DIN terminal (D)  Built-in One-touch fittings

With light/surge voltage suppressor
Type 20P Flat Ribbon Cable Manifold

VV5Z3-20P-Station

Manual override (Non-locking)
2n-M5×0.8
4(A), 2(B) port

(Light/Surge voltage suppressor)
Triangle mark

Connector polarity indicator
Applicable connector: 26 pins MIL
(Conforming to MIL-C-83503)

Built-in One-touch fittings

<table>
<thead>
<tr>
<th>Stations</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>77</td>
<td>94.5</td>
<td>112</td>
<td>129.5</td>
<td>147</td>
<td>164.5</td>
<td>182</td>
<td>199.5</td>
<td>217</td>
<td>234.5</td>
</tr>
<tr>
<td>L2</td>
<td>59</td>
<td>76.5</td>
<td>94</td>
<td>111.5</td>
<td>129</td>
<td>146.5</td>
<td>164</td>
<td>181.5</td>
<td>199</td>
<td>216.5</td>
</tr>
</tbody>
</table>
Series VZ3000/Base Mounted Manifold Specifications

**Manifold Standard**

### Manifold Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Type 40</th>
<th>Type 41</th>
<th>Type 42</th>
<th>Type 43</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manifold type</td>
<td>Single base/B mount</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P(SUP)/R(EXH)</td>
<td>Common SUP/Common EXH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valve stations</td>
<td>2 to 20 stations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4(A), 2(B) port Porting specifications</td>
<td>Position</td>
<td>Base</td>
<td>Base</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Direction</td>
<td>Side</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1(P), 3(S/R) port</td>
<td>Rc 1/8</td>
<td>Rc 1/4</td>
<td>Rc 1/8</td>
<td></td>
</tr>
<tr>
<td>4(A), 2(B) port</td>
<td>M5 x 0.8</td>
<td>C6</td>
<td>C6</td>
<td>B7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(One-touch fitting for ø6)</td>
<td>(One-touch fitting for ø6)</td>
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</tr>
</tbody>
</table>

#### Flow Characteristics

<table>
<thead>
<tr>
<th>Manifold</th>
<th>Port size</th>
<th>Flow characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>VV5Z4-40</td>
<td>1/8</td>
<td>M5 x 0.8 0.55 0.35 0.15 0.64 0.28 0.16</td>
</tr>
<tr>
<td>VV5Z4-41</td>
<td>1/8</td>
<td>M5 x 0.8 0.59 0.35 0.16 0.68 0.23 0.17</td>
</tr>
<tr>
<td>VV5Z4-42</td>
<td>1/4 1/8</td>
<td>0.71 0.22 0.18 0.82 0.31 0.21</td>
</tr>
<tr>
<td>VV5Z4-C6</td>
<td>1/4 1/8</td>
<td>0.71 0.22 0.18 0.82 0.31 0.21</td>
</tr>
<tr>
<td>VV5Z4-C4</td>
<td>1/8 C4</td>
<td>0.55 0.29 0.14 0.74 0.32 0.19</td>
</tr>
</tbody>
</table>

**Note:** Value at manifold base mounted, 2 position single operating

### How to Order Manifold

Instruct by specifying the valves and blanking plate assembly to be mounted on the manifold along with the manifold base model no.

**Example VV5Z3-40-031:** 1 pc. (Manifold base)

- VZ3-143-5MOZ...3 pcs. (Valve)
- DXT192-13-1A...1 pc. (Blanking plate assembly)
- DXT192-13-2A...3 pcs. (Connector assembly)

### Flat Ribbon Cable Manifold

- **One-touch wiring to consolidate connection of external wires.**
- **Clean appearance**

The flat cable provides wiring on a printed circuit board to the individual valves at the manifold base, enabling the consolidation of external wiring at a touch through a 26 pins MIL connector.

### Flat Ribbon Cable Manifold Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Type 41P</th>
<th>Type 43P</th>
</tr>
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<tbody>
<tr>
<td>Manifold type</td>
<td>Single base/B mount</td>
<td></td>
</tr>
<tr>
<td>P(SUP), R(EXH)</td>
<td>Common SUP/Common EXH</td>
<td></td>
</tr>
<tr>
<td>Valve stations</td>
<td>3 to 12 stations</td>
<td></td>
</tr>
<tr>
<td>4(A), 2(B) port Porting location</td>
<td>Port size</td>
<td>Flow characteristics</td>
</tr>
<tr>
<td></td>
<td>1(P), 3(S/R) port</td>
<td>Rc 1/8</td>
</tr>
<tr>
<td></td>
<td>4(A), 2(B) port</td>
<td>M5 x 0.8</td>
</tr>
<tr>
<td>Applicable flat ribbon cable connector</td>
<td>Socket: 26 pins MIL with strain relief (Conforming to MIL-C-83503)</td>
<td></td>
</tr>
<tr>
<td>Internal wiring</td>
<td>+COM specifications (For –COM specifications, specify them separately.)</td>
<td></td>
</tr>
<tr>
<td>Applicable valve model</td>
<td>VZ343P-MOZ-VZ343P-MOZ</td>
<td></td>
</tr>
</tbody>
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**Note:** Withstand voltage specifications of wiring unit part is equivalent to JIS C 0704 class 1.

### Flow Characteristics

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<td>1/8</td>
<td>M5 x 0.8 0.59 0.35 0.16 0.68 0.23 0.17</td>
</tr>
<tr>
<td>VV5Z4-43P</td>
<td>1/8</td>
<td>C4</td>
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</table>

**Note:** Value at manifold base mounted, 2 position single operating

### How to Order Manifold

Instruct by specifying the valves, blanking plate assembly and connector assembly to be mounted on the manifold along with the manifold base model no.

**Example VV5Z3-43P-07-C4:** 1 pc. (Manifold base)

- VZ343P-MOZ...3 pcs. (Valve)
- DXT192-13-2A...3 pcs. (Connector assembly)

The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.
### Series VZ3000

**Common SUP/Common EXH**

*Note:* For more than 8 stations, supply air to both sides of 1(P) port and exhaust air from both sides of 3/5(R) port.

#### Type 40

<table>
<thead>
<tr>
<th>How to Order</th>
<th>VV5Z3 – 40</th>
<th>05</th>
<th>2 – M5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stations</td>
<td>02 2 stations</td>
<td>20 20 stations</td>
<td></td>
</tr>
<tr>
<td>4(A), 2(B) port size</td>
<td>M5 M5 x 0.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1(P), 3/5(R) port thread type</td>
<td>N R Rc</td>
<td></td>
<td></td>
</tr>
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</table>

#### Type 41

<table>
<thead>
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<th>How to Order</th>
<th>VV5Z3 – 41</th>
<th>05</th>
<th>1 – M5</th>
</tr>
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<tbody>
<tr>
<td>Stations</td>
<td>02 2 stations</td>
<td>20 20 stations</td>
<td></td>
</tr>
<tr>
<td>4(A), 2(B) port size</td>
<td>M5 M5 x 0.8</td>
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<td></td>
</tr>
<tr>
<td>1(P), 3/5(R) port thread type</td>
<td>N R Rc</td>
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<td></td>
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</table>

#### Type 42

<table>
<thead>
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<th>How to Order</th>
<th>VV5Z3 – 42</th>
<th>05</th>
<th>1 – C6</th>
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<tr>
<td>Stations</td>
<td>02 2 stations</td>
<td>20 20 stations</td>
<td></td>
</tr>
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<td>C6 C6</td>
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<td></td>
</tr>
<tr>
<td>1(P), 3/5(R) port thread type</td>
<td>N R Rc</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Type 43

<table>
<thead>
<tr>
<th>How to Order</th>
<th>VV5Z3 – 43</th>
<th>05</th>
<th>1 – C4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stations</td>
<td>02 2 stations</td>
<td>20 20 stations</td>
<td></td>
</tr>
<tr>
<td>4(A), 2(B) port size</td>
<td>C4 C4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1(P), 3/5(R) port thread type</td>
<td>N R Rc</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Flat ribbon cable type 41P

<table>
<thead>
<tr>
<th>How to Order</th>
<th>VV5Z3 – 41P</th>
<th>05</th>
<th>M5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stations</td>
<td>03 3 stations</td>
<td>12 12 stations</td>
<td></td>
</tr>
<tr>
<td>4(A), 2(B) port size</td>
<td>M5 M5 x 0.8</td>
<td></td>
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</tr>
<tr>
<td>1(P), 3/5(R) port thread type</td>
<td>N R Rc</td>
<td></td>
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</table>

#### Flat ribbon cable type 43P

<table>
<thead>
<tr>
<th>How to Order</th>
<th>VV5Z3 – 43P</th>
<th>05</th>
<th>C4</th>
</tr>
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<tbody>
<tr>
<td>Stations</td>
<td>03 3 stations</td>
<td>12 12 stations</td>
<td></td>
</tr>
<tr>
<td>4(A), 2(B) port size</td>
<td>C4 C4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1(P), 3/5(R) port thread type</td>
<td>N R Rc</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Applicable solenoid valve

- VZ3C34C-□□□□□□□
- VZ3C5□□□□□□□

#### Applicable blanking plate assembly

- DXT192-13-1A
- DXT192-21-1A
- DXT192-40-1A

#### Applicable connector assembly (Except VV5Z3-40 type)

- DXT192-52-1-□
- DXT192-52-2-□

#### Applicable interface regulator

- ARBZ3000-00-P

For “How to order applicable connector assemblies”, refer to page 3-3-7.
DIN Rail Manifold

Manifold Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Type 45</th>
<th>Type 45F</th>
</tr>
</thead>
<tbody>
<tr>
<td>P(SUP), R(EXH)</td>
<td>Stacking type non plug-in type</td>
<td>Stacking type plug-in type</td>
</tr>
<tr>
<td>Valve stations</td>
<td>2 to 20 stations</td>
<td></td>
</tr>
<tr>
<td>A, B port Porting specifications</td>
<td>Location Base Side</td>
<td>C8 (One-touch fitting for ø8)</td>
</tr>
<tr>
<td>Port size 4(A), 2(B) port</td>
<td>4(A), 2(B) port</td>
<td></td>
</tr>
<tr>
<td>Port size</td>
<td>1(P), 3/5(R) port</td>
<td></td>
</tr>
<tr>
<td>Connector</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>Internal wiring</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>Note) Value at manifold base mounted, 2 position single operating</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Flow Characteristics

<table>
<thead>
<tr>
<th>Manifold</th>
<th>Port size</th>
<th>Flow characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>VV5Z3-45</td>
<td>C8</td>
<td>0.59 0.28 0.15 0.83 0.34 0.22</td>
</tr>
<tr>
<td></td>
<td>C4</td>
<td>0.76 0.23 0.18 0.86 0.29 0.22</td>
</tr>
</tbody>
</table>

Note) Value at manifold base mounted, 2 position single operating

How to Order Manifold

Instruct by specifying the valves and blanking plate assembly to be mounted on the manifold along with the manifold base model no.

(Example) VV5Z3-45FD-06-C6C-1 pc. (Manifold base) +VZ343FZ-———2 pcs. (Valve) +VZ343FZ-———3 pcs. (Valve) +VZ3000-69-1A-———1 pc. (Blanking plate assembly)

The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

DIN Rail Manifold

Common SUP/Common EXH

Type 45 (Non plug-in type) How to Order

VV5Z3 – 45 [D] [C6] [C] [05]

Stations

- U side: 2 to 10 stations
- D side: 2 to 10 stations
- Both sides: 2 to 20 stations

SUP/EXH block mounting position

- U: U side: 2 to 10 stations
- D: D side: 2 to 10 stations
- B: Both sides: 2 to 20 stations

M * Special specifications

* For special specifications, indicate separately by the manifold specification sheet.

Applicable solenoid valve

VZ304C-06-C6C

Applicable blanking plate assembly

VZ3000-69-2A

DIN rail length specified

Nil

Standard length

For 2 to 10 stations: One side
For 11 to 20 stations: Both sides

Type 45F (Plug-in type) How to Order

VV5Z3 – 45F [D] [05]

Stations

- U: U side: 2 to 10 stations
- D: D side: 2 to 10 stations
- B: Both sides: 11 to 20 stations

SUP/EXH block mounting position

- U: U side: 2 to 10 stations
- D: D side: 2 to 10 stations
- B: Both sides: 11 to 20 stations

M * Special specifications

* For special specifications, indicate separately by the manifold specification sheet.

Applicable solenoid valve

VZ304C-06-C6C

Applicable blanking plate assembly

VZ3000-69-1A

DIN rail length specified

Nil

Standard length

For 3 stations (Specify a longer rail than the standard length.)

For 20 stations (Specify a longer rail than the standard length.)
Caution

Applicable base
VV5Z3-40
VV5Z3-41
VV5Z3-42
VV5Z3-43
VV5Z3-41P
VV5Z3-43P

Gasket

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

DXT192-21-1A
Applicable base
VV5Z3-40
VV5Z3-41
VV5Z3-42
VV5Z3-43

Spring washer
for M2.5

Round head
combination
screw
DXT170-33-3
(M2.5 x 36)

Gasket

3(R2)
DXT192-10-2
Individual EXH
spacer

2-M5x0.8
(5(R1), 3(R2)
port)

DXT192-21-1

Individual EXH Spacer Assembly

DXT192-40-1A
Applicable base
VV5Z3-40
VV5Z3-41
VV5Z3-42
VV5Z3-43

Spring washer
for M2.5

Round head
combination
screw
M2.5 x 40.5

Gasket

DXT192-10-2
Individual EXH
spacer

DXT192-40-1

Individual SUP Spacer Assembly

DXT192-10-3A
Applicable base
VV5Z3-40
VV5Z3-41
VV5Z3-42
VV5Z3-43

Round head
combination screw
M2.5 x 7
(With spring washer)

Blanking plate
DXT192-13-2

Gasket

DXT192-10-2

DXT192-13-1A
Applicable base
VV5Z3-40
VV5Z3-41
VV5Z3-42
VV5Z3-43

Round head
combination screw
M2.5 x 7
(With spring washer)

Blanking plate
DXT192-13-2

Gasket

DXT192-10-2

Dust cap
VJ3000-57-1

Applicable base
VV5Z3-41P
VV5Z3-43P

Interface regulator (P port
regulation)

Interface regulator can be placed on top of
the manifold base to reduce the pressure of
each of the valves.

ARBZ3000-00-P

Round head
combination screw
M2.5 x 45
(With spring washer)

Gasket

DXT192-10-8

Applicable base
VV5Z3-40
VV5Z3-41
VV5Z3-42
VV5Z3-43

Before using, refer to page 3-3-8.

Caution

Mounting Screw Tightening Torques M2.5: 0.45 N·m
5 Port Solenoid Valve
Base Mounted Series VZ3000

Option/DIN Rail Manifold

Blanking Plate Assembly
VZ3000-69-2A

<table>
<thead>
<tr>
<th>Applicable base</th>
<th>VV5Z3-45</th>
</tr>
</thead>
</table>

Round head combination screw
M2.5×7
(With spring washer)
Blanking plate
DXT192-13-2

Gasket
DXT192-10-5

Caution
Mounting Screw Tightening Torques
M2.5: 0.32 N·m
(For stacking type manifold)

Combination of Solenoid Valve, Gasket and Manifold Base

<table>
<thead>
<tr>
<th>Applicable base</th>
<th>VV5Z3-45F</th>
</tr>
</thead>
</table>

Round head combination screw
M2.5×25
(With spring washer)

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

Applicable Plug Assembly (D-sub connector cable assembly)

<table>
<thead>
<tr>
<th>Cable length</th>
<th>Assembly part no.</th>
<th>Component parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 m</td>
<td>VVZS3000-21A-1</td>
<td>Plug MIL standard</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of terminals: 25</td>
</tr>
<tr>
<td>3 m</td>
<td>VVZS3000-21A-2</td>
<td>Cable: 25 cores x 0.3 mm²</td>
</tr>
<tr>
<td>5 m</td>
<td>VVZS3000-21A-3</td>
<td></td>
</tr>
<tr>
<td>8 m</td>
<td>VVZS3000-21A-4</td>
<td></td>
</tr>
</tbody>
</table>

For details, refer to page 3-3-8.

VZ3000-69-1A

Round head combination screw
M2.5×7
(With spring washer)
Blanking plate
DXT192-13-2

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

Dust cap
VV5000-63-1

Applicable base
VV5Z3-45F

SUP Block Disk
By installing a SUP block disk in the pressure supply passage of a manifold valve, it is possible to supply two or more different high and low pressures to one manifold.
VZ3000-79-1A

EXH Block Disk
By installing an EXH block disk in the exhaust passage of a manifold valve, it is possible to divide the valve’s exhaust so that it does not affect another valve.
VZ3000-79-1A

Cable length
1.5 m
3 m
5 m
8 m

Assembly part no.
VVZS3000-21A-1
VVZS3000-21A-2
VVZS3000-21A-3
VVZS3000-21A-4

Component parts
Plug MIL standard
Number of terminals: 25
Cable: 25 cores x 0.3 mm²

For details, refer to page 3-3-8.
How to Increase Manifold Base

(1) Loosen (both) bolts (a), which are securing the manifold onto the DIN rail, 1 to 2 turns. (To remove the manifold base from the DIN rail, loosen the bolts 4 to 5 turns.)

(2) Press lever (b) to disconnect the manifold block assembly at the location in which you wish to place an additional manifold block assembly. (However, there are no levers between (1) and (4) or between (2) and (4). They can be disconnected by merely pulling them apart.)

(3) Mount additional manifold block assembly on the DIN rail as shown in the Fig. (2).

(4) Press the block assemblies and tighten the bolts (a) to fix them to the DIN rail.

Note) When there are 10 or fewer manifold block assemblies, and more are added to make a total of 11 or more, a supply/exhaust block assembly must also be added.
Exploded View/DIN Rail Manifold

Type 45F Manifold

How to Increase Manifold Base

(1) Loosen (both) bolts (a), which are securing the manifold onto the DIN rail, 1 to 2 turns. (To remove the manifold base from the DIN rail, loosen the bolts 4 to 5 turns.)

(2) Using a flat screwdriver, press lever (b) to disengage the link of the manifold block assembly on the U side or the D side from the SUP/EXH block assembly or from the end block assembly. (However, there are no levers between \( t \) and \( q \). They can be disconnected by merely pulling them apart.)

(3) Remove the housing cover from the D-sub connector portion of the SUP/EXH block assembly. (Refer to Fig. (1).)

(4) Following the procedure shown in Fig. (2), mount the manifold block assembly to be added onto the DIN rail. As shown in Fig. (3), insert the pin of the lead wire assembly into the D-sub connector, and attach the round crimped terminal to the screw that connects the wires.

(5) Press the block assemblies and tighten the bolts (a) to fix them to the DIN rail.

Note: When there are 10 or fewer manifold block assemblies, and more are added to make a total of 11 or more, a supply/exhaust block assembly must also be added.

Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Part no.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Manifold block assembly</td>
<td>VZ3000-50A-1-CA</td>
<td>C4: A, B port One-touch fitting for ø4</td>
</tr>
<tr>
<td>2</td>
<td>SUP/EXH block assembly</td>
<td>VZ3000-51A-1D</td>
<td>For D side, With D-sub connector and P/R port with One-touch fitting for ø6</td>
</tr>
<tr>
<td>3</td>
<td>SUP/EXH block assembly</td>
<td>VZ3000-51A-1U</td>
<td>For U side, With D-sub connector and P/R port with One-touch fitting for ø8</td>
</tr>
<tr>
<td>4</td>
<td>End block assembly</td>
<td>VZ3000-52A-2D</td>
<td>For D side, set with 1.</td>
</tr>
<tr>
<td>5</td>
<td>End block assembly</td>
<td>VZ3000-52A-1U</td>
<td>For U side</td>
</tr>
<tr>
<td>6</td>
<td>End block assembly</td>
<td>VZ3000-52A-1D</td>
<td>For D side</td>
</tr>
<tr>
<td>7</td>
<td>End block assembly</td>
<td>VZ3000-52A-2U</td>
<td>For U side, set with 1.</td>
</tr>
<tr>
<td>8</td>
<td>SUP/EXH block assembly</td>
<td>VZ3000-51A-1M</td>
<td>Without D-sub connector For indicated location</td>
</tr>
</tbody>
</table>

Note) When there are 10 or fewer manifold block assemblies, and more are added to make a total of 11 or more, a supply/exhaust block assembly must also be added.

How to add a manifold block assembly, add it to the U side so that the terminal number of the D-sub connector and the valve link position will be in accordance with the circuit diagram.

Fig. (1) Housing cover

Fig. (2) DIN rail

Fig. (3) Hooking this part onto the DIN rail and press down until a click is heard.

Terminal lead wire color

- Black
- White
- Red
- Yellow
- Blue
- Green
- Pink
- Brown
- Orange
- Gray
- Purple

Replacement Parts Table

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Part no.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Manifold block assembly</td>
<td>VZ3000-50A-1-CA</td>
<td>C4: A, B port One-touch fitting for ø4</td>
</tr>
<tr>
<td>2</td>
<td>SUP/EXH block assembly</td>
<td>VZ3000-51A-1D</td>
<td>For D side, With D-sub connector and P/R port with One-touch fitting for ø6</td>
</tr>
<tr>
<td>3</td>
<td>SUP/EXH block assembly</td>
<td>VZ3000-51A-1U</td>
<td>For U side, With D-sub connector and P/R port with One-touch fitting for ø8</td>
</tr>
<tr>
<td>4</td>
<td>End block assembly</td>
<td>VZ3000-52A-2D</td>
<td>For D side, set with 1.</td>
</tr>
<tr>
<td>5</td>
<td>End block assembly</td>
<td>VZ3000-52A-1U</td>
<td>For U side</td>
</tr>
<tr>
<td>6</td>
<td>End block assembly</td>
<td>VZ3000-52A-1D</td>
<td>For D side</td>
</tr>
<tr>
<td>7</td>
<td>End block assembly</td>
<td>VZ3000-52A-2U</td>
<td>For U side, set with 1.</td>
</tr>
<tr>
<td>8</td>
<td>SUP/EXH block assembly</td>
<td>VZ3000-51A-1M</td>
<td>Without D-sub connector For indicated location</td>
</tr>
</tbody>
</table>

Note) When there are 10 or fewer manifold block assemblies, and more are added to make a total of 11 or more, a supply/exhaust block assembly must also be added.
**Series VZ3000**

Type 40 Manifold: Bottom Ported

**VV5Z3-40- Station 2-M5**

- **Grommet (G), (H)**
- **L plug connector (L)**
- **M plug connector (M)**
- **DIN terminal (D)**
- **Built-in speed controllers**

### Stations

<table>
<thead>
<tr>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
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<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
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<tbody>
<tr>
<td>L1</td>
<td>58</td>
<td>74</td>
<td>90</td>
<td>106</td>
<td>122</td>
<td>138</td>
<td>154</td>
<td>170</td>
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<td>234</td>
<td>250</td>
<td>266</td>
<td>282</td>
<td>298</td>
<td>314</td>
<td>330</td>
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<td>L2</td>
<td>40</td>
<td>56</td>
<td>72</td>
<td>88</td>
<td>104</td>
<td>120</td>
<td>136</td>
<td>152</td>
<td>168</td>
<td>184</td>
<td>200</td>
<td>216</td>
<td>232</td>
<td>248</td>
<td>264</td>
<td>280</td>
<td>296</td>
<td>312</td>
</tr>
</tbody>
</table>

### Dimensions

- **Pitch P=16**
- **Mounting hole**
- **Manual override (Non-locking)**
- **2n-M5×0.8 (4(A), 2(B) port)**
- **G: 300 mm**
- **H: 600 mm**
- **M5 x 0.8 (PE port)**
- **G: 300 mm**
- **H: 600 mm**

### Built-in speed controllers

- **Max. 10**
- **Max. 11**

### Applicable cable O.D.

- **ø3.5 to ø7**

### Notes

- **Φ: With light/surge voltage suppressor**
Type 41 Manifold: Side Ported

VV5Z3-41-Station 1-M5

Grommet (G), (H)

Manual override
(Non-locking)

M5 x 0.8 (PE port)

With filter

2-M5x0.8
(4(A), 2(B) port)

(Pitch)

P=16
(Pitch)

Stations

<table>
<thead>
<tr>
<th>L1</th>
<th>L2</th>
</tr>
</thead>
<tbody>
<tr>
<td>52</td>
<td>43</td>
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<td>308</td>
<td>299</td>
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<tr>
<td>324</td>
<td>315</td>
</tr>
<tr>
<td>340</td>
<td>331</td>
</tr>
</tbody>
</table>

L plug connector (L)

M plug connector (M)

DIN terminal (D)

Built-in speed controllers

With light/surge voltage suppressor

(maximum cable O.D. ø3.5 to ø7)
Series VZ3000

Type 42 Manifold: Side Ported

VV5Z3-42-Station1-01

Grommet (G), (H)

Manual override
(Non-locking)

L plug connector (L)  M plug connector (M)  DIN terminal (D)  Built-in speed controllers

Stations 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
L1 66 83 100 117 134 151 168 185 202 219 236 253 270 287 304 321 338 355 372
L2 53 70 87 104 121 138 155 172 189 206 223 240 257 274 291 308 325 342 359

G: 300 mm
H: 600 mm

M5 x 0.8 (PE port)

2n-Rc 1/8
(4(A), 2(B) port)

P=17

24.5

Pitch

4-Rc 1/4
(1(P), 3/5(R) port)

403 x 119

Applicable cable O.D.
ø3.5 to ø7

MAX. 11

MAX. 10

41 x 799

Series VZ3000

3-3-46

□: With light/surge voltage suppressor
5 Port Solenoid Valve
Base Mounted Series VZ3000

Type 42 Manifold: Side Ported

VV5Z3-42-Station1-C6

Grommet (G), (H)

Manual override
(Non-locking)

M5 x 0.8 (PE port)

G: 300 mm
H: 600 mm

(Applicable tubing model: T0604)

L plug connector (L) M plug connector (M) DIN terminal (D) Built-in speed controllers

Stations

<table>
<thead>
<tr>
<th>L1</th>
<th>65</th>
<th>81</th>
<th>97</th>
<th>113</th>
<th>129</th>
<th>145</th>
<th>161</th>
<th>177</th>
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<th>209</th>
<th>225</th>
<th>241</th>
<th>257</th>
<th>273</th>
<th>289</th>
<th>305</th>
<th>321</th>
<th>337</th>
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With light/surge voltage suppressor

---

3-3-47
With light/surge voltage suppressor

**Series VZ3000**

**Type 43 Manifold: Side Ported**

**VV5Z3-43 Station 1-C4**

Grommet (G), (H)

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**Series VZ3000**

**Type 43 Manifold: Side Ported**

**VV5Z3-43 Station 1-C4**

Grommet (G), (H)

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**Series VZ3000**

**Type 43 Manifold: Side Ported**

**VV5Z3-43 Station 1-C4**

Grommet (G), (H)

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**Series VZ3000**

**Type 43 Manifold: Side Ported**

**VV5Z3-43 Station 1-C4**

Grommet (G), (H)

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**Series VZ3000**

**Type 43 Manifold: Side Ported**

**VV5Z3-43 Station 1-C4**

Grommet (G), (H)

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**Series VZ3000**

**Type 43 Manifold: Side Ported**

**VV5Z3-43 Station 1-C4**

Grommet (G), (H)

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Type 41P Flat Ribbon Cable Manifold: Side Ported

VV5Z3-41P- (Station) -M5

Built-in speed controllers

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Built-in speed controllers

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Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

Grommet (G), (H)

C4

VV5Z3-45-Station D-C4C

C6C

2n-One-touch fitting
(A, B port)
Applicable tubing model
C6: T0604

DIN rail holding screw
(DIN rail)

Manual override
(Non-locking)

(Separation lever)
(Push type)

Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

C4

VV5Z3-45-Station B-C4C

C6C

2n-One-touch fitting
(A, B port)
Applicable tubing model
C4: T0425

DIN rail holding screw
(DIN rail)

Manual override
(Non-locking)

(Separation lever)
(Push type)

L plug connector (L) M plug connector (M) DIN terminal (D)

Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

Grommet (G), (H)

C4

VV5Z3-45-Station U-C4C

C6C

2n-One-touch fitting
(A, B port)
Applicable tubing model
C6: T0604

DIN rail holding screw
(DIN rail)

Manual override
(Non-locking)

(Separation lever)
(Push type)

Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

C4

VV5Z3-45-Station U-C4C

C6C

2n-One-touch fitting
(A, B port)
Applicable tubing model
C6: T0604

DIN rail holding screw
(DIN rail)

Manual override
(Non-locking)

(Separation lever)
(Push type)

Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

Grommet (G), (H)

C4

VV5Z3-45-Station D-C4C

C6C

2n-One-touch fitting
(A, B port)
Applicable tubing model
C6: T0604

DIN rail holding screw
(DIN rail)

Manual override
(Non-locking)

(Separation lever)
(Push type)

Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

C4

VV5Z3-45-Station B-C4C

C6C

2n-One-touch fitting
(A, B port)
Applicable tubing model
C4: T0425

DIN rail holding screw
(DIN rail)

Manual override
(Non-locking)

(Separation lever)
(Push type)

Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

Grommet (G), (H)

C4

VV5Z3-45-Station U-C4C

C6C

2n-One-touch fitting
(A, B port)
Applicable tubing model
C6: T0604

DIN rail holding screw
(DIN rail)

Manual override
(Non-locking)

(Separation lever)
(Push type)

Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

C4

VV5Z3-45-Station B-C4C

C6C

2n-One-touch fitting
(A, B port)
Applicable tubing model
C4: T0425

DIN rail holding screw
(DIN rail)

Manual override
(Non-locking)

(Separation lever)
(Push type)

Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

Grommet (G), (H)

C4

VV5Z3-45-Station D-C4C

C6C

2n-One-touch fitting
(A, B port)
Applicable tubing model
C6: T0604

DIN rail holding screw
(DIN rail)

Manual override
(Non-locking)

(Separation lever)
(Push type)

Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

C4

VV5Z3-45-Station B-C4C

C6C

2n-One-touch fitting
(A, B port)
Applicable tubing model
C4: T0425

DIN rail holding screw
(DIN rail)

Manual override
(Non-locking)

(Separation lever)
(Push type)

Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

Grommet (G), (H)

C4

VV5Z3-45-Station D-C4C

C6C

2n-One-touch fitting
(A, B port)
Applicable tubing model
C6: T0604

DIN rail holding screw
(DIN rail)

Manual override
(Non-locking)

(Separation lever)
(Push type)

Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

C4

VV5Z3-45-Station B-C4C

C6C

2n-One-touch fitting
(A, B port)
Applicable tubing model
C4: T0425

DIN rail holding screw
(DIN rail)

Manual override
(Non-locking)

(Separation lever)
(Push type)
Series VZ3000

Type 45F DIN Rail Manifold (Non Plug-in): Side Ported

VV5Z3-45FD Station C4C C6C

2n-One-touch fitting (A, B port)
Applicable tubing model C6: T0604

One-touch fitting port (P, R port)
Applicable tubing model: T0806

VV5Z3-45FU Station C4C C6C

2n-One-touch fitting (A, B port)
Applicable tubing model C4: T0425

Applicable connector D-SUB
JIS-X-5101
MIL-C-24308

DIN rail holding screw
Manual override (Non-locking)
(Rail mounting hole pitch 12.5)

Separation lever (Push type)

Terminal no. 1

Applicable tubing model
C4: T0604

2n-One-touch fitting (A, B port)
Applicable tubing model C4: T0425

Stations

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VV5Z3-45FU Station C4C C6C

(2 to 10 stations)

VV5Z3-45FB Station C4C C6C

(11 to 20 stations)
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.
VZ\textsuperscript{3} 5\underline{ } 0\underline{ } (\underline{ }) \textsuperscript{–} X20

Entry is the same as standard products.

Specifications

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

Entry is the same as standard products.

Manual override
A (Push type A)
E (Push-locking type E)

Dimensions: Single

Push type A

Push-locking type E

3. Solenoid Valve: Opposite Mount of Solenoid Assembly

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

Model no.

VZ3

Entry is the same as standard products.

Dimensions: VZ1120-G-M5-X1

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

4. Manifold: Common SUP/Individual EXH Type

Applicable solenoid valve series
VZ3000

Common SUP/Individual EXH type
VV5Z3-21-C3

Specification

<table>
<thead>
<tr>
<th>Common SUP/Individual EXH type</th>
<th>1(P) port</th>
<th>Rc 1/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/5(R) port</td>
<td>M5 x 0.8</td>
<td></td>
</tr>
<tr>
<td>4(A), 2(B) port</td>
<td>Valve</td>
<td></td>
</tr>
</tbody>
</table>

Model no. VV5Z3 – 21 – 05 3 –

Applicable solenoid valve
VZ3/L50132/L50132/L50132

Applicable blanking plate assembly
DXT192-13-1A

Applicable throttle valve
DXT154-34-1A

Applicable silencer
AN120-M5

Note) Refer to page 3-3-25 for manifold option.

Dimensions: Grommet Type

Note) To use the VZ3/L23 with a throttle valve mounted on it, open the throttle valve one turn or more from the fully closed position.

<table>
<thead>
<tr>
<th>Stations</th>
<th>2</th>
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<th>4</th>
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<tbody>
<tr>
<td>L1</td>
<td>50</td>
<td>66</td>
<td>82</td>
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<td>296</td>
<td>312</td>
<td>328</td>
</tr>
</tbody>
</table>

(Lead wire length) 300 (mm)