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.

### Manifold Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Type 20</th>
<th>Type 21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manifold type</td>
<td>Single base/B mount</td>
<td>Common SUP/Common EXH</td>
</tr>
<tr>
<td>P(SUP)/R(EXH)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valve stations</td>
<td>2 to 15 stations</td>
<td>2 to 20 stations</td>
</tr>
<tr>
<td>4(A), 2(B) port location</td>
<td>Valve</td>
<td></td>
</tr>
<tr>
<td>Port size</td>
<td>1(P), 3(S) port</td>
<td>Rc 1/8</td>
</tr>
<tr>
<td></td>
<td>4(A), 2(B) port</td>
<td>Rc 1/4, C6, C8</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>VV5Z5-20-01</td>
<td>1/8, 1/8</td>
<td>2.2, 0.35, 0.57, 2.3, 0.26, 0.55</td>
</tr>
<tr>
<td>VV5Z5-20-C6</td>
<td>1/8, C6</td>
<td>1.4, 0.32, 0.37, 2.0, 0.25, 0.49</td>
</tr>
<tr>
<td>VV5Z5-20-C8</td>
<td>1/8, C8</td>
<td>1.7, 0.38, 0.45, 2.1, 0.25, 0.51</td>
</tr>
<tr>
<td>VV5Z5-21-01</td>
<td>1/4, 1/8</td>
<td>2.1, 0.36, 0.55, 2.3, 0.26, 0.54</td>
</tr>
<tr>
<td>VV5Z5-21-C6</td>
<td>1/4, C6</td>
<td>1.4, 0.32, 0.36, 2.1, 0.24, 0.50</td>
</tr>
<tr>
<td>VV5Z5-21-C8</td>
<td>1/4, C8</td>
<td>1.8, 0.37, 0.50, 2.1, 0.20, 0.50</td>
</tr>
</tbody>
</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) VV5Z5-20-031----------1 pc. (Manifold base)

- VZ5120-5G-01----------2 pcs. (Valve)
- DXT199-22-1A----------1 pc. (Blanking plate assembly)
- VZ5120-5G-01----------2 pcs. (Valve)
- DXT199-22-1A----------1 pc. (Blanking plate assembly)

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

#### Flat Ribbon Cable Manifold Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Type 2P</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>3 to 12 stations</td>
</tr>
<tr>
<td>4(A), 2(B) port location</td>
<td>Valve</td>
</tr>
<tr>
<td>Port size</td>
<td>1(P), 3(S) port</td>
</tr>
<tr>
<td></td>
<td>4(A), 2(B) port</td>
</tr>
</tbody>
</table>

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

### Flow Characteristics

<table>
<thead>
<tr>
<th>Manifold</th>
<th>Port size</th>
<th>Flow characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>VV5Z5-21P-01</td>
<td>1/4, 1/8</td>
<td>2.1, 0.36, 0.55, 2.3, 0.26, 0.54</td>
</tr>
<tr>
<td>VV5Z5-21P-C6</td>
<td>1/4, C6</td>
<td>1.4, 0.32, 0.36, 2.1, 0.24, 0.50</td>
</tr>
<tr>
<td>VV5Z5-21P-C8</td>
<td>1/4, C8</td>
<td>1.8, 0.37, 0.50, 2.1, 0.20, 0.50</td>
</tr>
</tbody>
</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) VV5Z5-21P-07----------1 pc. (Manifold base)

- VZ5123-5MOZ-C8----------3 pcs. (Valve)
- VZ5123-5MOZ-C8----------3 pcs. (Valve)
- DXT199-22-3A----------1 pc. (Blanking plate assembly)
- DXT199-22-3A----------1 pc. (Blanking plate assembly)
- DXT199-22-3A----------1 pc. (Blanking plate assembly)
- DXT199-22-3A----------1 pc. (Blanking plate assembly)
- DXT199-22-3A----------1 pc. (Blanking plate assembly)
- DXT199-22-3A----------1 pc. (Blanking plate assembly)
- DXT199-22-3A----------1 pc. (Blanking plate assembly)

The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.
### Common SUP/Common EXH

#### Type 20

![Type 20 Diagram]

How to Order

**VVZ5 - 20 - 05 1**

<table>
<thead>
<tr>
<th>Stations</th>
<th>P, R port thread type</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>2 stations</td>
</tr>
<tr>
<td>15</td>
<td>15 stations</td>
</tr>
</tbody>
</table>

Applicable solenoid valve

VZ5C20/L50132

Applicable blanking plate assembly

DXT199-22-1A

Applicable individual EXH spacer assembly

DXT199-29-1A

Note) For more than 6 stations, supply air to both sides of P port and exhaust air from both sides of R port.

#### Type 21

![Type 21 Diagram]

How to Order

**VVZ5 - 21 - 05 1**

<table>
<thead>
<tr>
<th>Stations</th>
<th>P, R port thread type</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>2 stations</td>
</tr>
<tr>
<td>20</td>
<td>20 stations</td>
</tr>
</tbody>
</table>

Applicable solenoid valve

VZ5C21/L50132

Applicable blanking plate assembly

DXT199-22-1A

Applicable individual EXH spacer assembly

DXT199-29-1A

Note) For more than 10 stations, supply air to both sides of P port and exhaust air from both sides of R port.

#### Flat Ribbon Cable Type 21P

![Flat Ribbon Cable Type 21P Diagram]

How to Order

**VVZ5 - 21P - 05**

<table>
<thead>
<tr>
<th>Stations</th>
<th>P, R port thread type</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>3 stations</td>
</tr>
<tr>
<td>12</td>
<td>12 stations</td>
</tr>
</tbody>
</table>

Applicable solenoid valve

VZ5C23/L50132

Applicable blanking plate assembly

DXT199-22-3A

Applicable connector assembly

DXT192-52-1-1A

(For 2 position single)

DXT192-52-1-1A

(For 2 position double, 3 position)

* 1: 100 VAC, 3: 110 VAC, 4: DC

Note) For more than 10 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Note) For more than 10 stations, supply air to both sides of 1(P) port and exhaust air from both sides of 3 and 5(R) port.
Caution

Mounting Screw Tightening Torques
M3: 0.8 N·m

Applicable base
VV5Z5-20
VV5Z5-21
VV5Z5-21P

Blanking Plate Assembly

DXT199-22-1A
Round head combination screw
\( M3 \times 31 \) (With spring washer)
Blanking plate
DXT199-22-2
Gasket
DXT199-21-6
Applicable base
VV5Z5-20
VV5Z5-21

DXT199-22-3A
Round head combination screw
\( M3 \times 31 \) (With spring washer)
Blanking plate
DXT199-22-2
Gasket
DXT199-21-6
Applicable base
VV5Z5-21P

Note) Please contact SMC when using an individual EXH spacer assembly, an individual or an adapter plate assembly on VV5Z5-21P.

Installation of the VZ500 Valve on the VZ5000 Manifold

- Use of a adaptor plate makes it possible to mount Series VZ500 on the manifold base of Series VZ5000.
- 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 VZ5000.

Adapter plate assembly
DXT201-3-1A

Round head combination screw
DXT199-23-1
\( M3 \times 31 \) (With spring washer)
Gasket
DXT199-21-4

Applicable base
VV5Z5-20
VV5Z5-21

Combinations of Solenoid Valve, Manifold Gasket and Manifold Base

Round head combination screw
DXT199-25-1
\( M3 \times 31 \) (With spring washer)
Gasket
DXT199-21-4

Applicable base
VV5Z5-20
VV5Z5-21
VV5Z5-21P

Individual EXH Spacer Assembly

DXT199-29-1A
Round head combination screw
AXT623-14
\( M3 \times 47 \) (With spring washer)
2-Rc 1/8
(EXH port)
Gasket
DXT199-21-4

Applicable base
VV5Z5-20
VV5Z5-21

Blanking Plate Assembly

Option

DXT199-22-1A
Round head combination screw
VK300-33-3
\( M3 \times 8 \) (With spring washer)
Blanking plate
DXT199-22-2
Gasket
DXT199-21-6
Applicable base
VV5Z5-20
VV5Z5-21

DXT199-22-3A
Round head combination screw
VK300-33-3
\( M3 \times 8 \) (With spring washer)
Blanking plate
DXT199-22-2
Gasket
DXT199-21-6
Applicable base
VV5Z5-21P

Dust cap
VJ3000-57-1

Applicable base
VV5Z5-20
VV5Z5-21

Adapter plate assembly
DXT201-3-1A
Round head combination screw
AXT624-28
\( M3 \times 10 \) (With spring washer)
O-ring
12.5X9.5X1.5

Applicable base
VV5Z5-20
VV5Z5-21

Note) Please contact SMC when using an individual EXH spacer assembly, an individual or an adapter plate assembly on VV5Z5-21P.
Type 20 Manifold

VV5Z5-20-Station 1

Grommet (G), (H)

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

<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>
</tr>
</thead>
<tbody>
<tr>
<td>L₁</td>
<td>59</td>
<td>78</td>
<td>97</td>
<td>116</td>
<td>135</td>
<td>154</td>
<td>173</td>
<td>192</td>
<td>211</td>
<td>230</td>
<td>249</td>
<td>268</td>
<td>287</td>
<td>306</td>
</tr>
<tr>
<td>L₂</td>
<td>47</td>
<td>66</td>
<td>85</td>
<td>104</td>
<td>123</td>
<td>142</td>
<td>161</td>
<td>180</td>
<td>199</td>
<td>218</td>
<td>237</td>
<td>256</td>
<td>275</td>
<td>294</td>
</tr>
</tbody>
</table>

L: 300 mm
H: 600 mm

(Pitch) P = 19

(Mounting hole) ø4.5

Manual override (Non-locking)

P: ø15.5

MAX. 6

Series VZ5000 5 Port Solenoid Valve Body Ported

With light/surge voltage suppressor

Applicable cable O.D. ø3.5 to ø7

2n-One-touch fitting

(P4(A), 2(B) port)

Applicable tubing model

C6: T0604

C8: T0806
Series VZ5000

Type 21 Manifold

VV5Z5-21-Station 1

Grommet (G), (H)

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

Stations  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| L₁ | 66 | 85 | 104 | 123 | 142 | 161 | 180 | 199 | 218 | 237 | 256 | 275 | 294 | 313 | 332 | 351 | 370 | 389 | 408 |
| L₂ | 46 | 65 | 84 | 103 | 122 | 141 | 160 | 179 | 198 | 217 | 236 | 255 | 274 | 293 | 312 | 331 | 350 | 369 | 388 |

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

L: MAX. 10  C6: MAX. 6  C8: MAX. 6.5

With light/surge voltage suppressor

(4(A), 2(B) port) Applicable tubing model C6: T0604  C8: T0806
Type 21P Manifold

VV5Z5-21P Station

Manual override
(Non-locking)
2n-Rc 1/8
(4(A), 2(B) port)

(Light/Surge voltage suppressor)

Triangle mark

(Station n)···························(Station 1)

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

Built-in One-touch fittings

2n-One-touch fitting
(4(A), 2(B) port)
Applicable tubing model
C6: T0604
C8: T0806

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>88</td>
<td>108.5</td>
<td>129</td>
<td>149.5</td>
<td>170</td>
<td>190.5</td>
<td>211</td>
<td>231.5</td>
<td>252</td>
<td>272.5</td>
</tr>
<tr>
<td>L2</td>
<td>68</td>
<td>109</td>
<td>109</td>
<td>129.5</td>
<td>150</td>
<td>170.5</td>
<td>191</td>
<td>211.5</td>
<td>232</td>
<td>252.5</td>
</tr>
</tbody>
</table>
**Manifold Standard**

**DIN Rail Manifold**

### Manifold Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Type 40</th>
<th>Type 41</th>
<th>Type 42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manifold type</td>
<td>Single base/B mount</td>
<td>Common SUP and EXH</td>
<td></td>
</tr>
<tr>
<td>P(SUP), R(EXH)</td>
<td>2 to 20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valve stations</td>
<td>Porting specifications</td>
<td>Position</td>
<td>Base</td>
</tr>
<tr>
<td>4(A), 2(B) port</td>
<td>Direction</td>
<td>Bottom</td>
<td>Side</td>
</tr>
<tr>
<td>Port size</td>
<td>4(P), 5(R) port</td>
<td>Rc 1/4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4(A), 2(B) port</td>
<td>Rc 1/8</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>VV5Z5-40</td>
<td>1/4, 1/8</td>
<td>2.1, 0.28, 0.51, 2.5, 0.25, 0.58</td>
</tr>
<tr>
<td>VV5Z5-41</td>
<td>1/4, 1/8</td>
<td>2.0, 0.30, 0.50, 2.2, 0.30, 0.55</td>
</tr>
<tr>
<td>VV5Z5-42-C6</td>
<td>1/4, C6</td>
<td>1.5, 0.32, 0.38, 2.2, 0.23, 0.52</td>
</tr>
<tr>
<td>VV5Z5-42-C8</td>
<td>1/4, C8</td>
<td>1.9, 0.24, 0.46, 2.2, 0.26, 0.53</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) VV5Z5-40-03-01····1 pc. (Manifold base)

VZ5140-5G············2 pcs. (Valve)

DXT199-22-1A······ 1 pc. (Blanking plate assembly)

### Model

<table>
<thead>
<tr>
<th>Manifold type</th>
<th>Stacking type non plug-in type</th>
</tr>
</thead>
<tbody>
<tr>
<td>P(SUP), R(EXH)</td>
<td>Stacking type plug-in type</td>
</tr>
<tr>
<td>Valve stations</td>
<td>2 to 20</td>
</tr>
<tr>
<td>Porting specifications</td>
<td>Position</td>
</tr>
<tr>
<td>4(A), 2(B) port</td>
<td>Direction</td>
</tr>
<tr>
<td>Port size</td>
<td>1(P), 3/5(R) port</td>
</tr>
<tr>
<td></td>
<td>4(A), 2(B) port</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>VV5Z5-45</td>
<td>C10, C6</td>
<td>1.5, 0.31, 0.38, 2.2, 0.17, 0.52</td>
</tr>
<tr>
<td>VV5Z5-41</td>
<td>C10, C6</td>
<td>2.1, 0.26, 0.51, 2.2, 0.15, 0.52</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) VV5Z5-40-03-01····1 pc. (Manifold base)

VZ5140-5G············2 pcs. (Valve)

DXT199-22-1A······ 1 pc. (Blanking plate assembly)

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

- On +COM or –COM.

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

**Series VZ5000/Base Mounted Manifold Specifications**
Common SUP/Common EXH

Type 40

How to Order

VZ5Z5 - 40 - 05 - 2 - 01

<table>
<thead>
<tr>
<th>Stations</th>
<th>4(A), 2(B) Port size</th>
<th>P, R port thread type</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 2 stations</td>
<td>01 Rc 1/8</td>
<td>Nil Rc</td>
</tr>
<tr>
<td>01 4(A), 2(B)</td>
<td></td>
<td>F G</td>
</tr>
<tr>
<td>20 20 stations</td>
<td></td>
<td>T NPT</td>
</tr>
</tbody>
</table>

Note) For more than 10 stations, supply air to both sides of 1(P) port and exhaust air from both sides of 3 and 5(R) port.

Applicable solenoid valve

VZ5C4F-00-00

Applicable blanking plate assembly

DXT199-22-1A

Applicable interface regulator

ARBZ5000-00-P

Type 41

How to Order

VZ5Z5 - 41 - 05 - 1 - 01

<table>
<thead>
<tr>
<th>Stations</th>
<th>4(A), 2(B) Port size</th>
<th>P, R port thread type</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 2 stations</td>
<td>01 Rc 1/8</td>
<td>Nil Rc</td>
</tr>
<tr>
<td>01 4(A), 2(B)</td>
<td></td>
<td>F G</td>
</tr>
<tr>
<td>20 20 stations</td>
<td></td>
<td>T NPT</td>
</tr>
</tbody>
</table>

Note) For more than 8 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Applicable blanking plate assembly

DXT199-29-2A

Applicable individual EXH spacer assembly

DXT199-35-1A

Applicable individual SUP spacer assembly

DXT199-34-1A

Applicable interface regulator

ARBZ5000-00-P

Type 42

How to Order

VZ5Z5 - 42 - 05 - 1 - C6

<table>
<thead>
<tr>
<th>Stations</th>
<th>A, B port size</th>
<th>P, R port thread type</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 2 stations</td>
<td>C6 One-touch fitting for ø6</td>
<td>Nil Rc</td>
</tr>
<tr>
<td></td>
<td>C8 One-touch fitting for ø8</td>
<td>F G</td>
</tr>
<tr>
<td></td>
<td>B7 One-touch fitting for 1/4&quot;</td>
<td>T NPT</td>
</tr>
<tr>
<td></td>
<td>B9 One-touch fitting for 5/16&quot;</td>
<td></td>
</tr>
<tr>
<td>20 20 stations</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Applicable blanking plate assembly

DXT199-34-1A

Applicable individual EXH spacer assembly

DXT199-35-1A

Applicable interface regulator

ARBZ5000-00-P

DIN Rail Manifold

Common SUP/Common EXH

Type 45 (Non plug-in type)

How to Order

VZ5Z5 - 45 - 05 - D - C8

<table>
<thead>
<tr>
<th>Stations</th>
<th>SUP/EXH block mounting position</th>
<th>4 (A), 2 (B) Port size</th>
<th>P, R port thread type</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 2 stations</td>
<td>U U side 2 to 10 stations</td>
<td>C6 One-touch fitting for ø6</td>
<td>Nil Rc</td>
</tr>
<tr>
<td></td>
<td>D D side 2 to 10 stations</td>
<td>C8 One-touch fitting for ø8</td>
<td>F G</td>
</tr>
<tr>
<td></td>
<td>B Both sides 2 to 20 stations</td>
<td>B7 One-touch fitting for 1/4&quot;</td>
<td>T NPT</td>
</tr>
<tr>
<td></td>
<td>M Special specifications</td>
<td>B9 One-touch fitting for 5/16&quot;</td>
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</tr>
<tr>
<td>20 20 stations</td>
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</table>

Note) For special specifications, indicate separately on the manifold specification sheet.

Applicable solenoid valve

VZ5C4F-00-00

Applicable blanking plate assembly

DXT199-65-2A

DIN rail length specified

<table>
<thead>
<tr>
<th>Nil</th>
<th>Standard length</th>
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<tbody>
<tr>
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</tr>
<tr>
<td></td>
<td>(Specify a longer</td>
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<tr>
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<td>rail than the</td>
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<tr>
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<td>standard length.)</td>
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<tr>
<td>20</td>
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</table>

Type 45F (Plug-in type)

How to Order

VZ5Z5 - 45F - D - 05 - C8

<table>
<thead>
<tr>
<th>Connector mounting direction</th>
<th>SUP/EXH block mounting position</th>
<th>4(A), 2(B) port size</th>
<th>P, R port thread type</th>
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</thead>
<tbody>
<tr>
<td>U U side</td>
<td>C6 One-touch fitting for ø6</td>
<td>Nil Rc</td>
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<tr>
<td>D D side</td>
<td>C8 One-touch fitting for ø8</td>
<td>F G</td>
<td></td>
</tr>
<tr>
<td>B Both sides</td>
<td>M Mixed</td>
<td>T NPT</td>
<td></td>
</tr>
<tr>
<td>M Special specifications</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For 2 to 10 stations: One side (Same as direction of connector mount)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>For 11 to 20 stations: Both sides</td>
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</table>

Note) For special specifications, indicate separately on the manifold specification sheet.

Applicable solenoid valve

VZ5C4F-00-00

Applicable blanking plate assembly

DXT199-65-1A

DIN rail length specified

<table>
<thead>
<tr>
<th>Nil</th>
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<tbody>
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<tr>
<td></td>
<td>(Specify a longer</td>
</tr>
<tr>
<td></td>
<td>rail than the</td>
</tr>
<tr>
<td></td>
<td>standard length.)</td>
</tr>
<tr>
<td>20</td>
<td>For 20 stations</td>
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* In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

Series VZ5000

3-3-75
Combinations of Solenoid Valve, Manifold Gasket and Manifold Base

**Applicable base**
- VV5Z5-40
- VV5Z5-41
- VV5Z5-42

**Blanking Plate Assembly**
**DXT199-22-1A**
- Round head combination screw
- VK300-33-3 (M3 x 8)
- With spring washer
- Blanking plate
- Gasket

**Applicable base**
- VV5Z5-40
- VV5Z5-41
- VV5Z5-42

**Individual SUP Spacer Assembly**
**DXT199-35-1A**
- Round head combination screw
- AXT62-14 (M3 x 47)
- With spring washer

**Applicable base**
- VV5Z5-40
- VV5Z5-41
- VV5Z5-42

**Interface Regulator (P port regulation)**
**DXT199-29-2A**
- Round head combination screw
- AXT623-14 (M3 x 47)
- With spring washer

**Applicable base**
- Series VZ5000

**Installation of the VZ500 Valve on the VZ5000 Manifold**
- Use of an adaptor plate makes it possible to mount Series VZ5000 on the manifold base of Series VZ5000.
- 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 VZ5000.
- In the case of base mounting, 2(A) port of 3 port valve should be 2(B) port of manifold base.

**Adapter Plate Assembly**
**DXT201-3-2A**
- Round head combination screw
- AXT624-28 (M3 x 10)
- With spring washer
- Adapter plate

**Applicable base**
- VV5Z5-40
- VV5Z5-41
- VV5Z5-42

**Caution**
**Mounting Screw Tightening Torques**
- M3: 0.8 N·m
Option/DIN Rail Manifold

Blanking Plate Assembly

VZ5000-65-2A

- Round head combination screw
  - VK300-33-3
  - M3 x 8
  - With spring washer
- Blanking plate
  - DXT199-22-2
- Manifold gasket
  - VZ5000-57-2

Applicable base
- VV5Z5-45

Combination of Solenoid Valve, Gasket and Manifold Base

VZ5000-68-1A

- Round head combination screw
  - DXT199-23-1
  - M3 x 31
  - With spring washer
- Manifold gasket
  - VZ5000-57-2

Applicable base
- VV5Z5-45F

Caution

Mounting Screw Tightening Torques

- M2.5: 0.32 N·m
  (For stacking type manifold)

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.

VZ5000-68-1A

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.

VZ5000-68-1A

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 D-sub connector</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of terminals: 25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cable: 25 cores x 0.3 mm²</td>
</tr>
<tr>
<td>3 m</td>
<td>VVZS3000-21A-2</td>
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<tr>
<td>5 m</td>
<td>VVZS3000-21A-3</td>
<td></td>
</tr>
<tr>
<td>8 m</td>
<td>VVZS3000-21A-4</td>
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</tr>
</tbody>
</table>

For details, refer to page 3-3-8.
Exploded View/DIN Rail Manifold

Type 45 Manifold

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>VZ5000-50A-2</td>
<td>C6: A, B port with One-touch fitting for ø6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VZ5000-52A-2D</td>
<td>C8: A, B port with One-touch fitting for ø8</td>
</tr>
<tr>
<td>2</td>
<td>SUP/EXH block assembly</td>
<td>VZ5000-51A-2</td>
<td>P/R port with One-touch fitting for ø10</td>
</tr>
<tr>
<td>3</td>
<td>End block assembly</td>
<td>VZ5000-52A-2D</td>
<td>For D side</td>
</tr>
<tr>
<td>4</td>
<td>End block assembly</td>
<td>VZ5000-52A-2U</td>
<td>For U side</td>
</tr>
</tbody>
</table>

How to Increase Manifold Base

Station expansion is possible at any position.

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 ③ 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

**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>VZ5000-50A-1-</td>
<td>C6: A, B port with One-touch fitting for ø6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C8: A, B port with One-touch fitting for ø8</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SUP/EXH block assembly</td>
<td>VZ5000-51A-1D</td>
<td>For D side, With D-sub connector and P/R port with One-touch fitting for ø10</td>
</tr>
<tr>
<td>3</td>
<td>SUP/EXH block assembly</td>
<td>VZ5000-51A-1U</td>
<td>For U side, With D-sub connector and P/R port with One-touch fitting for ø10</td>
</tr>
<tr>
<td>4</td>
<td>End block assembly</td>
<td>VZ5000-52A-2D</td>
<td>For D side, set with 2</td>
</tr>
<tr>
<td>5</td>
<td>End block assembly</td>
<td>VZ5000-52A-1U</td>
<td>For U side</td>
</tr>
<tr>
<td>6</td>
<td>End block assembly</td>
<td>VZ5000-52A-1D</td>
<td>For D side</td>
</tr>
<tr>
<td>7</td>
<td>End block assembly</td>
<td>VZ5000-52A-2U</td>
<td>For U side, set with 3</td>
</tr>
<tr>
<td>8</td>
<td>SUP/EXH block assembly</td>
<td>VZ5000-51A-1M</td>
<td>Without D-sub connector, For indicated location P/R port with One-touch fitting for ø10</td>
</tr>
</tbody>
</table>

**How to Insert Lead Wire Assembly Pin**

Fig. (1) Housing cover

Fig. (2) DIN rail

Fig. (3) How to insert lead wire assembly pin

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.

(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 5 and 1. 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.
Series VZ5000

Type 40 Manifold: Bottom Ported

VV5Z5-40-Station 2-01

Grommet (G), (H)

L plug connector (L)

M plug connector (M)

DIN terminal (D)

□ With light/surge voltage suppressor
Type 41 Manifold: Side Ported

VV5Z5-41-Station 1-01

Grommet (G), (H)

Manual override
(Non-locking)

PE port
(Pilot EXH)

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

G: 300 mm
H: 600 mm
(Lead wire length)

L1
L2

Stations 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
L1 78 98 118 138 158 178 198 218 238 258 278 298 318 338 358 378 398 418 438
L2 50 70 90 110 130 150 170 190 210 230 250 270 290 310 330 350 370 390 410

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

□: With light/surge voltage suppressor
Grommet (G), (H)

Stations

<table>
<thead>
<tr>
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<th>L2</th>
</tr>
</thead>
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<td>400</td>
<td>372</td>
</tr>
<tr>
<td>419</td>
<td>391</td>
</tr>
</tbody>
</table>

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

Applicable cable O.D. ø3.5 to ø7

□: With light/surge voltage suppressor
Type 45 DIN Rail Manifold (Non Plug-in): Side Ported

VV5Z5-45- Station B-C6C

L plug connector (L) DIN terminal (D) M plug connector (M)
Type 45F DIN Rail Manifold (Plug-in): Side Ported

**VV5Z5-45FD** - Station C6C C8C

- 2n-One-touch fitting (A, B port)
- Applicable tubing model:
  - C6: T0604
  - C8: T0806

**VV5Z5-45FU** - Station C6C C8C

- One-touch fitting port (P, R port)
- Applicable tubing model: T1075

**VV5Z5-45FB** - Station C6C C8C (2 to 10 stations)

- (Pitch) P=19.29.5

**VV5Z5-45FU** - Station C6C C8C (11 to 20 stations)

- (Pitch) P=19.29.5

### Specifications

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### Stations

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<td>15.5</td>
<td>12</td>
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### Additional Information

- DIN rail holding screw
- Manual override (Non-locking)
- DIN rail holding screw
- Separation lever (Push type)
- Applicable connector D-SUB / MIL-C-24308

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**Series VZ5000**

3-3-84