Series VZS2000
Manifold Specifications

Plug-in Type: Stacking Type Manifold Base with D-sub Connector

- Wide range of interchangeability (D-sub connector (25P) conforming to MIL standard)
- Quick wiring permits easier installation.

VZS2000 Manifold
Plug-in type
Stacking type manifold base with D-sub connector

Connector mounting direction

Symbol
Applicable stations
D D side 2 to 8
U U side 2 to 8
B Both sides 9 to 16

Stations
02 2 stations

16 16 stations
Max. 16 stations.

Port size
01 Rc 1/8
C4 Embedded type One-touch fitting
Applicable tubing O.D.: ø4
C6 Embedded type One-touch fitting
Applicable tubing O.D.: ø6

Symbol
Passage Porting specifications
1(P) 5(R1), 3(R2) 4(A), 2(B)
1 Common Common Side

Thread type
Standard Nil Rc
Option N NPT
T NPTF
F G

Plug-in Type: Stacking Type Manifold Base with Attachment Plug Lead Wire

- The insert plug is attached to the manifold block and lead wire is plugged in with valve side. Please connect with corresponding power side.

VZS2000 Manifold
Plug-in type
Stacking type manifold base with attachment plug lead wire

Symbol
Passage Porting specifications
1(P) 5(R1), 3(R2) 4(A), 2(B)
1 Common Common Side

Thread type
Standard Nil Rc
Option N NPT
T NPTF
F G

Non Plug-in Type: Stacking Type Manifold Base

- Wiring for every valve

VZS2000 Manifold
Non plug-in type
Stacking type manifold base

Symbol
Passage Porting specifications
1(P) 5(R1), 3(R2) 4(A), 2(B)
1 Common Common Side

Thread type
Standard Nil Rc
Option N NPT
T NPTF
F G

Refer to page 3-7-4 for wiring specifications.
**Series VZS2000**

### Manifold Specifications

<table>
<thead>
<tr>
<th>Base model</th>
<th>Wiring</th>
<th>Piping specifications</th>
<th>Port size Rc</th>
<th>Applicable solenoid valve</th>
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</thead>
<tbody>
<tr>
<td>Plug-in type</td>
<td></td>
<td>4(A), 2(B)</td>
<td>1(P), 5(R1), 3(R2)</td>
<td>2(A), 2(B)</td>
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<tr>
<td>VVZS2000-51F</td>
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<td>VVZS2000-51G</td>
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<td>Non plug-in type</td>
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<td>Side</td>
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<td>VVZS2000-51</td>
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</table>

### Flow Characteristics at the Number of Manifold Stations

#### Operated single/double type individually

<table>
<thead>
<tr>
<th>Passage/Stations</th>
<th>Station 1</th>
<th>Station 5</th>
<th>Station 10</th>
<th>Station 15</th>
<th>Station 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 → 4/2 (P → A/B)</td>
<td>1.3</td>
<td>1.4</td>
<td>1.4</td>
<td>1.4</td>
<td>1.4</td>
</tr>
<tr>
<td>4/2 → 5/3 (A/B → R1/R2)</td>
<td>0.12</td>
<td>0.12</td>
<td>0.12</td>
<td>0.12</td>
<td>0.14</td>
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</table>

### Manifold Option Parts Assembly

#### Individual SUP spacer

An individual SUP spacer set on manifold block can form SUP port for every valve.

<table>
<thead>
<tr>
<th>Body type</th>
<th>Plug-in type</th>
<th>Non plug-in type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part no.</td>
<td>RC1/8</td>
<td>VVZS2000-51F-P1</td>
</tr>
<tr>
<td></td>
<td>RC1/8</td>
<td>VVZS2000-51G-P1</td>
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</tbody>
</table>

#### Individual EXH spacer

An individual EXH spacer set on manifold block can form EXH port for every valve.

<table>
<thead>
<tr>
<th>Body type</th>
<th>Plug-in type</th>
<th>Non plug-in type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part no.</td>
<td>RC1/8</td>
<td>VVZS2000-51F-P1</td>
</tr>
<tr>
<td></td>
<td>RC1/8</td>
<td>VVZS2000-51G-P1</td>
</tr>
</tbody>
</table>

#### SUP block disk

When supplying manifold with more than two different pressures, high and low, insert a block disk in between stations subjected to different pressures.

<table>
<thead>
<tr>
<th>Body type</th>
<th>Plug-in type</th>
<th>Non plug-in type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part no.</td>
<td>VVZS2000-26A</td>
<td></td>
</tr>
</tbody>
</table>

### How to Order Manifold Assembly

Please indicate manifold base type, corresponding valve, and option parts.

#### (Example)
- Plug-in type (At 6 stations)
  - (Manifold base) VVZS2000-51F-061-01...
  - (2 position single) VZS2150-5FZ...
  - (2 position double) VZS2250-5FZ...
  - (Blanking plate) VVZS2000-10A-1...
- Non plug-in type (At 6 stations)
  - (Manifold base) VVZS2000-51-061-01...
  - (2 position single) VZS2150-5G...
  - (3 position exhaust center) VZS2450-5G...

#### Manifold Option

**With control unit**

Plug-in type/Non plug-in type
- Filter, regulation valve, pressure switch and air release valve all combine to form one unit.
- Piping processes are eliminated.

**With serial interface unit for serial transmission**

Plug-in type
- Solenoid valve wiring process reduced considerably.
- Disperse installation possible.
- Manifold solenoid valve: 32 stations (512 point) max.
- Maintenance and inspection are easy.

**With coaxial fitting**

Plug-in type/Non plug-in type
- Piping man-hours reduced
- One-touch piping
- 1/2 the number of tubes

For details, refer to catalog (CAT. 02-5).

For details, refer to pages 3-7-19 and 3-7-20.
### Manifold Plug-in type

**With D-sub connector: VV5ZS2-51F**

<table>
<thead>
<tr>
<th>Stations</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<th>14</th>
<th>15</th>
<th>16</th>
<th>Formula</th>
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</thead>
<tbody>
<tr>
<td>L1</td>
<td>53</td>
<td>70</td>
<td>87</td>
<td>104</td>
<td>121</td>
<td>138</td>
<td>155</td>
<td>172</td>
<td>189</td>
<td>206</td>
<td>223</td>
<td>240</td>
<td>257</td>
<td>274</td>
<td>291</td>
<td>17n + 19</td>
<td></td>
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<tr>
<td>L2</td>
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<td>113</td>
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<td>147</td>
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<td>232</td>
<td>249</td>
<td>266</td>
<td>283</td>
<td>300</td>
<td>17n + 28</td>
<td></td>
</tr>
</tbody>
</table>

**With attachment plug lead wire: VV5ZS2-51G**

<table>
<thead>
<tr>
<th>Stations</th>
<th>1</th>
<th>2</th>
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<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
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<td>L1</td>
<td>53</td>
<td>70</td>
<td>87</td>
<td>104</td>
<td>121</td>
<td>138</td>
<td>155</td>
<td>172</td>
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<td>206</td>
<td>223</td>
<td>240</td>
<td>257</td>
<td>274</td>
<td>291</td>
<td>17n + 19</td>
</tr>
<tr>
<td>L2</td>
<td>62</td>
<td>79</td>
<td>96</td>
<td>113</td>
<td>130</td>
<td>147</td>
<td>164</td>
<td>181</td>
<td>198</td>
<td>215</td>
<td>232</td>
<td>249</td>
<td>266</td>
<td>283</td>
<td>300</td>
<td>17n + 28</td>
</tr>
</tbody>
</table>
Series VZS2000

**Manifold Non plug-in type**

VV5ZS2-51 - Station 1 Port size

Grommet (G)

Plug connector (L)

Plug connector (K)

Plug connector (M)

DIN terminal (D)

4-ø4.5 mounting hole

Manual override

3 position 142

Double 132

Single 89.5

65

With light/surge voltage suppressor: Type L2

2-C4,C6

27.3

9.5

1

3 position: 161

Double 151

Single 98

74.5

1

3 position: 157.5

Double: 147.5

With light/surge voltage suppressor: Type M2

MAX 10

3 position 156.5

Double 146.5

With light/surge voltage suppressor: Type MZ

| L1 | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | Formula |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|    | 53 | 70 | 87 | 104| 121| 138| 155| 172| 189| 206| 223| 240| 257| 274| 291| 308| 325| 342| 359| 376| 393| 410| 427| 17n  |
| L2 | 62 | 79 | 96 | 113| 130| 147| 164| 181| 198| 215| 232| 249| 266| 283| 300| 317| 334| 351| 368| 385| 402| 419| 436| 17n  |

n: Stations

(Port size: One-touch fitting type)
**Manifold with Control Unit**

- Control unit (Filter, Regulator, Pressure switch, Air release valve) are all standardized to the one unit, and can be mounted on the manifold base without any attachments.
- Piping processes are eliminated.

⚠️ Caution
When using an air filter with auto-drain or manual override drain, mount the filter vertically.

### Manifold Specifications

<table>
<thead>
<tr>
<th>Base model</th>
<th>Wiring</th>
<th>Porting specifications</th>
<th>Port size</th>
<th>Stations</th>
<th>Applicable valve model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug-in type</td>
<td>VVZS2-5If</td>
<td>4(A), 2(B)</td>
<td>24 stations</td>
<td>2 to 16 stations</td>
<td>VVZS2-51-FZ</td>
</tr>
<tr>
<td>VSZS2-51G</td>
<td>With D-sub connector</td>
<td>1(P), 5(R1), 3(R2)</td>
<td>24 stations</td>
<td>2 to 24 stations</td>
<td>VVZS2-51-GZ</td>
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<tr>
<td>Non plug-in type</td>
<td>VVZS2-51</td>
<td>With attachment plug lead wire</td>
<td>Side</td>
<td>Rc 1/4</td>
<td>VVZS2-50-CFZ</td>
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<tr>
<td></td>
<td>With grommet</td>
<td></td>
<td></td>
<td>C4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>L plug connector</td>
<td></td>
<td></td>
<td>C6</td>
<td></td>
</tr>
</tbody>
</table>

- With attachment plug lead wire: 15 stations max.

### Control Unit Specifications

**Air filter (With auto-drain/With manual drain)**

- Filtration degree: 10 μm
- Regulator
  - Set pressure (Outlet pressure): 0.05 to 0.7 MPa
  - Pressure switch
    - Set pressure range: Off
    - Differential pressure: 0.08 MPa
  - Contact: 1A
  - Max. switch capacity: 2 VA AC, 2 W DC
  - Max. operating current: 24 VAC, DC or less: 50 mA
    - 100 VAC, DC: 20 mA
  - Operating voltage: 100 VAC, DC or less
- Air release valve (Single only)
  - Operating pressure range: 0.1 to 1.0 MPa

### Control Unit/Option

**Blanking plate**

- MP-1
  - With control unit/Filter regulator
  - VVZS2000-15A
    - With pressure switch
    - VVZS2000-24A-10-
      - Release valve
- Filter element: XTO-1889-10
- Pressure switch
  - Plug-in type
    - VVZS2000-14A
  - Non plug-in type
    - IS1000-00-X204

### How to Order

**VV5ZS2-51F-D-081-01-AP5**

- Series VZS2000
- Manifold
  - Base type/Electrical entry
    - 51F: Plug-in type: Stacking type manifold base with D-sub connector
    - 51G: Plug-in type: Stacking type manifold base with attachment plug lead wire
    - 51: Non plug-in type: Stacking type manifold base
- Connector mounting direction
  - Symbol: Nil, D, U, B
  - With connector: None, D side, U side, Both sides
  - Applicable base: 51, 2 to 24 stations, 2 to 15 stations, 2 to 8 stations, 9 to 16 stations

- Stations
  - 02: 2 stations
  - 24: 24 stations

**Control unit type**

- Symbol: Nil, A, AP, M, MP
- Air filter regulator with auto-drain
  - Nil, A
- Air filter regulator with manual drain
  - Nil, A
- Air release valve
  - Nil, A
- Pressure switch
  - Nil, A
- Blanking plate (Air release valve)
  - Nil, A
- Blanking plate (Filter regulator)
  - Nil, A
- Blanking plate (Pressure switch)
  - Nil, A
- Number of manifold blocks required for mounting (Stations)
  - Nil, A

**Thread type**

- Symbol: Nil, Rc, N, T, F
- Port size
  - 01: Rc 1/8
  - C4: Embedded type One-touch fitting, Applicable tubing O.D.: 4
  - C6: Embedded type One-touch fitting, Applicable tubing O.D.: 6

**Coil voltage of air release valve**

- Note: How to take out the lead wire of air release valve is the same method as the other valve equipped on the same manifold.

- Nil, A, AP, M, MP
- 1: 100 VAC, 50/60 Hz
- 2: 200 VAC, 50/60 Hz
- 5: 24 VDC
- 9*: Other

**Port size**

- 01: Rc 1/8
- C4: Embedded type One-touch fitting, Applicable tubing O.D.: 4
- C6: Embedded type One-touch fitting, Applicable tubing O.D.: 6

Note: Operating voltage of pressure switch: 100 VAC, 100 VDC or less.

---

3-7-19
Manifold with Control Unit

Plug-in type, Non plug-in type

Plug-in base type:
VV5ZS2-51F - Station 1 - Port size - Classification of control unit

Non plug-in base type:
VV5ZS2-51 - Station 1 - Port size - Classification of control unit

Example for manifold

<table>
<thead>
<tr>
<th>n: Stations</th>
<th>L1</th>
<th>L2 (MP)</th>
<th>L2 (AP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>70</td>
<td>195.5</td>
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<td>4</td>
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<td>121</td>
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</table>

Formula: 17n + 19

Example for manifold

<table>
<thead>
<tr>
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<th>L1</th>
<th>L2 (MP)</th>
<th>L2 (AP)</th>
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<tbody>
<tr>
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<td>552.5</td>
<td>572.5</td>
</tr>
</tbody>
</table>

Formula: 17n + 144.5

Non plug-in base type:
VV5ZS2-51F - Station 1 - Port size - Classification of control unit

Example for manifold

<table>
<thead>
<tr>
<th>n: Stations</th>
<th>L1</th>
<th>L2 (MP)</th>
<th>L2 (AP)</th>
</tr>
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<tbody>
<tr>
<td>3</td>
<td>70</td>
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<td>552.5</td>
<td>572.5</td>
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</table>

Formula: 17n + 144.5
### Manifold Option Parts

**Plug-in type, Non plug-in type**

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Plug-in Type</th>
<th>Non Plug-in Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual SUP spacer</td>
<td>VVZS2000-P-01-1</td>
<td>VVZS-2000-P-01-2</td>
</tr>
<tr>
<td>Individual EXH spacer</td>
<td>VVZS2000-R-01-1</td>
<td>VVZS2000-R-01-2</td>
</tr>
<tr>
<td>SUP block disk</td>
<td>VVZS2000-26AEXH</td>
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</tbody>
</table>

**SUP port**: Individual SUP spacer  
**SUP port**: Individual EXH spacer  
**SUP port**: SUP block disk  
**SUP port**: Throttle valve spacer  
**SUP port**: SUP block disk  
**SUP port**: Throttle valve spacer  

Plug-in base type: ( )
**Exploded View of Manifold**

### Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Part no.</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Seal A</td>
<td>NBR</td>
<td>VVZS3000-4-1</td>
</tr>
<tr>
<td>2</td>
<td>Seal B</td>
<td>NBR</td>
<td>VVZS2000-4</td>
</tr>
<tr>
<td>3</td>
<td>O-ring</td>
<td>NBR</td>
<td>VVZS2000-14.4 x 12 x 1.2</td>
</tr>
<tr>
<td>4</td>
<td>O-ring</td>
<td>Carbon steel</td>
<td>7.5 x 4.5 x 1.5</td>
</tr>
<tr>
<td>5</td>
<td>Tie-rod</td>
<td>Carbon steel</td>
<td>VVZS2000-11-n (2)</td>
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<tr>
<td>6</td>
<td>Tie-rod for station addition</td>
<td>Carbon steel</td>
<td>VVZS2000-11-1 (2)</td>
</tr>
</tbody>
</table>

**Manifold block assembly**

- Plug-in type: VVZS2000-1A-1-Port size
- Non plug-in type: VVZS2000-1A-2-Port size
- Plug-in type with D-sub connector: VVZS2000-1A-3-Port size

**Component parts**

- Manifold block
- Tie-rod
- O-ring
- Seal A

**Note 1:** n: Stations

**Note 2:** Manifold block assembly is attached with tie-rod for increasing stations.

### How to Increase Manifold Base

1. Loosen the bolt and remove the end plate or in the side added with manifold block.
2. Joint the tie-rod to increase stations and add manifold block assembly. (Put packing on the surface contacting to the end plate.)
3. For a style with a D-sub connector, open the cover and insert the pin of lead wire assembly as shown in the right figure.
4. Mount the end plate and tighten the bolt.

**Note 1:** Be careful that the packing and the O-ring do not fall out of the groove.

**Note 3:** The tightening torque of bolt should be 2 to 2.2 N.

### Insertion Method for Pin of D-Sub Connector

- Confirm an insertion of the lead wire ass'y after the insertion of pin by light pulling of the lead wire.

**Note 1:** Regardless of the D-sub connector mounting position, stations are to be counted from D side as the 1st one.

**Note 2:** D-sub connector can use up to 8 stations in on side fitting. More than 9 stations are for both sides fitting.

**Pin**

- Black
- White
- Red

**Terminal no.**

- 1 station (5 stations)
- 2 stations (5 stations)
- 3 stations (11 stations)
- 4 stations (11 stations)
- 5 stations (13 stations)
- 6 stations (13 stations)
- 7 stations (14 stations)
- 8 stations (Max. 16 stations)

**D-sub connector terminal no.**

- Terminal no.
- Lead wire color
- Black
- White
- Red

- Black
- White
- Red
- Black
- White
- Red
- Black
- White
- Red

- Black
- White
- Red

**D side**

- SOL A
- 24 LC

- 1 station (5 stations)
- 2 stations (5 stations)
- 3 stations (11 stations)
- 4 stations (11 stations)
- 5 stations (13 stations)
- 6 stations (13 stations)
- 7 stations (14 stations)
- 8 stations (Max. 16 stations)

- J side

**Legend**

- (n)

- (n)

- (n)

- (n)

- (n)

- (n)

- (n)

- (n)

- (n)

- (n)

- (n)