Since lead wires of solenoid valve are connected with the terminals on upper surface of terminal block, corresponding lead wires from power source can be wired at the bottom of terminal block.

**Plug-in Type: With Terminal Block**

- Master connection of power and solenoid valves.
- Quick wiring permits easier installation.

**Plug-in Type: With Multi-connector** (Wiring specifications: Refer to page 3-8-8.)

- Wide range of interchangeability (MIL Spec DIN connector terminal 25 pcs attached.)
- Quick wiring permits easier installation.

**Non Plug-in Type: Grommet Terminal, DIN Terminal**

- Wiring for every valve.
How to Order Manifold Assembly

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

Example:
• Plug-in type with terminal block: 6 stations (Manifold base) VV5FS4-01T-061-03 .... 1
  (2 position single) VFS4110-5FZ ............. 3
  (2 position double) VFS4200-5FZ ............. 2
  (Blanking plate) VFS4000-10A ............... 1
• Non plug-in type: 6 stations (Manifold base) VV5FS4-10-061-04 ........ 1
  (2 position single) VFS4110-5D .......... 5
  (3 position exhaust) VFS4410-5D .... 1
  (Individual EXH spacer) VFS4000-R-04-2 .... 1

Manifold Option Parts Assembly

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

Body type Plug-in type Non plug-in type
Part no. VVFS4000-P-03-1 VVFS4000-P-03-2

Individual EXH spacer
An individual EXH spacer set on manifold block can form EXH port for every valve. (common EXH type)

Body type Plug-in type Non plug-in type
Part no. VVFS4000-R-04-1 VVFS4000-R-04-2

---

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

Body type Plug-in type Non plug-in type
Part no. AXT634-10A

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

Body type Plug-in type Non plug-in type
Part no. VVFS4000-10A

Throttle valve spacer
Needle valve set on manifold block can control cylinder speed by throttling exhaust.

Body type Plug-in type Non plug-in type
Part no. VVFS4000-20A-1 VVFS4000-20A-2

Double check spacer
If the double check spacer with a built-in double check valve is combined, it will enable the cylinder to stop in the intermediate stroke and maintain its position for a long time without being affected by the leakage between the spoils.

Body type Plug-in type Non plug-in type
Part no. VVFS4000-22A-1 VVFS4000-22A-2

Interface regulator
Interface regulator set on manifold block can regulate the pressure to each valve. (Refer to page 3-8-6 for “Flow Characteristics”)

Body type Plug-in type Non plug-in type
Part no. ARBF4050-00-P-1 ARBF4050-00-P-2

Blanking plate
It is used by attaching on manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.

Body type Plug-in type Non plug-in type
Part no. VVFS4000-10A

---

Manifold Specifications

<table>
<thead>
<tr>
<th>Base model</th>
<th>Wiring</th>
<th>Porting specifications</th>
<th>Port size Rc</th>
<th>Stations</th>
<th>Applicable valve model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug-in type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VV5FS4-01T</td>
<td>• With terminal block</td>
<td>Side/Bottom</td>
<td>1/2</td>
<td>1/2</td>
<td>VFS4000-0F</td>
</tr>
<tr>
<td>VV5FS4-010</td>
<td>• With terminal block</td>
<td>Side/Bottom</td>
<td>1/2</td>
<td>1/2</td>
<td>VFS4000-0F</td>
</tr>
<tr>
<td>Non plug-in type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VV5FS4-10</td>
<td>• DIN terminal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VV5FS4-10T</td>
<td>• DIN terminal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Flow Characteristics at the Number of Manifold Stations (Operated individually)

<table>
<thead>
<tr>
<th>Model</th>
<th>Passage/Stations</th>
<th>Station 1</th>
<th>Station 5</th>
<th>Station 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>VV5FS4</td>
<td>1 → 4/2 (P → A/B)</td>
<td>C [dm³/(s·bar)]</td>
<td>10.5</td>
<td>10.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b</td>
<td>0.20</td>
<td>0.20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cv</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>4/2 → 5/3 (A/B → R1/R2)</td>
<td>C [dm³/(s·bar)]</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b</td>
<td>0.20</td>
<td>0.20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cv</td>
<td>2.9</td>
<td>2.9</td>
</tr>
</tbody>
</table>

Manifold Option

With exhaust cleaner
Plug-in type/Non Plug-in type
• Valve exhaust noise dampening: 35 dB or more.
• Oil mist collection: Rate of collection 99.9% or more.
• Piping process reduced.

With control unit
Plug-in type/Non Plug-in type
• Filter, regulation valve, pressure switch and air release valve are all combined 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: 8 stations max. 32 positions (512 solenoids).
• Maintenance and inspection are easy.
Plug-in type (With terminal block): VV5FS4-01T-[Station]-Port size

\[ M = 0.478n + 0.671 \text{ (kg)} \]

Formula for manifold weight \( M = 0.565n + 0.923 \text{ (kg)} \)

**Stations**

<table>
<thead>
<tr>
<th>1</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>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>156</td>
<td>199</td>
<td>242</td>
<td>285</td>
<td>328</td>
<td>371</td>
<td>414</td>
<td>457</td>
<td>500</td>
</tr>
<tr>
<td>L+</td>
<td>168</td>
<td>211</td>
<td>254</td>
<td>297</td>
<td>340</td>
<td>383</td>
<td>426</td>
<td>469</td>
<td>512</td>
</tr>
</tbody>
</table>

Formula for manifold weight \( M = 0.478n + 0.671 \text{ (kg)} \)

**Non plug-in type: VV5FS4-10-[Station]-Port size**

\[ M = 0.565n + 0.923 \text{ (kg)} \]

**Bottom ported:**

<table>
<thead>
<tr>
<th>2n-Rc 3/8</th>
<th>2-Rc 1/8</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Pilot EXH port: PE)</td>
<td>Electrical entry</td>
</tr>
</tbody>
</table>

**Cable**

\( \varnothing8 \) to \( \varnothing10 \)

**Electrical entry**

(Pilot EXH port: PE)
**Manifold** Plug-in type with multi-connector/D-sub connector

Plug-in type with multi-connector: VV5FS4-01CD- Station 1- Port size, VV5FS4-01CU- Station 1- Port size

Bottom ported:
VV5FS4-01CD- Station 2- Port size

Plug assembly VVFS2000-30A-

(formula: \( M = 0.57n + 1.011 \) kg)

Wiring specifications: Refer to page 3-8-8.

Formula for manifold weight \( M = 0.57n + 1.011 \) kg

\( n \): Stations

Plug-in type with D-sub connector: VV5FS4-01FD- Station 1- Port size, VV5FS4-01FU- Station 1- Port size

Bottom ported:
VV5FS4-01FD- Station 2- Port size

Plug assembly VVZS3000-21A-

(formula: \( M = 0.57n + 0.935 \) kg)

Wiring specifications: Refer to page 3-8-8.

Formula for manifold weight \( M = 0.57n + 0.935 \) kg

\( n \): Stations

<table>
<thead>
<tr>
<th>Stations</th>
<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>( L_1 )</td>
<td>156 199 242 285 328 371 414 414 ( L_1 = 43 \times n + 70 )</td>
</tr>
<tr>
<td>( L_2 )</td>
<td>168 211 254 297 340 383 426 426 ( L_2 = 43 \times n + 82 )</td>
</tr>
</tbody>
</table>
Manifold with Exhaust Cleaner

- Serves to protect working environment.
- Valve exhaust noise dampening: 35 dB or more.
- Collection rate of drainage and oil mist: 99.9% or more.
- Piping work is reduced.

### Manifold Specifications

<table>
<thead>
<tr>
<th>Manifold</th>
<th>Plug-in type: VV5FS4-01</th>
<th>Non plug-in type: VV5FS4-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring</td>
<td>With terminal block</td>
<td>DiN terminal</td>
</tr>
<tr>
<td></td>
<td>With multi-connector</td>
<td>Grommet terminal</td>
</tr>
<tr>
<td></td>
<td>With D-sub connector</td>
<td></td>
</tr>
<tr>
<td>Applicable valve model</td>
<td>VFS4-00-00F</td>
<td>VFS4-10-00D, VFS4-10-00E</td>
</tr>
</tbody>
</table>

*Refer to Best Pneumatics Vol. 5 for Exhaust Cleaner details.

Caution

When using an exhaust cleaner, mount it downwards.

### How to Order

**Exhaust cleaner mounting direction**

- D side: U side
- U side: U side
- *Please indicate exhaust cleaner size or port size.

**Thread type**

- Nil: Rc
- N: NPT
- T: NPTF
- G: G

**Port size**

- P: Rc 1/2
- A, B: Rc 3/8
- M: Mixed

*For bottom ported, Rc 3/8 is only available.

**Symbol**

- P: Common
- R1, R2: Common
- (A, B): Side
- Bottom: 

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

**Example**

- Plug-in type with terminal block (6 stations)
  (Manifold base) VV5FS4-01T-061-03-CD ......................... 1
  (2 position single) VFS4100-5FZ .......................... 3
  (2 position double) VFS4200-5FZ ....................... 2
  (Blanking plate) VVFS4000-10A .......................... 1
  (Exhaust cleaner) AMC810-10 .............................. 1

- Non plug-in type (6 stations)
  (Manifold base) VV5FS4-10-061-04-CU ......................... 1
  (2 position single) VFS4110-SE .......................... 3
  (2 position double) VFS4210-SE ....................... 2
  (Blanking plate) VVFS4000-10A .......................... 1
  (Exhaust cleaner) AMC810-14 .............................. 1
Series VFS4000

Manifold with Exhaust Cleaner | Plug-in type, Non plug-in type

Plug-in type: VV5FS4-01T

<table>
<thead>
<tr>
<th>Station</th>
<th>Port size</th>
<th>CD</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>156</td>
<td></td>
</tr>
<tr>
<td>L2</td>
<td>168</td>
<td></td>
</tr>
</tbody>
</table>

Non plug-in type: VV5FS4-10T

<table>
<thead>
<tr>
<th>Station</th>
<th>Port size</th>
<th>CD</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>199</td>
<td></td>
</tr>
<tr>
<td>L2</td>
<td>222</td>
<td></td>
</tr>
</tbody>
</table>

Formula

\[ L_1 = 43 \times n + 70 \]
\[ L_2 = 43 \times n + 62 \]

Notes:
- AMC810
- Plug-in type
- Non plug-in type
- Exhaust Cleaner (Option)
- External pilot port: PE
- Pilot valve manual override
- Station 1
- Port size
- CD
- CU

3-8-80
### 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 drain, mount the filter vertically.

#### Manifold Specifications

<table>
<thead>
<tr>
<th>Manifold</th>
<th>Plug-in type: VV5FS4-01</th>
<th>Non plug-in type: VVFS4-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiring</td>
<td>With terminal block</td>
<td>DIN terminal</td>
</tr>
<tr>
<td></td>
<td>With multi-connector</td>
<td>Grommet terminal</td>
</tr>
<tr>
<td></td>
<td>With D-sub connector</td>
<td></td>
</tr>
<tr>
<td>Applicable valve model</td>
<td>VFS4-000-C</td>
<td>VFS4-10-D, VFS4-10-C</td>
</tr>
<tr>
<td>Porting specifications</td>
<td>Common SUP, Common EXH</td>
<td></td>
</tr>
<tr>
<td>Rc</td>
<td>2(B), 4(A) port</td>
<td>Side: Rc 3/8, 1/2, Bottom: Rc 3/8</td>
</tr>
<tr>
<td></td>
<td>(P), (3R2), (5R1) port</td>
<td>Side: Rc 1/2</td>
</tr>
<tr>
<td>Stations</td>
<td>2 to 10 *</td>
<td></td>
</tr>
</tbody>
</table>

*With multi-connector, or with D-sub connector: 8 stations max.

#### Control Unit/Option

<table>
<thead>
<tr>
<th>Air release valve type</th>
<th>Note 1) Voltage: 24 VDC to 100 VAC (Manifold base)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air release valve</td>
<td>Inner voltage drop: 4 V (single) and a release valve spacer can be used as an air release valve.</td>
</tr>
<tr>
<td></td>
<td>Note 2) Combination of a valve VFS410-5D (single) and a release valve can be used as an air release valve.</td>
</tr>
<tr>
<td></td>
<td>Note 3) The non plug-in type cannot be mounted afterwards.</td>
</tr>
</tbody>
</table>

#### How to Order

<table>
<thead>
<tr>
<th>VV5FS4</th>
<th>01C</th>
<th>D</th>
<th>08</th>
<th>1</th>
<th>03</th>
<th>AP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series VFS4000 Manifold</td>
<td>Base type/Electrical entry</td>
<td>Control equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>01T</td>
<td>Plug-in type with terminal block</td>
<td>Symbol</td>
<td>Nil</td>
<td>A</td>
<td>AP</td>
<td>M</td>
</tr>
<tr>
<td>01C</td>
<td>Plug-in type with multi-connector</td>
<td>Air filter with auto-drain</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>01F</td>
<td>Plug-in type with D-sub connector</td>
<td>Air filter with manual drain</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Non plug-in type</td>
<td>Regulator</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Air release valve</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pressure switch</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blanking plate (Air release valve)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blanking plate (Filter, Regulator)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blanking plate (Pressure switch)</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of manifold blocks required for mounting (stations)</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

*Non plug-in type: In order to mount control unit, it requires 2 stations.

**Example**

- Plug-in type with terminal block: In order to mount control unit, it requires 2 stations. (Manifold base) VV5FS4-01T-081-03-AP5  
  (2 position single) VFS4100-5FZ  
  (2 position double) VFS4200-5FZ
- Non plug-in type: In order to mount control unit, it requires 2 stations. (Manifold base) VV5FS4-10-061-03-A  
  (2 position single) VFS4110-5D

#### Control unit type

<table>
<thead>
<tr>
<th>Control equipment</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>AP</td>
<td>AP</td>
</tr>
<tr>
<td>M</td>
<td>M</td>
</tr>
<tr>
<td>MP</td>
<td>MP</td>
</tr>
<tr>
<td>F</td>
<td>F</td>
</tr>
<tr>
<td>G</td>
<td>G</td>
</tr>
<tr>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>E</td>
<td>E</td>
</tr>
</tbody>
</table>

For bottom ported, Rc 3/8 is only available.
Series **VFS4000**

### Manifold with Control Unit

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

**Plug-in type: VV5FS4-01T**

**Station 1**

- Port size: AP

**Voltage for release valve**

<table>
<thead>
<tr>
<th>Formula</th>
<th>L1</th>
<th>L2</th>
<th>L3 (MP)</th>
<th>L3 (AP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>199</td>
<td>242</td>
<td>328</td>
<td>371</td>
</tr>
<tr>
<td>4</td>
<td>211</td>
<td>254</td>
<td>340</td>
<td>383</td>
</tr>
<tr>
<td>5</td>
<td>222</td>
<td>277</td>
<td>340</td>
<td>383</td>
</tr>
<tr>
<td>6</td>
<td>244</td>
<td>304</td>
<td>383</td>
<td>436</td>
</tr>
<tr>
<td>7</td>
<td>266</td>
<td>365</td>
<td>436</td>
<td>499</td>
</tr>
<tr>
<td>8</td>
<td>288</td>
<td>426</td>
<td>537.5</td>
<td>599</td>
</tr>
<tr>
<td>9</td>
<td>310</td>
<td>487</td>
<td>600.5</td>
<td>663</td>
</tr>
<tr>
<td>10</td>
<td>332</td>
<td>548</td>
<td>663</td>
<td>728</td>
</tr>
</tbody>
</table>

**Example for manifold**

- Individual EXH spacer
- Double check spacer
- Individual SUP spacer
- Outlet for check

### Non plug-in type: VV5FS4-10T

**Station 1**

- Port size: AP

**Voltage for release valve**

**Example for manifold**

- Individual EXH spacer
- Double check spacer
- Individual SUP spacer
- Outlet for check

---

**Series VFS4000**

3-8-82
Manifold Option Parts

Individual SUP spacer:
VVFS4000-P-03-1 (Plug-in type)
VVFS4000-P-03-2 (Non plug-in type)

Double check spacer:
VVFS4000-22A-1 (Plug-in type)
VVFS4000-22A-2 (Non plug-in type)

Individual EXH spacer:
VVFS4000-R-04-1 (Plug-in type)
VVFS4000-R-04-2 (Non plug-in type)

Interface regulator/P port regulation:
ARBF4050-00-P-1 (Plug-in type)
ARBF4050-00-P-2 (Non plug-in type)

Interface regulator/A port regulation:
ARBF4050-00-A-1 (Plug-in type)
ARBF4050-00-A-2 (Non plug-in type)

Interface regulator/B port regulation:
ARBF4050-00-B-1 (Plug-in type)
ARBF4050-00-B-2 (Non plug-in type)

SUP block disk: AXT634-10A
EXH block disk: AXT634-11A

Block disk mounting position

Plug-in type, Non plug-in type

(1/2 WJ direct manual override)

(1/2 WJ direct manual override)

(1/2 WJ direct manual override)

(1/2 WJ direct manual override)

(1/2 WJ direct manual override)
### Replacement Parts

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Connection fitting A</td>
<td>Steel plate</td>
<td>VVF4000-5-1A</td>
</tr>
<tr>
<td>2</td>
<td>Connection fitting B</td>
<td>Steel plate</td>
<td>VVF4000-5-2</td>
</tr>
<tr>
<td>3</td>
<td>Gasket</td>
<td>NBR</td>
<td>VVF4000-7 (End plate)</td>
</tr>
<tr>
<td>4</td>
<td>Gasket</td>
<td>NBR</td>
<td>VVF4000-7-1 (Manifold block)</td>
</tr>
<tr>
<td>5</td>
<td>Gasket</td>
<td>NBR</td>
<td>VVF4000-8</td>
</tr>
<tr>
<td>6</td>
<td>O-ring</td>
<td>NBR</td>
<td>AS568-011</td>
</tr>
<tr>
<td>7</td>
<td>O-ring</td>
<td>NBR</td>
<td>P-3</td>
</tr>
<tr>
<td>8</td>
<td>Terminal assembly</td>
<td>—</td>
<td>VVF4000-6A</td>
</tr>
<tr>
<td>9</td>
<td>Junction cover assembly</td>
<td>For 01T</td>
<td>VVF4000-4A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For 01SU</td>
<td>AZ738-30A</td>
</tr>
<tr>
<td>10</td>
<td>Rubber plug</td>
<td>NBR</td>
<td>AXT336-9</td>
</tr>
</tbody>
</table>

### Replacement Parts: Sub Assembly

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Assembly part no.</th>
<th>Component parts</th>
<th>Applicable manifold base</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Manifold block assembly</td>
<td>VVF4000-1A-1-04</td>
<td>Manifold block 19, Terminal 9, Metal joint 1, 2, Gasket 4, Receptacle assembly</td>
<td>Plug-in type</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VVF4000-1A-2-04</td>
<td>Manifold block 19, Metal joint 1, 2, Gasket 4</td>
<td>Non plug-in type</td>
</tr>
<tr>
<td>10</td>
<td>End plate (U side) assembly</td>
<td>VVF4000-2A-1</td>
<td>End plate (U) 11, Metal joint 1, 2</td>
<td>Plug-in type</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VVF4000-2A-2</td>
<td>End plate (U) 11, Metal joint 1, 2</td>
<td>Non plug-in type</td>
</tr>
<tr>
<td>11</td>
<td>End plate (D side) assembly</td>
<td>VVF4000-3A-1</td>
<td>End plate (D) 12, Metal joint 1, 2, Gasket 3, 5, O-ring 6, 7</td>
<td>Plug-in type</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VVF4000-3A-2</td>
<td>End plate (D) 12, Metal joint 1, 2, Gasket 3, 5, O-ring 5, 6</td>
<td>Non plug-in type</td>
</tr>
</tbody>
</table>

*For increasing the manifold bases, please order the manifold block assembly number of the principal part assembly 9. For plug-in type: The manifold base with terminal stand (integrated with a junction cover) is required with the 9 junction cover assembly.*

Note: Manifold Base/Construction: Plug-in type with terminal block.
**Solenoid Valves**

**Series NVFS**

**HOW TO ORDER**

**NVFS 40000**

- **Position**
  1  ... 2 Position Single
  2  ... 2 Position Double
  3  ... 3 Position Closed Center
  4  ... 3 Position Exhaust Center
  5  ... 3 Position Pressure Center
  6  ... 3 Position Perfect

- **Body Type**
  0  ... Plug-In Type

- **Manual Option**
  0  ... Standard
  1  ... Std & Direct
  Manual (Special Order)

- **Pilot Operator**
  -  ... Internal
  R  ... External (Special Order)

- **Voltage**
  1  ... 100VAC (Special Order)
  2  ... 200VAC (Special Order)
  3  ... 110VAC
  4  ... 220VAC
  5  ... 24VDC
  6  ... 12VDC
  9  ... Others (Special Order)

- **Electrical Entry**
  F  ... Through Base

- **How to Order**
  NVFS 4
  0  ... Plug-In Type

**How to Order**

**Manifold**

**Position**

- **Port Size**
  - ... Without Subplate
  03T  ... 3/8 NPTF
  *04T  ... 1/2 NPTF
  * EA, EB: 3/8 NPTF
  Bottom Ported: 3/8 Only

- **Porting**
  - ... Side
  *B  ... Bottom
  Note) *1/8 NPTF Only

- **Manual Override**
  - ... Non-Locking Push Type (Flush)
  *A  ... Non-Locking Push Type (Extended)
  B  ... Lock Type (Screw Type)
  *C  ... Lock Type (Lever)

  Note) * Special Order

- **Options**
  - ... None
  2  ... With Indicator Light and Surge Voltage Suppressor

**Port Size**

- **Plug-In Type: With Terminal Block**

- **Lead wires of solenoid valve are connected with the terminals on upper surface of terminal block, corresponding lead wires from power source can be wired at the bottom of terminal block.**

**NVFS 4000**

**Manifold valve**

**Plug-in type With terminal block**

**Stations**

- **02** 2 stations
- **10** 10 stations

**Symbol**

<table>
<thead>
<tr>
<th>Port specifications</th>
<th>Porting</th>
<th>Porting specifications (A,B)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>EA, EB</td>
<td>Side</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>#Bottom Mixed</td>
</tr>
</tbody>
</table>

*Special order.
**Manifold / Option Parts**

**SUP Relocation spacer**
An individual SUP spacer on manifold block can form individual P port for the valve.

<table>
<thead>
<tr>
<th>Body type</th>
<th>Plug-in type</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>NVVFS4000-P-03T-1</td>
</tr>
</tbody>
</table>

**EXH Relocation spacer**
An individual EXH spacer on manifold block can form individual R port for the valve.

<table>
<thead>
<tr>
<th>Body type</th>
<th>Plug-in type</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>NVVFS4000-P-04T-1</td>
</tr>
</tbody>
</table>

**SUP gallery block disc**
When supplying manifold with more than one pressure, insert block disc in between stations subjected to different pressures.

<table>
<thead>
<tr>
<th>Body type</th>
<th>Plug-in type</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AXT634-10A</td>
</tr>
</tbody>
</table>

**EXH gallery block disc**
When valve exhaust affects the other stations on the circuit or when the reverse pressure valve is used on a standard manifold, insert EXH block disc(s) in between stations to separate valve exhaust.

<table>
<thead>
<tr>
<th>Body type</th>
<th>Plug-in type</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AXT634-11A</td>
</tr>
</tbody>
</table>

**Interface speed control**
Needle valve on the manifold block can control cylinder speed by throttling exhaust.

<table>
<thead>
<tr>
<th>Body type</th>
<th>Plug-in type</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>NVVFS4000-20A-1</td>
</tr>
</tbody>
</table>

**Double Check “Perfect” spacer**
The concurrent use of perfect spacer with built-in double check valve can stop the cylinder at mid-position and hold for extended time without being affected by normal air leakage across the spool seals.

<table>
<thead>
<tr>
<th>Body type</th>
<th>Plug-in type</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>NVVFS4000-22A-1</td>
</tr>
</tbody>
</table>

**Interface regulator**
Spacer type regulating valve on manifold block can regulate the pressure to the valve. With std. gauge.

<table>
<thead>
<tr>
<th>Body type</th>
<th>Plug-in type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Regulation P</td>
<td>NARB4000-N0-P-1</td>
</tr>
<tr>
<td>Pressure Regulation A</td>
<td>NARB4000-N0-A-1</td>
</tr>
<tr>
<td>Pressure Regulation B</td>
<td>NARB4000-N0-B-1</td>
</tr>
</tbody>
</table>

**Blank plate: VVFS4000-10A**
When disassembling valve for maintenance purposes or when spare manifold stations are required, install Blank plate on the manifold block.

<table>
<thead>
<tr>
<th>Body type</th>
<th>Plug-in type</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>VVFS4000-10A</td>
</tr>
</tbody>
</table>

**Manifold Options**

**With exhaust cleaner unit**
Plug-in type
- Valve exhaust noise damping: 35db or more.
- Oil mist collection: Rate of collection 99.9% or more.
- Piping process reduced.

**With Control Unit**
Plug-in type
- Filter/Regulator, Pressure Switch, and Air shutoff valve all combine to form one unit.
- Piping work eliminated.

For more information, refer to catalog N233

For more information, refer to catalog N233