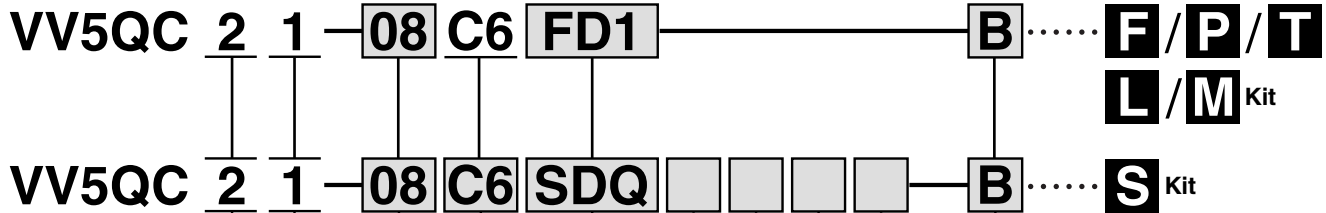


# Series VQC2000 Base Mounted Plug-in Unit

## How to Order Manifold



**Series**  
2 VQC2000

**Manifold model**  
1 Plug-in unit

**Stations**  
01 1 station  
: :  
The maximum number of stations differs depending on the electrical entry.

**Cylinder port size**

|    |   |
|----|---|
| C4 | With ø4 One-touch fitting                     |
| C6 | With ø6 One-touch fitting                     |
| C8 | With ø8 One-touch fitting                     |
| CM | Mixed sizes and with port plug                |
| L4 | Top ported elbow With ø4 One-touch fitting    |
| L6 | Top ported elbow With ø6 One-touch fitting    |
| L8 | Top ported elbow With ø8 One-touch fitting    |
| B4 | Bottom ported elbow With ø4 One-touch fitting |
| B6 | Bottom ported elbow With ø6 One-touch fitting |
| B8 | Bottom ported elbow With ø8 One-touch fitting |
| LM | Elbow port, mixed sizes                       |

Note 1) Indicate the size in the specification sheet in the case of "CM" and "LM".

Note 2) Symbols for inch sizes are as follows:  
<For One-touch fittings>  
N3: ø5/32"  
N7: ø1/4"  
N9: ø5/16"  
NM: Mixed

The top ported elbow is LN□ and the bottom ported elbow is BN□.

**Kit designation/Electrical entry/Cable length**  
(Refer to page 2-2-16 for detailed information on kits.)

**SI unit COM.**

| SI unit COM | EX250     |             |         |      |         | EX500     |             |         |            | EX126   |
|-------------|-----------|-------------|---------|------|---------|-----------|-------------|---------|------------|---------|
|             | DeviceNet | PROFIBUS-DP | CC-LINK | AS-i | CANopen | DeviceNet | PROFIBUS-DP | CC-LINK | Remote I/O | CC-LINK |
| Nil         | +COM      | —           | —       | ○    | —       | ○         | ○           | ○       | ○          | ○       |
| N           | -COM      | ○           | ○       | —    | ○       | ○         | ○           | ○       | ○          | —       |

Note) Leave the box blank for the SI unit COM without SI unit (SD0).

**Number of input blocks (Fill out for I/O unit only)**

|     |                                   |
|-----|-----------------------------------|
| Nil | Without SI unit/input block (SD0) |
| 0   | Without input block               |
| 1   | With 1 input block                |
| :   | :                                 |
| 8   | With 8 input blocks               |

**Option**

|     |   |
|-----|---|
| Nil | None  |
| B   | All stations with back pressure check valve Note 1) |
| D   | With DIN rail (Rail length: Standard)               |
| D□  | With DIN rail (Rail length: Special) Note 2)        |
| K   | Special wiring specifications Note 3)               |
| N   | With name plate                                     |
| R   | External pilot Note 4)                              |
| S   | Direct exhaust with built-in silencer Note 5)       |
| T   | Branched P and R ports on U side Note 6)            |

\* When specifying more than one option, enter symbols in alphabetical order.  
Example: -BRS

Note 1) When using the back pressure check valve for the necessary stations only, enter the back pressure check valve part no. and indicate the number of manifold stations on the specification sheet.

Note 2) For special DIN rail length, indicate "D□". (Enter the number of stations inside □.)  
Example: -D08  
In this case, stations will be mounted on a DIN rail for 8 stations regardless of the actual number of manifold stations. The specified number of stations must be larger than the number of stations on the manifold. Indicate "-D0" for the option without DIN rail.

Note 3) Be sure to indicate the wiring specifications on the specification sheet.

Note 4) For external pilot option, "-R", indicate the external pilot specification "R" for the applicable valves as well.

Note 5) The built-in silencer type does not satisfy the IP67 standard.

Note 6) The SUP and EXH ports on U side are branched (toward the cylinder port and coil) with ø12 one-touch fittings for connection.

**Input block COM. (Fill out for I/O unit only)**

|     |  |
|-----|--|
| Nil | PNP (+) or without SI unit/input block |
| N   | NPN (-)                                |

**Input block type (Fill out for I/O unit only)**

|     |                       |
|-----|-----------------------|
| Nil | Without input block   |
| 1   | M12, 2 inputs         |
| 2   | M12, 4 inputs         |
| 3   | M8, 4 inputs (3 pins) |

- VQC
- SQ
- VQ0
- VQ4
- VQ5
- VQZ
- VQD

## How to Order Valves

**VQC 2 1 0 0 5**

**Series**  
2 VQC2000

**Type of actuation**

|   |   |                                  |   |
|---|---|----------------------------------|---|
| 1 | 2 position single<br>(A)(B)<br>4 2<br>5 1 3<br>(R1)(P)(R2)          | <b>A</b><br>Note)                | 4 position dual 3 port valve<br>(A) (A) (B)<br>4 4 2<br>5 1 3<br>(R1) 1 (R2)<br>N.C (P) N.C |
|   | 2 position double (metal)<br>(A)(B)<br>4 2<br>5 1 3<br>(R1)(P)(R2)  | <b>B</b><br>Note)                | 4 position dual 3 port valve<br>(B) (A) (B)<br>4 4 2<br>5 1 3<br>(R1) 1 (R2)<br>N.O (P) N.O |
| 2 | 2 position double (rubber)<br>(A)(B)<br>4 2<br>5 1 3<br>(R1)(P)(R2) | <b>C</b><br>Note)                | 4 position dual 3 port valve<br>(C) (A) (B)<br>4 4 2<br>5 1 3<br>(R1) 1 (R2)<br>N.C (P) N.O |
|   | 3 position closed center<br>(A)(B)<br>4 2<br>5 1 3<br>(R1)(P)(R2)   | Note) For rubber seal type only. |   |
| 3 | 3 position exhaust center<br>(A)(B)<br>4 2<br>5 1 3<br>(R1)(P)(R2)  |                                  |   |
| 4 | 3 position pressure center<br>(A)(B)<br>4 2<br>5 1 3<br>(R1)(P)(R2) |                                  |   |
| 5 |   |                                  |   |

**Manual override**

**Nil:** Non-locking push type (Slotted)  
**B:** Locking type (Slotted)  
**C:** Locking type (Manual)  
**D:** Slide locking type (Manual)

**Light/Surge voltage suppressor**

|     |               |
|-----|---------------|
| Nil | With          |
| E   | Without Note) |

Note) Not applicable to S kit.

**Coil voltage**

|   |              |
|---|--------------|
| 5 | 24 VDC Note) |
| 6 | 12 VDC       |

Note) S kit is only available for 24 VDC.

**Function**

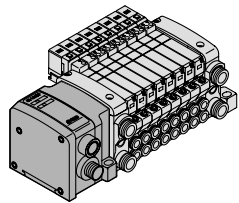
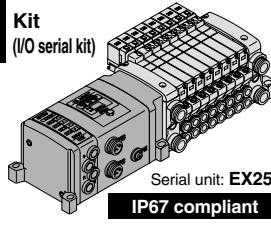
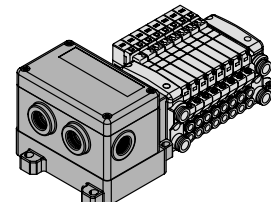
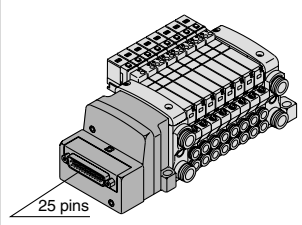
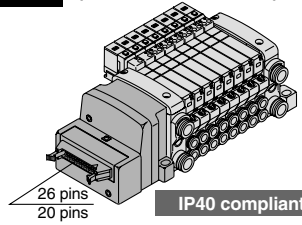
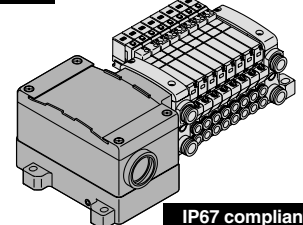
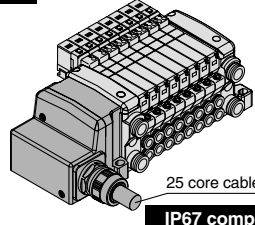
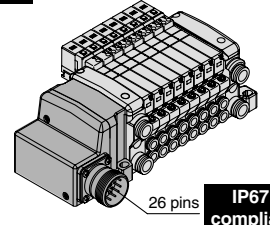
|           |                              |
|-----------|------------------------------|
| Nil       | Standard type (1 W)          |
| K Note 1) | High pressure type (1.0 MPa) |
| N         | Negative COM                 |
| R Note 2) | External pilot               |
| Y         | Low wattage type (0.5 W)     |

\* When specifying more than one option, enter symbols in alphabetical order.  
Note 1) For metal seal type only.  
Note 2) Not applicable for dual 3 port valve.

**Seal type**

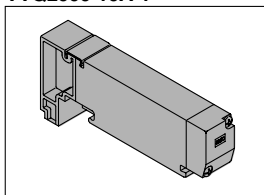
|   |             |
|---|-------------|
| 0 | Metal seal  |
| 1 | Rubber seal |

### Kit Designation/Electrical Entry/Cable Length

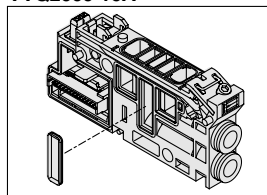
|  |  |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
|--|--|---|--|------|--|--------------------------------|------|--|--|--|--|----------------------------|-----|---|-------------------------------|--|-----|--------------------------|--------------------------------|--|----------------------------|---|-----|------------------------|---|--------------------------------|--|---|------|--|------------------------------|--|--|------------------------------|---|--|------------------------------|--|------|------------------------|---|---|-----|---|--|-----|--|--------------------------------|-----|--|--|-----|--|--|
| <p><b>S</b> Kit<br/>(Decentralized wiring type serial kit)</p>  <p>Serial unit: <b>EX500</b> IP67 compliant</p> <p>Note) A separate gateway unit and communication cable are required.</p> <table border="1"> <tr> <td>SD0</td> <td>Serial kit without SI unit</td> <td></td> </tr> <tr> <td>SDA1</td> <td>Serial kit for Remote I/O</td> <td>1 to 8 stations (16 stations)</td> </tr> <tr> <td>SDA2</td> <td>Serial kit for DeviceNet/PROFIBUS-DP/CC-LINK</td> <td></td> </tr> </table>  | SD0  | Serial kit without SI unit                |  | SDA1 | Serial kit for Remote I/O                    | 1 to 8 stations (16 stations)  | SDA2 | Serial kit for DeviceNet/PROFIBUS-DP/CC-LINK |  | <p><b>S</b> Kit<br/>(I/O serial kit)</p>  <p>Serial unit: <b>EX250</b> IP67 compliant</p> <table border="1"> <tr> <td>SD0</td> <td>Serial kit without SI unit</td> <td></td> </tr> <tr> <td>SDY</td> <td>Serial kit for CANopen</td> <td></td> </tr> <tr> <td>SDQ</td> <td>Serial kit for DeviceNet</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>SDN</td> <td>Serial kit for PROFIBUS-DP</td> <td></td> </tr> <tr> <td>SDV</td> <td>Serial kit for CC-LINK</td> <td></td> </tr> <tr> <td>SDTA</td> <td>AS-4, 8 in/out, 31 slave modes, 2 power supply systems</td> <td>1 to 4 stations (8 stations)</td> </tr> <tr> <td>SDTB</td> <td>AS-4, 4 in/out, 31 slave modes, 2 power supply systems</td> <td>1 to 2 stations (4 stations)</td> </tr> <tr> <td>SDTC</td> <td>AS-4, 8 in/out, 31 slave modes, 1 power supply systems</td> <td>1 to 4 stations (8 stations)</td> </tr> <tr> <td>SDTD</td> <td>AS-4, 4 in/out, 31 slave modes, 1 power supply systems</td> <td>1 to 2 stations (4 stations)</td> </tr> </table> | SD0  | Serial kit without SI unit |     | SDY                                       | Serial kit for CANopen        |  | SDQ | Serial kit for DeviceNet | 1 to 12 stations (24 stations) | SDN  | Serial kit for PROFIBUS-DP |   | SDV | Serial kit for CC-LINK |   | SDTA                           | AS-4, 8 in/out, 31 slave modes, 2 power supply systems | 1 to 4 stations (8 stations)            | SDTB | AS-4, 4 in/out, 31 slave modes, 2 power supply systems   | 1 to 2 stations (4 stations) | SDTC                                       | AS-4, 8 in/out, 31 slave modes, 1 power supply systems | 1 to 4 stations (8 stations) | SDTD  | AS-4, 4 in/out, 31 slave modes, 1 power supply systems | 1 to 2 stations (4 stations) | <p><b>S</b> Kit<br/>(Serial output kit)</p>  <p>Serial unit: <b>EX126</b> IP67 compliant</p> <table border="1"> <tr> <td>SDVB</td> <td>Serial kit for CC-LINK</td> <td>1 to 8 stations (16 stations)</td> </tr> </table> | SDVB | Serial kit for CC-LINK | 1 to 8 stations (16 stations)                 | <p><b>F</b> Kit<br/>(D-sub connector kit)</p>  <p>25 pins</p> <p>IP40 compliant</p> <table border="1"> <tr> <td>FD0</td> <td>D-sub connector kit (25P) without cable</td> <td></td> </tr> <tr> <td>FD1</td> <td>D-sub connector kit (25P) with 1.5 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>FD2</td> <td>D-sub connector kit (25P) with 3.0 m cable</td> <td></td> </tr> <tr> <td>FD3</td> <td>D-sub connector kit (25P) with 5.0 m cable</td> <td></td> </tr> </table> | FD0 | D-sub connector kit (25P) without cable |  | FD1 | D-sub connector kit (25P) with 1.5 m cable | 1 to 12 stations (24 stations) | FD2 | D-sub connector kit (25P) with 3.0 m cable |  | FD3 | D-sub connector kit (25P) with 5.0 m cable |  |
| SD0  | Serial kit without SI unit                             |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| SDA1   | Serial kit for Remote I/O                              | 1 to 8 stations (16 stations)             |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| SDA2   | Serial kit for DeviceNet/PROFIBUS-DP/CC-LINK           |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| SD0  | Serial kit without SI unit                             |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| SDY  | Serial kit for CANopen                                 |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| SDQ  | Serial kit for DeviceNet                               | 1 to 12 stations (24 stations)            |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| SDN  | Serial kit for PROFIBUS-DP                             |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| SDV  | Serial kit for CC-LINK                                 |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| SDTA   | AS-4, 8 in/out, 31 slave modes, 2 power supply systems | 1 to 4 stations (8 stations)              |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| SDTB   | AS-4, 4 in/out, 31 slave modes, 2 power supply systems | 1 to 2 stations (4 stations)              |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| SDTC   | AS-4, 8 in/out, 31 slave modes, 1 power supply systems | 1 to 4 stations (8 stations)              |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| SDTD   | AS-4, 4 in/out, 31 slave modes, 1 power supply systems | 1 to 2 stations (4 stations)              |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| SDVB   | Serial kit for CC-LINK                                 | 1 to 8 stations (16 stations)             |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| FD0  | D-sub connector kit (25P) without cable                |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| FD1  | D-sub connector kit (25P) with 1.5 m cable             | 1 to 12 stations (24 stations)            |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| FD2  | D-sub connector kit (25P) with 3.0 m cable             |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| FD3  | D-sub connector kit (25P) with 5.0 m cable             |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| <p><b>P</b> Kit<br/>(Flat ribbon cable kit)</p>  <p>26 pins<br/>20 pins</p> <p>Note) For a 20P flat ribbon cable, the cable assembly must be ordered separately.</p> <table border="1"> <tr> <td>PD0</td> <td>Flat ribbon cable kit (26P) without cable</td> <td></td> </tr> <tr> <td>PD1</td> <td>Flat ribbon cable kit (26P) with 1.5 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>PD2</td> <td>Flat ribbon cable kit (26P) with 3.0 m cable</td> <td></td> </tr> <tr> <td>PD3</td> <td>Flat ribbon cable kit (26P) with 5.0 m cable</td> <td></td> </tr> <tr> <td>PDC</td> <td>Flat ribbon cable kit (20P) without cable</td> <td>1 to 9 stations (18 stations)</td> </tr> </table> | PD0  | Flat ribbon cable kit (26P) without cable |  | PD1  | Flat ribbon cable kit (26P) with 1.5 m cable | 1 to 12 stations (24 stations) | PD2  | Flat ribbon cable kit (26P) with 3.0 m cable |  | PD3  | Flat ribbon cable kit (26P) with 5.0 m cable |                            | PDC | Flat ribbon cable kit (20P) without cable | 1 to 9 stations (18 stations) | <p><b>T</b> Kit<br/>(Terminal block box kit)</p>  <p>IP67 compliant</p> <table border="1"> <tr> <td>TD0</td> <td>Terminal block box kit</td> <td>1 to 10 stations (20 stations)</td> </tr> </table> | TD0 | Terminal block box kit   | 1 to 10 stations (20 stations) | <p><b>L</b> Kit<br/>(Lead wire kit)</p>  <p>25 core cable</p> <p>IP67 compliant</p> <table border="1"> <tr> <td>LD0</td> <td>Lead wire kit (25 core) 0.6 m lead wire</td> <td></td> </tr> <tr> <td>LD1</td> <td>Lead wire kit (25 core) 1.5 m lead wire</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>LD2</td> <td>Lead wire kit (25 core) 3.0 m lead wire</td> <td></td> </tr> </table> | LD0                        | Lead wire kit (25 core) 0.6 m lead wire |     | LD1                    | Lead wire kit (25 core) 1.5 m lead wire | 1 to 12 stations (24 stations) | LD2  | Lead wire kit (25 core) 3.0 m lead wire |      | <p><b>M</b> Kit<br/>(Multiple connector kit)</p>  <p>26 pins</p> <p>IP67 compliant</p> <table border="1"> <tr> <td>MD0</td> <td>Multiple connector kit (26P) without cable</td> <td></td> </tr> <tr> <td>MD1</td> <td>Multiple connector kit (26P) with 1.5 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>MD2</td> <td>Multiple connector kit (26P) with 3.0 m cable</td> <td></td> </tr> <tr> <td>MD3</td> <td>Multiple connector kit (26P) with 5.0 m cable</td> <td></td> </tr> </table> | MD0                          | Multiple connector kit (26P) without cable |  | MD1                          | Multiple connector kit (26P) with 1.5 m cable | 1 to 12 stations (24 stations)                         | MD2                          | Multiple connector kit (26P) with 3.0 m cable  |      | MD3                    | Multiple connector kit (26P) with 5.0 m cable |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| PD0  | Flat ribbon cable kit (26P) without cable              |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| PD1  | Flat ribbon cable kit (26P) with 1.5 m cable           | 1 to 12 stations (24 stations)            |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| PD2  | Flat ribbon cable kit (26P) with 3.0 m cable           |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| PD3  | Flat ribbon cable kit (26P) with 5.0 m cable           |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| PDC  | Flat ribbon cable kit (20P) without cable              | 1 to 9 stations (18 stations)             |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| TD0  | Terminal block box kit                                 | 1 to 10 stations (20 stations)            |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| LD0  | Lead wire kit (25 core) 0.6 m lead wire                |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| LD1  | Lead wire kit (25 core) 1.5 m lead wire                | 1 to 12 stations (24 stations)            |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| LD2  | Lead wire kit (25 core) 3.0 m lead wire                |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| MD0  | Multiple connector kit (26P) without cable             |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| MD1  | Multiple connector kit (26P) with 1.5 m cable          | 1 to 12 stations (24 stations)            |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| MD2  | Multiple connector kit (26P) with 3.0 m cable          |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |
| MD3  | Multiple connector kit (26P) with 5.0 m cable          |   |  |      |  |                                |      |  |  |  |  |                            |     |   |                               |  |     |                          |                                |  |                            |   |     |                        |   |                                |  |   |      |  |                              |  |  |                              |   |  |                              |  |      |                        |   |   |     |   |  |     |  |                                |     |  |  |     |  |  |

**Manifold Option**

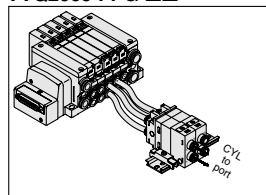
Blanking plate assembly  
VVQ2000-10A-1



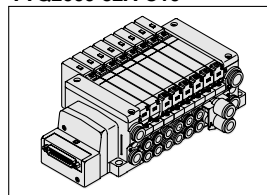
SUP block plate  
VVQ2000-16A



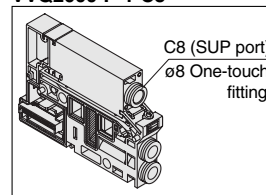
Perfect block  
VVQ2000-FPG-□□



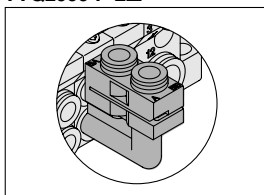
Dual flow fitting assembly  
VVQ2000-52A-C10



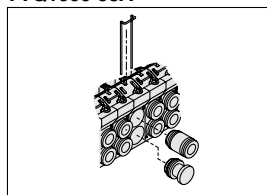
Individual SUP spacer  
VVQ2000-P-1-C8



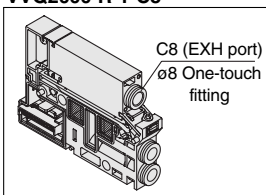
Elbow fitting assembly  
VVQ2000-F-L□



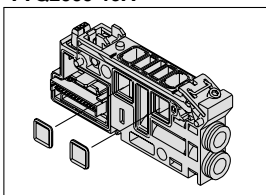
Port plug  
VVQ1000-58A



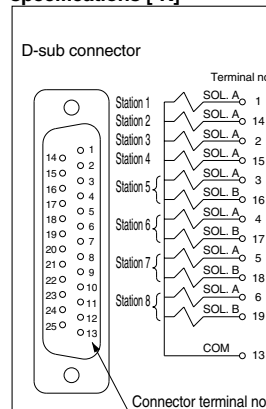
Individual EXH spacer  
VVQ2000-R-1-C8



EXH block plate  
VVQ2000-19A



Electrical wiring specifications [-K]



DIN rail mounting bracket [-D]  
VVQ2000-57A

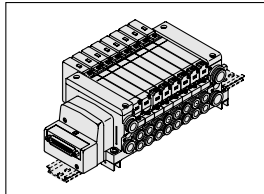
for (F, L, M, P, S (EX500) kit)

VVQ2000-57A-S

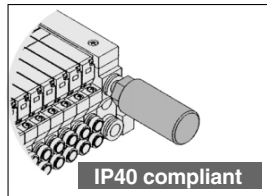
for (S (EX250) kit)

VVQ2000-57A-T

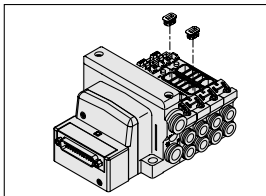
for (T, S (EX126) kit)



Silencer (for EXH port)  
AN200-KM10

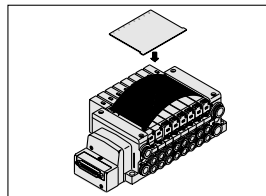


Back pressure check valve assembly [-B]  
VVQ2000-18A

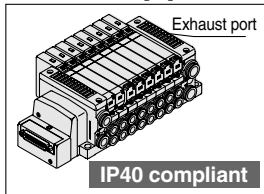


Name plate [-N]  
VVQ2000-N-Stations

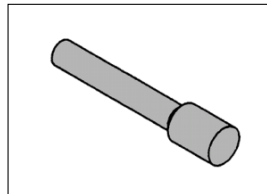
(1 to max. no. of stations)



Direct EXH outlet with built-in silencer [-S]



Blanking plug  
KQ2P-□



VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

# Series VQC

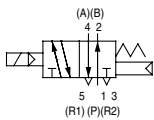
## Base Mounted

# Plug-in Unit

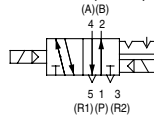


### JIS Symbol

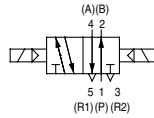
2 position single



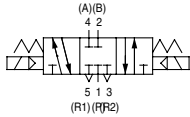
2 position double (metal)



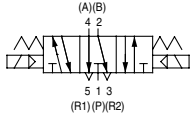
2 position double (rubber)



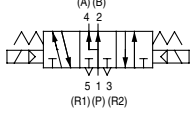
3 position closed center



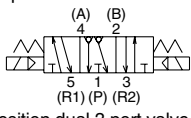
3 position exhaust center



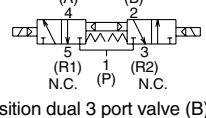
3 position pressure center



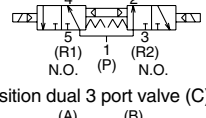
3 position exhaust center with pressure release valves



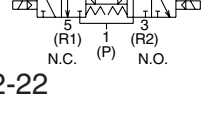
4 position dual 3 port valve (A)



4 position dual 3 port valve (B)



4 position dual 3 port valve (C)



2-2-22

### Model

| Series     | No. of solenoids  | Model           | Flow characteristics              |         |                |                             |      |                | Response time (ms) <sup>Note 2)</sup> |             | Weight (g) |            |     |     |
|------------|-------------------|-----------------|-----------------------------------|---------|----------------|-----------------------------|------|----------------|---------------------------------------|-------------|------------|------------|-----|-----|
|            |                   |                 | 1 → 4, 2 (P → A, B)               |         |                | 4, 2 → 5, 3 (A, B → R1, R2) |      |                | Standard: 1 W                         | Low wattage |            |            |     |     |
|            |                   |                 | C[dm <sup>3</sup> /(s·bar)]       | b       | C <sub>v</sub> | C[dm <sup>3</sup> /(s·bar)] | b    | C <sub>v</sub> |                                       |             |            |            |     |     |
| VQC1000    | 2 position        | Single          | Metal seal                        | VQC1100 | 0.70           | 0.15                        | 0.16 | 0.72           | 0.25                                  | 0.18        | 12 or less | 15 or less | 64  |     |
|            |                   |                 | Rubber seal                       | VQC1101 | 0.85           | 0.20                        | 0.21 | 1.0            | 0.30                                  | 0.25        | 15 or less | 20 or less |     |     |
|            |                   | Double          | Metal seal                        | VQC1200 | 0.70           | 0.15                        | 0.16 | 0.72           | 0.25                                  | 0.18        | 10 or less | 13 or less |     |     |
|            |                   |                 | Rubber seal                       | VQC1201 | 0.85           | 0.20                        | 0.21 | 1.0            | 0.30                                  | 0.25        | 15 or less | 20 or less |     |     |
|            | 3 position        | Closed center   | Metal seal                        | VQC1300 | 0.68           | 0.15                        | 0.16 | 0.72           | 0.25                                  | 0.18        | 20 or less | 26 or less |     | 78  |
|            |                   |                 | Rubber seal                       | VQC1301 | 0.70           | 0.20                        | 0.16 | 0.65           | 0.42                                  | 0.18        | 25 or less | 33 or less |     |     |
|            |                   | Exhaust center  | Metal seal                        | VQC1400 | 0.68           | 0.15                        | 0.16 | 0.72           | 0.25                                  | 0.18        | 20 or less | 26 or less |     |     |
|            |                   |                 | Rubber seal                       | VQC1401 | 0.70           | 0.20                        | 0.16 | 1.0            | 0.30                                  | 0.25        | 25 or less | 33 or less |     |     |
|            |                   | Pressure center | Metal seal                        | VQC1500 | 0.70           | 0.15                        | 0.16 | 0.72           | 0.25                                  | 0.18        | 20 or less | 26 or less |     |     |
|            |                   |                 | Rubber seal                       | VQC1501 | 0.85           | 0.20                        | 0.21 | 0.65           | 0.42                                  | 0.18        | 25 or less | 33 or less |     |     |
| 4 position | Dual 3 port valve | Rubber seal     | VQC1 <sup>A</sup> <sub>C</sub> 01 | 0.70    | 0.20           | 0.16                        | 0.70 | 0.20           | 0.16                                  | 25 or less  | 33 or less |            |     |     |
| VQC2000    | 2 position        | Single          | Metal seal                        | VQC2100 | 2.0            | 0.15                        | 0.46 | 2.6            | 0.15                                  | 0.60        | 22 or less | 29 or less | 90  |     |
|            |                   |                 | Rubber seal                       | VQC2101 | 2.2            | 0.28                        | 0.55 | 3.2            | 0.30                                  | 0.80        | 24 or less | 31 or less |     |     |
|            |                   | Double          | Metal seal                        | VQC2200 | 2.0            | 0.15                        | 0.46 | 2.6            | 0.15                                  | 0.60        | 15 or less | 20 or less |     |     |
|            |                   |                 | Rubber seal                       | VQC2201 | 2.2            | 0.28                        | 0.55 | 3.2            | 0.30                                  | 0.80        | 20 or less | 26 or less |     |     |
|            | 3 position        | Closed center   | Metal seal                        | VQC2300 | 2.0            | 0.15                        | 0.46 | 2.0            | 0.18                                  | 0.46        | 29 or less | 38 or less |     | 110 |
|            |                   |                 | Rubber seal                       | VQC2301 | 2.0            | 0.28                        | 0.49 | 2.2            | 0.31                                  | 0.60        | 34 or less | 44 or less |     |     |
|            |                   | Exhaust center  | Metal seal                        | VQC2400 | 2.0            | 0.15                        | 0.46 | 2.6            | 0.15                                  | 0.60        | 29 or less | 38 or less |     |     |
|            |                   |                 | Rubber seal                       | VQC2401 | 2.0            | 0.28                        | 0.49 | 3.2            | 0.30                                  | 0.80        | 34 or less | 44 or less |     |     |
|            |                   | Pressure center | Metal seal                        | VQC2500 | 2.4            | 0.17                        | 0.57 | 2.0            | 0.18                                  | 0.46        | 29 or less | 38 or less |     |     |
|            |                   |                 | Rubber seal                       | VQC2501 | 3.2            | 0.28                        | 0.80 | 2.2            | 0.31                                  | 0.60        | 34 or less | 44 or less |     |     |
| 4 position | Dual 3 port valve | Rubber seal     | VQC2 <sup>A</sup> <sub>C</sub> 01 | 1.8     | 0.28           | 0.46                        | 1.8  | 0.28           | 0.46                                  | 34 or less  | 44 or less |            |     |     |
| VQC4000    | 2 position        | Single          | Metal seal                        | VQC4100 | 6.2            | 0.19                        | 1.5  | 6.9            | 0.17                                  | 1.7         | 20 or less | 22 or less | 230 |     |
|            |                   |                 | Rubber seal                       | VQC4101 | 7.2            | 0.43                        | 2.1  | 7.3            | 0.38                                  | 2.0         | 25 or less | 27 or less |     |     |
|            |                   | Double          | Metal seal                        | VQC4200 | 6.2            | 0.19                        | 1.5  | 6.9            | 0.17                                  | 1.7         | 12 or less | 12 or less |     |     |
|            |                   |                 | Rubber seal                       | VQC4201 | 7.2            | 0.43                        | 2.1  | 7.3            | 0.38                                  | 2.0         | 15 or less | 15 or less |     |     |
|            | 3 position        | Closed center   | Metal seal                        | VQC4300 | 5.9            | 0.23                        | 1.5  | 6.3            | 0.18                                  | 1.6         | 45 or less | 47 or less | 280 |     |
|            |                   |                 | Rubber seal                       | VQC4301 | 7.0            | 0.34                        | 1.9  | 6.4            | 0.42                                  | 1.9         | 50 or less | 52 or less |     |     |
|            |                   | Exhaust center  | Metal seal                        | VQC4400 | 6.2            | 0.18                        | 1.5  | 6.9            | 0.17                                  | 1.7         | 45 or less | 47 or less |     |     |
|            |                   |                 | Rubber seal                       | VQC4401 | 7.0            | 0.38                        | 1.9  | 7.3            | 0.38                                  | 2.0         | 50 or less | 52 or less |     |     |
|            |                   | Pressure center | Metal seal                        | VQC4500 | 6.2            | 0.18                        | 1.9  | 6.4            | 0.18                                  | 1.6         | 45 or less | 47 or less |     |     |
|            |                   |                 | Rubber seal                       | VQC4501 | 7.0            | 0.38                        | 1.9  | 7.1            | 0.38                                  | 2.0         | 50 or less | 52 or less |     |     |
| Perfect    | Metal seal        | VQC4600         | 2.7                               | —       | —              | 3.7                         | —    | —              | 55 or less                            | 57 or less  | 500        |            |     |     |
|            | Rubber seal       | VQC4601         | 2.8                               | —       | —              | 3.9                         | —    | —              | 62 or less                            | 64 or less  |            |            |     |     |



Note 1) Values represented in this column are in the following conditions:

VQC1000: Cylinder port size C6 without a back pressure check valve  
VQC2000: Cylinder port size C8 without a back pressure check valve  
VQC4000: Cylinder port size Rc 3/8

Note 2) Values represented in this column are based on JIS B 8375-1981 (operating with clean air and a supply pressure of 0.5 MPa. Equipped with light/surge voltage suppressor. Values vary depending on the pressure as well as the air quality.) Values for double types are when the switch is ON.

### Standard Specifications

| Valve Configuration                    |                               | Metal seal  |                                  | Rubber seal  |          |  |
|--|-------------------------------|---|----------------------------------|--|----------|--|
|  |                               | Air/Inert gas   |                                  |  |          |  |
| Valve specifications                   | VQC1000/2000                  | Max. operating pressure   |                                  | 0.7 MPa (High pressure type: 1.0 MPa) <sup>Note 4)</sup> |          |  |
|  |                               | Min. operating pressure   | Single                           | 0.1 MPa  | 0.15 MPa |  |
|  |                               |   | Double                           | 0.1 MPa  |          |  |
|  |                               |   | 3 position                       | 0.1 MPa  | 0.2 MPa  |  |
|  |                               |   | 4 position                       | —  | 0.15 MPa |  |
|  | VQC4000                       | Max. operating pressure <sup>Note 3)</sup>  |                                  | 1.0 MPa (0.7 MPa)  |          |  |
|  |                               | Min. operating pressure   | Single                           | 0.15 MPa   | 0.2 MPa  |  |
|  |                               |   | Double                           | 0.15 MPa   |          |  |
|  | 3 position                    | 0.15 MPa  | 0.2 MPa                          |  |          |  |
|  | Proof pressure                |   | 1.5 MPa                          |  |          |  |
| Ambient and fluid temperature          |                               | -10 to 50°C <sup>Note 1)</sup>  |                                  |  |          |  |
| Lubrication                            |                               | Not required  |                                  |  |          |  |
| Manual override                        |                               | Push type/Locking type (tool required)/Locking type (Manual override) <sup>Note 5)</sup> /Slide locking type <sup>Note 5)</sup> |                                  |  |          |  |
| Impact resistance/Vibration resistance |                               | 150/30 m/s <sup>2</sup> <sup>Note 2)</sup>  |                                  |  |          |  |
| Enclosure                              |                               | Dust proof (IP67 compliant)   |                                  |  |          |  |
| Electrical specifications              | Rated coil voltage            |   | 24 VDC                           |  |          |  |
|  | Allowable voltage fluctuation |   | ±10% of rated voltage            |  |          |  |
|  | Coil insulation type          |   | Equivalent to B type             |  |          |  |
|  | Power consumption (Current)   | 24 VDC  | 1 W DC (42 mA), 0.5 W DC (21 mA) |  |          |  |
|  |                               | 12 VDC  | 1 W DC (83 mA), 0.5 W DC (42 mA) |  |          |  |

- VQC
- SQ
- VQ0
- VQ4
- VQ5
- VQZ
- VQD

Note 1) Use dry air to prevent condensation at low temperatures.  
 Note 2) **Impact resistance:** No malfunction resulted from the impact test using a drop impact tester. The test was performed one time each in the axial and right angle directions of the main valve and armature, for both energized and de-energized states.  
**Vibration resistance:** No malfunction occurred in a one-sweep test between 45 and 2000Hz. Test was performed in the axial and right angle directions of the main valve and armature for both energized and de-energized states.  
 Note 3) Values in ( ) are for the low wattage (0.5 W) specification.  
 Note 4) Metal seal type only.  
 Note 5) Only for VQC1000/2000.



### Manifold Specifications

| Series  | Base model  | Connection type   | Piping specifications  |  | Applicable stations <sup>Note 2)</sup>   | Applicable solenoid valves | 5 station weight (g)   |
|---------|-------------|---|------------------------|--|--|----------------------------|--|
|         |             |   | Port direction         | Port size <sup>Note 1)</sup>   |  |                            |  |
| VQC1000 | VV5QC11-□□□ | <ul style="list-style-type: none"> <li>■ F Kit: D-sub connector</li> <li>■ P Kit: Flat cable</li> <li>■ T Kit: Terminal block box</li> <li>■ S Kit: Serial transmission</li> <li>■ L Kit: Lead wire</li> <li>■ M Kit: Multiple connector</li> </ul> | Side                   | C8 (For ø8)<br>Options<br>Direct outlet with built-in silencer<br>C3 (For ø3.2)<br>C4 (For ø4)<br>C6 (For ø6)<br>M5 (M5 threads)           | (F, L, M and P kits)<br>1 to 12 stations<br>T kit<br>1 to 10 stations<br>S kit<br>1 to 8 stations: EX500<br>1 to 12 stations: EX250<br>1 to 8 stations: EX126        | VQC1□00-5<br>VQC1□01-5     | 628 (Single)<br>759 (Double, 3P)                                     |
| VQC2000 | VV5QC21-□□□ |   | Side                   | C10 (For ø10)<br>Options<br>Direct outlet with built-in silencer<br>Branch type C12 (for ø12)<br>C4 (For ø4)<br>C6 (For ø6)<br>C8 (For ø8) | 1 to 8 stations: EX500<br>1 to 12 stations: EX250<br>1 to 8 stations: EX126  | VQC2□00-5<br>VQC2□01-5     | 1051 (Single)<br>1144 (Double, 3P)                                   |
| VQC4000 | VV5QC41-□□□ |   | Side<br><br><br>Bottom | C8 (For ø8)<br>C10 (For ø10)<br>C12 (For ø12)<br>Rc 1/4<br>Rc 3/8<br><br>Rc 1/4  | (F, L, M and P kits)<br>1 to 12 stations<br>T kit<br>1 to 10 stations<br>S kit<br>1 to 12 stations: EX240, EX250<br>1 to 8 stations: EX500<br>1 to 8 stations: EX126 | VQC4□00-5<br>VQC4□01-5     | 4150<br>• S kit (without unit)<br>• Solenoid weight is not included. |

Note 1) One-touch fittings in inch sizes are also available.  
 Note 2) An optional specification for special wiring is available to increase the maximum number of stations.



# Series VQC

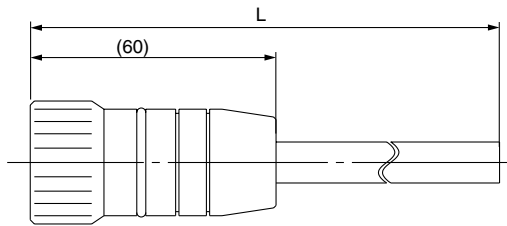
## Manifold Option

### ■ Circular connector/Cable assembly (26 pins)

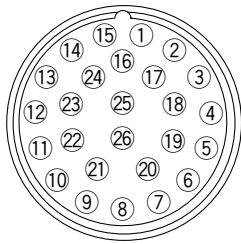
#### AXT100 – MC26 – □

##### Lead Wire Length

| Part no.        | L dimension |
|-----------------|-------------|
| AXT100-MC26-015 | 1.5 m       |
| AXT100-MC26-030 | 3 m         |
| AXT100-MC26-050 | 5 m         |



Plug terminal no.  
(arrangement as seen from lead wire side)



### Circular Connector Cable Assembly Terminal No.

| Terminal no. | Lead wire color | Dot marking |
|--------------|-----------------|-------------|
| ①            | Black           | None        |
| ②            | Brown           | None        |
| ③            | Red             | None        |
| ④            | Orange          | None        |
| ⑤            | Yellow          | None        |
| ⑥            | Pink            | None        |
| ⑦            | Blue            | None        |
| ⑧            | Purple          | White       |
| ⑨            | Gray            | Black       |
| ⑩            | White           | Black       |
| ⑪            | White           | Red         |
| ⑫            | Yellow          | Red         |
| ⑬            | Orange          | Red         |
| ⑭            | Yellow          | Black       |
| ⑮            | Pink            | Black       |
| ⑯            | Blue            | White       |
| ⑰            | Purple          | None        |
| ⑱            | Gray            | None        |
| ⑲            | Orange          | Black       |
| ⑳            | Red             | White       |
| ㉑            | Brown           | White       |
| ㉒            | Pink            | Red         |
| ㉓            | Gray            | Red         |
| ㉔            | Black           | White       |
| ㉕            | White           | None        |

Note) Terminal no. ㉖ is connected to ㉕ inside the connector.

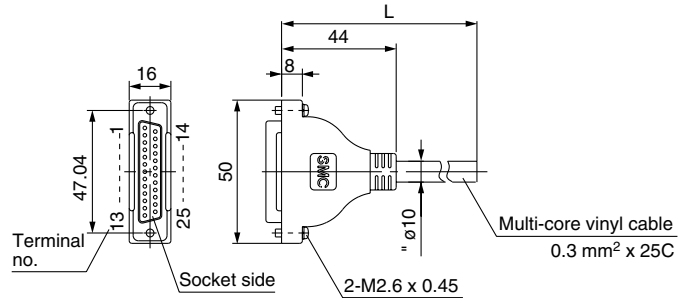
### ■ D-sub connector/Cable assembly (25 pins)

#### AXT100 – DS25 – □

##### Lead Wire Length

| Part no.        | L dimension |
|-----------------|-------------|
| AXT100-DS25-015 | 1.5 m       |
| AXT100-DS25-030 | 3 m         |
| AXT100-DS25-050 | 5 m         |

When a commercially available connector is required, use a 25 pin female connector conforming to MIL-C24308.



### D-sub Connector Cable Assembly Terminal No.

| Terminal no. | Lead wire color | Dot marking |
|--------------|-----------------|-------------|
| ①            | Black           | None        |
| ②            | Brown           | None        |
| ③            | Red             | None        |
| ④            | Orange          | None        |
| ⑤            | Yellow          | None        |
| ⑥            | Pink            | None        |
| ⑦            | Blue            | None        |
| ⑧            | Purple          | White       |
| ⑨            | Gray            | Black       |
| ⑩            | White           | Black       |
| ⑪            | White           | Red         |
| ⑫            | Yellow          | Red         |
| ⑬            | Orange          | Red         |
| ⑭            | Yellow          | Black       |
| ⑮            | Pink            | Black       |
| ⑯            | Blue            | White       |
| ⑰            | Purple          | None        |
| ⑱            | Gray            | None        |
| ⑲            | Orange          | Black       |
| ⑳            | Red             | White       |
| ㉑            | Brown           | White       |
| ㉒            | Pink            | Red         |
| ㉓            | Gray            | Red         |
| ㉔            | Black           | White       |
| ㉕            | White           | None        |

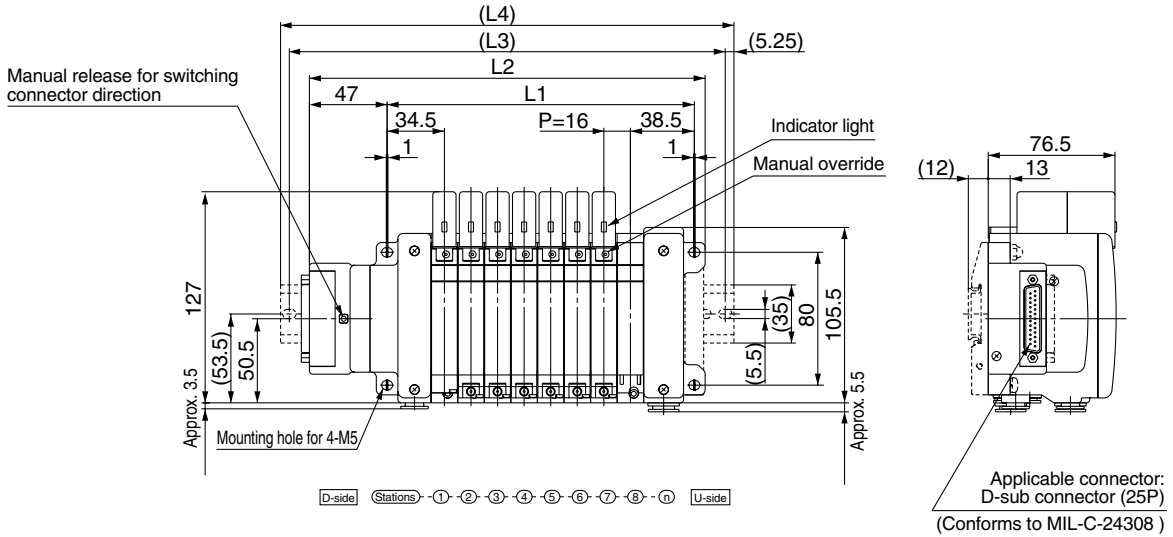
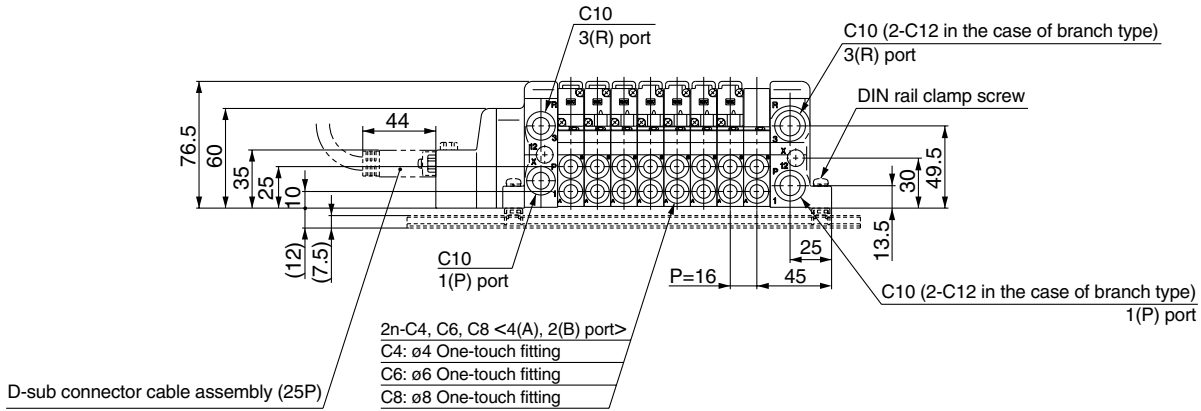
### Circular Connector, D-sub Connector Cable Assembly Electric Characteristics

| Item                              | Characteristics |
|-----------------------------------|-----------------|
| Conductor resistance W/km, 20°C   | 65 or less      |
| Withstand voltage VAC, 1 min.     | 1000            |
| Insulation resistance, M/km, 20°C | 5 or less       |

Note) The minimum inside bending radius for each cable is 20 mm.

**F** VQC1000/2000/4000  
Kit (D-sub connector) IP40 compliant

VV5QC21



Formulas  
 $L1 = 16n + 57$  (Maximum 24 single wiring stations)  
 $L2 = 16n + 110.5$

| L  | n: Stations |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|    | 1           | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    |
| L1 | 73          | 89    | 105   | 121   | 137   | 153   | 169   | 185   | 201   | 217   | 233   | 249   | 265   | 281   | 297   | 313   | 329   | 345   | 361   | 377   | 393   | 409   | 425   | 441   |
| L2 | 126.5       | 142.5 | 158.5 | 174.5 | 190.5 | 206.5 | 222.5 | 238.5 | 254.5 | 270.5 | 286.5 | 302.5 | 318.5 | 334.5 | 350.5 | 366.5 | 382.5 | 398.5 | 414.5 | 430.5 | 446.5 | 462.5 | 478.5 | 494.5 |
| L3 | 150         | 162.5 | 187.5 | 200   | 212.5 | 237.5 | 250   | 262.5 | 275   | 300   | 312.5 | 325   | 350   | 362.5 | 375   | 387.5 | 412.5 | 425   | 437.5 | 450   | 475   | 487.5 | 500   | 525   |
| L4 | 160.5       | 173   | 198   | 210.5 | 223   | 248   | 260.5 | 273   | 285.5 | 310.5 | 323   | 335.5 | 360.5 | 373   | 385.5 | 398   | 423   | 435.5 | 448   | 460.5 | 485.5 | 498   | 510.5 | 535.5 |

\* With signal cut block, L4 is obtained by adding approximately 30 mm to L2.