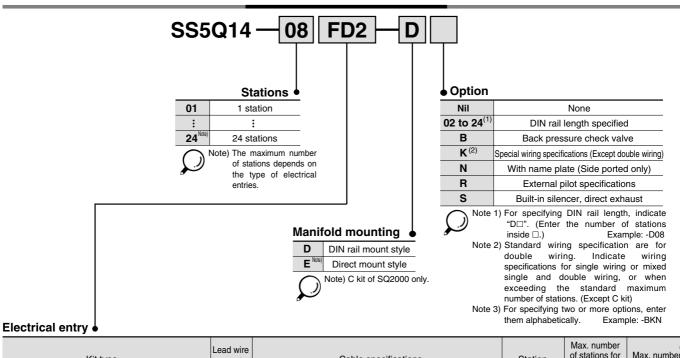


Series SQ1000 **Plug Lead Unit**

How to Order Manifold



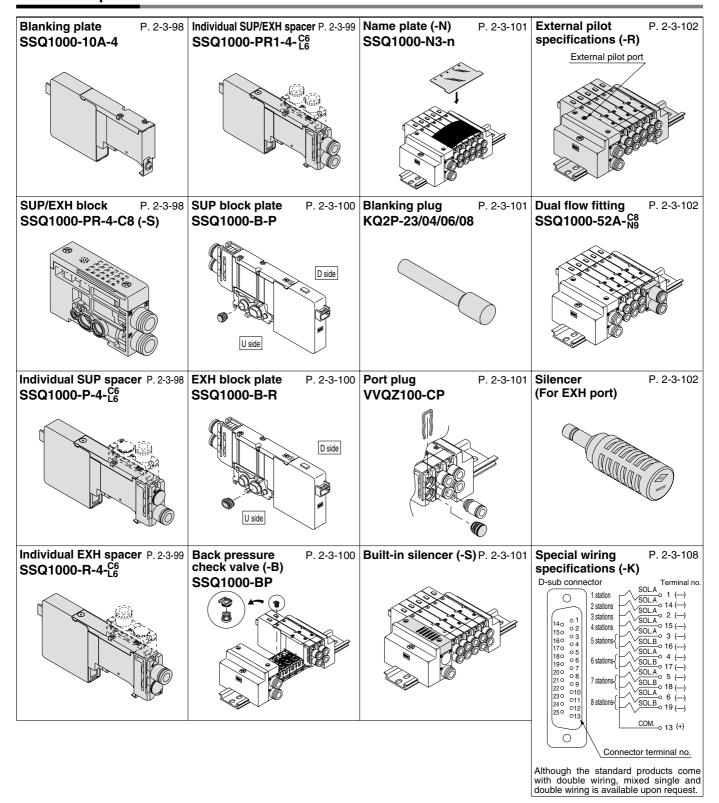
| Electrical entry • | | | | | | |
|---|-----|------------------------------|--|------------------|---|--------------------------|
| Kit type | | Lead wire connector location | Cable specifications | Station | Max. number of stations for special wiring specifications | Max. number of solenoids |
| F kit U side | FD0 | | D-sub connector (25P) kit, without cable | | | |
| | FD1 | D side | D-sub connector (25P) kit, with 1.5 m cable | 1 to 12 stations | 24 stations | 24 |
| D-sub Dside | FD2 | Diside | D-sub connector (25P) kit, with 3.0 m cable | 1 to 12 stations | 24 Stations | 24 |
| Connector kit | FD3 | | D-sub connector (25P) kit, with 5.0 m cable | | | |
| P kit | PD0 | | Flat ribbon cable (26P) kit, without cable | | | |
| | PD1 | (1) | Flat ribbon cable (26P) kit, with 1.5 m cable | 1 1- 10 -1-1 | 04 -4-4: | 24 |
| | PD2 | D side | Flat ribbon cable (26P) kit, with 3.0 m cable | 1 to 12 stations | 24 stations | 24 |
| (26P) | PD3 | | Flat ribbon cable (26P) kit, with 5.0 m cable | | | |
| Flat ribbon cable connector kit (26P) | PDC |] | Flat ribbon cable (20P) kit, without cable | 1 to 9 stations | 18 stations | 18 |
| Flat ribbon cable (20P) (PC Wiring System compatible) | JD0 | D side | Flat ribbon cable (20P) PC Wiring System compatible | 1 to 8 stations | 16 stations | 16 |
| C kit | С | _ | Connector kit | 1 to 24 stations | _ | _ |
| Connector kit | | | | | | |

Note 1) Separately order the 20P type cable assembly for the P kit.

Note 2) The maximum number of stations should not be more than the maximum number of solenoids. (The number of solenoids are counted as: 1 for single solenoids and 2 for type 3P and 4P double solenoids.)

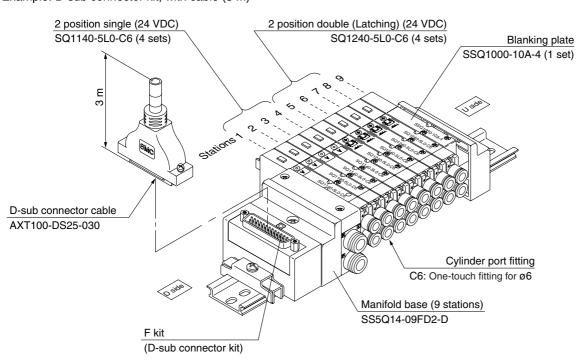
Series SQ1000

Manifold Option



How to Order Manifold Assembly (Example)

Example: D-sub connector kit, with cable (3 m)



SS5Q14-09FD2-D 1 set (F kit 9 station manifold base)

* SQ1140-5L0-C6 4 sets (2 position single)

* SQ1240-5L0-C6 4 sets (2 position double [latching])

* SSQ1000-10A-4 1 set (Blanking plate)

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

Add the valve and option part numbers in order starting from the first station on the D side. When entry of part numbers becomes complicated, indicate on the manifold specification sheet.

VQC

SQ

VQ0

VQ4 VQ5

V07

VQZ

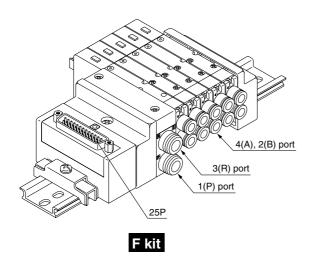
Manifold Specifications

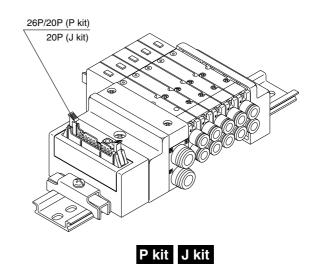
| Base model | Porting specifications Port size (1) | | | Applicable | Type of connection | | (3) Applicable | 5 station | 1 station |
|--|---------------------------------------|--------------------------------------|-------------------------------|--|--------------------------|-----------------|-------------------|---------------|---------------|
| base model | 1(P), 3(R) | Port location | 4(A), 2(B) Port size | solenoid valve | Type of confidential | | stations | weight (g) | weight (g) |
| | C8 | 0:1- | C3 (For ø3.2) C4 (For ø4) | | F kit: D-sub connector | | 1 to 12 stations | 420 | 20 |
| | (For ø8) | Side | C6 (For ø6) M5 (M5 thread) | | P kit: Flat ribbon cable | 26P | 1 to 12 stations | 420 | 20 |
| SS5Q14- | Option | | ivis (ivis triread) | SQ1□40 | | 20P | 1 to 9 stations | | |
| 333414 | Built-in silencer, | (2) L3 (For ø3.2) Top L4 (For ø4) | SQ1□41 | J kit: Flat ribbon cable PC Wiring System comp | oatible | 1 to 8 stations | 420 | 20 | |
| direct exhaust/ L6 (For ø6) L5 (M5 thread) | | | C kit: Connector kit | | 1 to 12 stations | 460 | 35 | | |

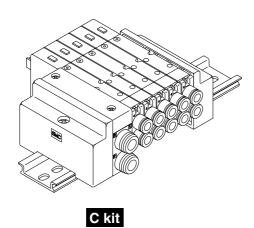
Note 1) One-touch fittings in inch sizes are also available. For details, refer to page 2-3-110. Note 2) Can be changed to side ported configuration.

Note 3) An optional specification for special wiring is available to increase the maximum number of stations. Refer to page 2-3-108 for details.

Note 4) Except valves. For valve weight, refer to page 2-3-104.







VQC

SQ

VQ0

VQ4

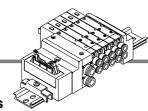
VQ5

VQZ

Series SQ1000



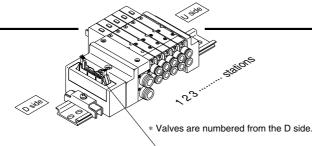
Kit (PC wiring system compatible flat ribbon cable kit)



- PC Wiring System compatible.
- Using connector for flat ribbon cable (20P) conforming to MIL standard permits the use of connectors put on the market and gives a wide interchangeability.
- Top or side entry for the connector can be changed freely, allowing later changes according to the mounting space.

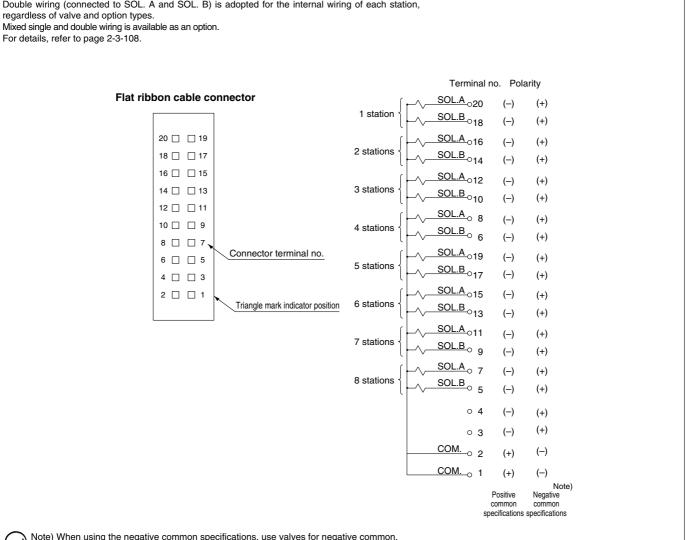
Manifold Specifications

| | F | Maximum | | | |
|--------|-----------|------------|----------------|---------------------------------|--|
| Series | Port | Port | size | number of | |
| | location | 1(P), 3(R) | 4(A), 2(B) | stations | |
| SQ1000 | Side, Top | C8 | C3, C4, C6, M5 | 8 stations (16 as an option) | |

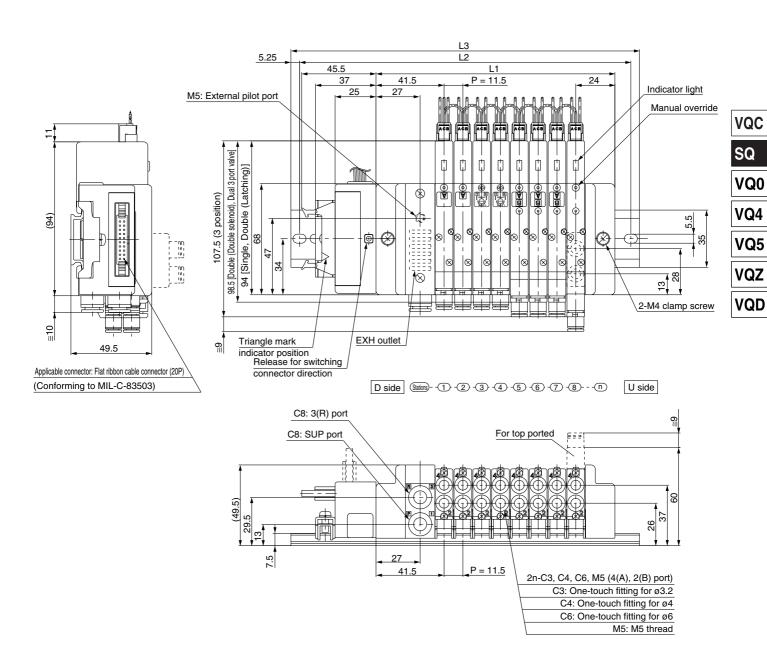


Electrical wiring specifications

Double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station,



Note) When using the negative common specifications, use valves for negative common. For details about the PC Wiring System, refer to catalog CAT.ES02-20 separately.



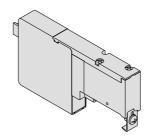
| Dimen | Dimensions Formula: L1 = 11.5n + 54 n: Stations (Maximum 16 stations) | | | | | | | | | | | | | | | |
|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| L1 | 65.5 | 77 | 88.5 | 100 | 111.5 | 123 | 134.5 | 146 | 157.5 | 169 | 180.5 | 192 | 203.5 | 215 | 226.5 | 238 |
| L2 | 125 | 137.5 | 150 | 162.5 | 175 | 187.5 | 200 | 212.5 | 225 | 237.5 | 237.5 | 250 | 262.5 | 275 | 287.5 | 300 |
| L3 | 135.5 | 148 | 160.5 | 173 | 185.5 | 198 | 210.5 | 223 | 235.5 | 248 | 248 | 260.5 | 273 | 285.5 | 298 | 310.5 |

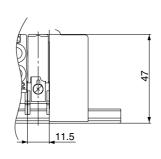
Manifold Option Parts for SQ1000

Blanking plate

SSQ1000-10A-4

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







TTT

SUP/EXH block

SSQ1000-PR-4-C8-□

Nil Standard
R External pilot specifications
S Built-in silencer



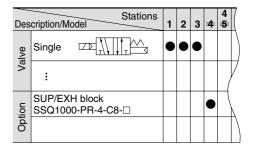
Note) When specifying both options, indicate "-RS".

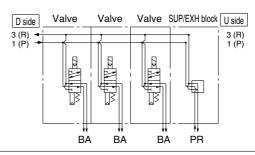
 Specify the spacer mounting position on the manifold specification sheet.

For standard type manifolds, the SUP/EXH block is mounted on the D side.

It is added to the manifold to increase SUP/EXH capacity.

- * The number of SUP/EXH blocks that can be added is limited to two sets, one between manifold stations and another on the U side of the manifold, due to the length of the lead wire.
- * SUP/EXH blocks are not included in the number of manifold stations.





SSQ1000-P-4- C6 Port location

C6 Side ported
L6 Top ported

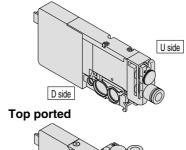
This is used as a supply port for different pressures when using different pressures in the same manifold (for one station). Both sides of the station which is used with supply pressure from the individual SUP spacer are shut off. (Refer to application example.)

 Specify the spacer mounting position and SUP passage shut off positions on the manifold specification sheet. Two shut off positions are required per unit.

(Two pieces of SUP block plate that shut off the supply pressure are included with the individual SUP spacer, therefore, it is not necessary to order them separately.)

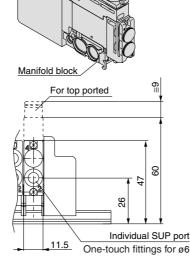
- Electrical wiring is also connected to the manifold station with the individual EXH spacer.
- * By changing the fitting shown in the drawing and the block plates, the spacer's specification can be changed later (from the individual SUP spacer to the individual EXH spacer).
- * The number of spacers is not limited when ordered with the manifold. However, when adding individual for F, P, and J kits, it is limited to two units, one between manifold stations and another on the U side, due to the length of the lead wire.
- * Model no with manifold block: SSQ1000-P-4- $_{
 m L6}^{
 m C6}$ - $_{
 m L6}^{
 m M}$

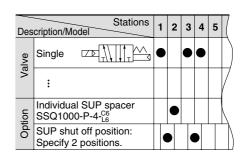
Side ported



D side

U side





SUP block plate (Ordering not required) (Ordering not required)

D side Valve spacer Valve Valve Uside 3 (R) 1 (P)

BA P BA BA BA



Individual EXH spacer

SSQ1000-R-4- C6

◆Port location

C6 Side ported L6 Top ported

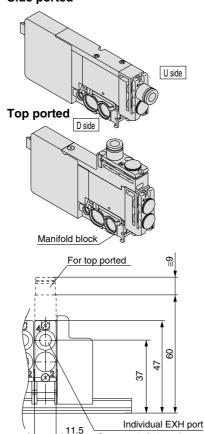
This is used to exhaust an individual valve when the exhaust from a valve interferes with other stations in the circuit (used for one station). Both sides of the station which is to be individually exhausted are shut off. (Refer to application example.)

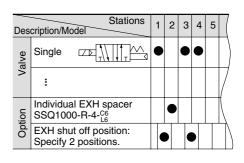
* Specify the spacer mounting position and EXH passage shut off positions on the manifold specification sheet. Two shut off positions are required per unit.

(Two pieces of EXH block plate that shut off the exhaust are included with the individual EXH spacer, therefore, it is not necessary to order them separately.)

- * Electrical wiring is also connected to the manifold station with the individual EXH spacer.
- * By changing the fitting shown in the drawing and the block plates, the spacer's specification can be changed later (from the individual EXH spacer to the individual SUP spacer).
- * The number of spacers is not limited when ordered with the manifold. However, when adding individual for F, P, and J kits, it is limited to two units, one between manifold stations and another on the U side, due to the length of the lead wire.
- * Model no. with manifold block: SSQ1000-R-4-^{C6}-M

Side ported





EXH block plate EXH block plate (Ordering not required) (Ordering not required) Individual EXF D side Valve spacer Valve Valve U side 3 (R) 1 (P) ВА R ВА ВА

VQC

SQ

VQ0 VQ4

....

VQ5

VQZ

VQD

Individual SUP/EXH spacer

SSQ1000-PR1-4- C6

Port location

C6 Side ported
L6 Top ported

This has both functions of the individual SUP and EXH spacers above.

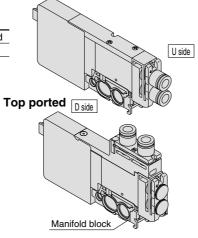
(Refer to application example.)

* Specify the spacer mounting position and SUP and EXH passage shut off positions on the manifold specification sheet. Two shut off positions each for SUP and EXH are required per unit.

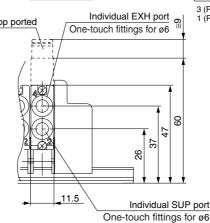
(Two pieces each of block plate that shut off the SUP and EXH passages are included with the individual SUP/EXH spacer.)

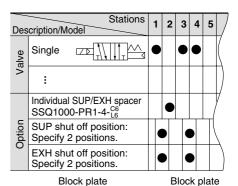
- * Electrical wiring is also connected to the manifold station with the individual EXH spacer.
- * By changing the fitting shown in the drawing and the block plates, the spacer's specification For top ported can be changed later.
- * The number of spacers is not limited when ordered with the manifold. However, when adding individual for F, P, and J kits, it is limited to two units, one between manifold stations and another on the U side, due to the length of the lead wire.
- * Model no. with manifold block: SSQ1000-PR1-4- $^{C6}_{1.6}$ - \underline{M}

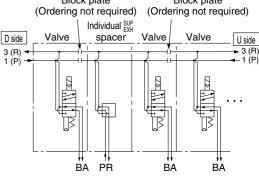
Side ported



One-touch fittings for ø6









Manifold Option Parts for SQ1000

SUP block plate

SSQ1000-B-P

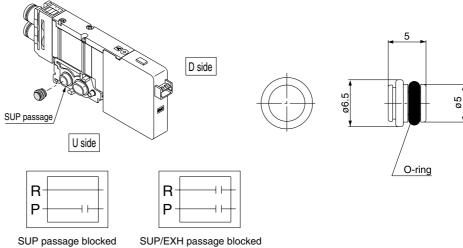
When supplying two different pressures, high and low, to one manifold, this is used between stations with different pressures. Also, it is used with an individual SUP spacer to shut off the air supply.

* Specify the station position on the manifold specification sheet.

<Shut off label>

When a SUP passage is shut off with a SUP block plate, a label is attached for external confirmation of the shut off position (one label each).

* Shut off labels are applied when SUP block plates are ordered with manifolds.



EXH block plate

SSQ1000-B-R

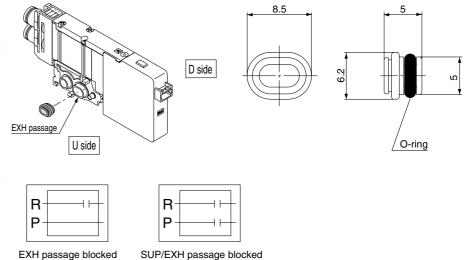
When the exhaust from a valve interferes with other stations in the circuit, this is used between stations to separate exhausts. Also, it is used with an individual EXH spacer to shut off the exhaust of individual valves.

* Specify the station position on the manifold specification sheet.

<Shut off label>

When an EXH passage is shut off with an EXH block plate, a label is attached for external confirmation of the shut off position (one label each).

* Shut off labels are applied when EXH block plates are ordered with manifolds.

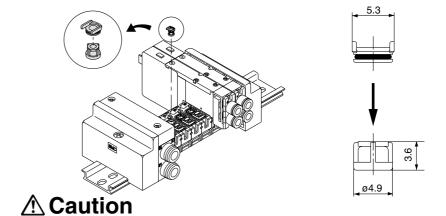


Back pressure check valve [-B]

SSQ1000-BP

This prevents cylinder malfunction caused by the exhaust from other valves.It is inserted into the R (EXH) port of the valve that is affected. It is especially effective when using single acting cylinders or exhaust center type solenoid valves.

- * When installing back pressure check valves only on the stations required, enter the part number and specify the station positions on a manifold specification sheet.
- * When installing back pressure check valves on all of the stations, indicate "-B" at the end of the manifold part number.



- Although the back pressure check valve is an assembly part with a check valve mechanism, a small amount of air leakage is allowed. Therefore, take care not to restrict the exhaust air from the exhaust port.
- The effective area of valves is about 20% less when the back pressure check valve is installed.
- 3. Since 4 port specification valves (5 (R1) and 3 (R2) are common) are used, back pressure cannot be prevented with dual 3 port valves.

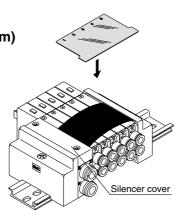


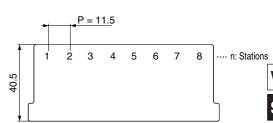
Name plate [-N]

SSQ1000-N3-Stations (1 to maximum)

This is a clear resin plate for applying solenoid valve function description labels, etc. To install, bend the plate slightly as shown and insert into the slots on the end plate side. Also, the plate is difficult to bend for manifolds with only a few stations, therefore, remove the silencer cover to install it.

* When ordering with manifolds, add "-N" at the end of the manifold number.





VQC

SQ

VQ0

VQ4

VQ5

Blanking plug (For One-touch fitting)

23 .04 .06 .08

This is inserted into cylinder ports and SUP and EXH ports that are not used.

Purchasing order is available in units of 10 pieces.

A A

Dimensions

| Applicable fittings size (ød) | Model | Α | L | D |
|-------------------------------|---------|------|------|-----|
| 3.2 | KQ2P-23 | 16 | 31.5 | 3.2 |
| 4 | KQ2P-04 | 16 | 32 | 6 |
| 6 | KQ2P-06 | 18 | 35 | 8 |
| 8 | KQ2P-08 | 20.5 | 39 | 10 |

VQZ

VQD

Port plug

VVQZ100-CP

This is used to close the cylinder ports when changing a 5 port valve to a 3 port valve.

* Add "A" or "B" at the end of the valve part number when ordering with valves.

Example) SQ1141-5L-C6-A (N.O. specifications)

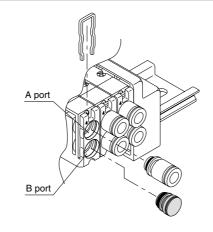
4 (A) port plug

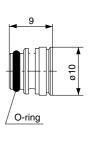
Example) SQ1141-5L-C6-B (N.C. specifications)

2 (B) port plug

Example) SQ1141-5L-C6-B-M

(B port plug with manifold block)





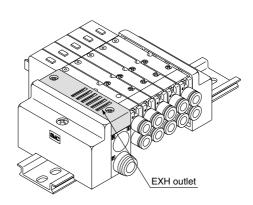
Direct EXH outlet, built-in silencer [-S]

The EXH outlet is placed on the top side of the manifold end plate. The built-in silencer provides highly effective noise reduction. (Noise reduction of 30 dB)



Note) Note that when excessive drainage occurs in the air supply, the drainage will be released along with the exhaust.

- * Add "-S" at the end of the manifold part number when ordering with manifolds.
- * For precautions on handling and how to replace elements, refer to page 2-3-5.





Manifold Option Parts for SQ1000

External pilot specifications [-R]

This can be used when the air pressure is 0.1 to 0.2 MPa lower than the minimum operating pressure of the solenoid valves or used for vacuum specifications.

Add "R" to the part numbers of manifolds and valves to indicate the external pilot specification.

An M5 port will be installed on the top side of the manifold's SUP/EXH block.

How to order valves (Example)

SQ1140 R -5L-C6

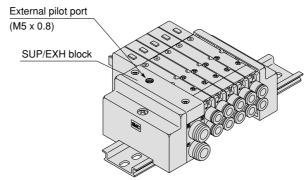
External pilot specifications

How to order manifold (Example)

* Indicate "R" for an option.

SS5Q14-08FD1-DR

External pilot specifications



Note 1) Not applicable for dual 3 port valves.

Note 2) Indicate "RY" for low wattage types.

Note 3) Valves with the external pilot specifications have a pilot EXH with individual exhaust specifications and EXH can be pressurized. However, the pressure supplied from EXH should be 0.4 MPa or lower.

Dual flow fitting

SSQ1000-52A-C8

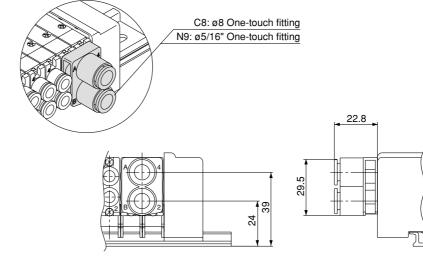
→Port size

| C8 | ø8 |
|----|--------|
| N9 | ø5/16" |

To drive a large bore cylinder, two valve stations are operated simultaneously to double the air flow. This fitting is used on the cylinder ports in this situation. Available sizes are Ø8 and Ø5/16" One-touch fitting.

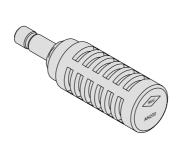
* When ordering with valves, specify the valve part number without One-touch fitting and list the dual flow fitting part number.

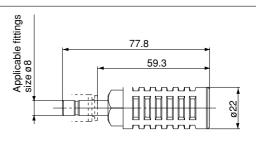
Example) Valve part number (without One-touch fitting part number)



Silencer (For EXH port)

This is inserted into the centralized type EXH port (One-touch fitting).





Specifications

| Series | Model | Effective area (mm²) (Cv factor) | Noise reduction (dB) |
|--------|-----------|-------------------------------------|----------------------|
| SQ1000 | AN200-KM8 | 20 (1.1) | 30 |





Manifold Option Parts for SQ1000/SQ2000

Special Wiring Specifications

In the internal wiring of F kit, P kit, and J kit, double wiring (connected to SOL. A and SOL. B) is adopted for each station regardless of the valve and option types. Mixed single and double wiring is available as an option.

1. How to order

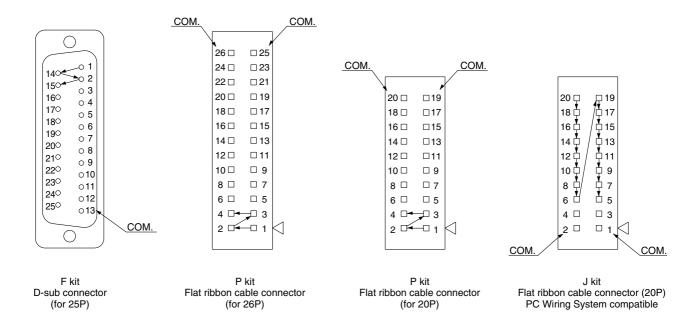
Indicate option symbol "-K" in the manifold part number and be sure to specify station positions for single or double wiring on the manifold specification sheet.

Example) **SS5Q14-09 FD0 - DKS**

Others, option symbols: to be indicated alphabetically.

2. Wiring specifications

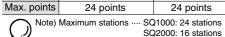
Connector terminal numbers are connected from solenoid station 1 on the A side in the order indicated by the arrows without skipping any terminal numbers.



3. Maximum stations

The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. Determine the number of stations so that the total number of solenoids is no more than the maximum points in the table below.

| Kit | F kit (D-sub connector) | P kit (Flat ribbon cable connector) | | J kit Flat ribbon cable PC Wiring System compatible |
|-------------|----------------------------|--|------------|---|
| Туре | FD□ 25P | PD□ 26P | PDC 20P | JD0 20P |
| Max. points | 24 points | 24 points | 18 points | 16 points |



Special DIN Rail Length (DIN rail mounting (-D) only)

The standard DIN rail provided is approximately 30 mm longer than the overall length of the manifold with a specified number of stations. The following options are also available.

DIN rail length longer than the standard type (for stations to be added later, etc.)

In the manifold part number, specify "-D" for the manifold mounting symbol and add the number of required stations after the symbol.

Example) SS5Q14- 08FD0 - D09BNK

8 station manifold

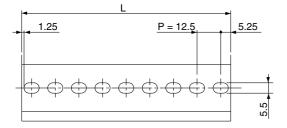
Option symbols (alphabetically)

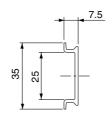
DIN rail for 9 stations

Ordering DIN rail only

DIN rail part number

AXT100- DR - n Note) For "n", enter a number from the "No." line in the table below. For L dimension, refer to the dimensions of each kit.



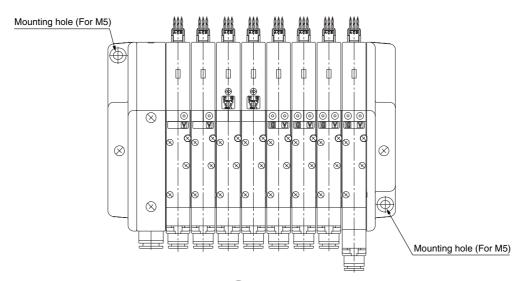


L Dimension L = 12.5 x n + 10.5

| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| L dimension | 23 | 35.5 | 48 | 60.5 | 73 | 85.5 | 98 | 110.5 | 123 | 135.5 |
| | | | | | | | | | | |
| No. | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| L dimension | 148 | 160.5 | 173 | 185.5 | 198 | 210.5 | 223 | 235.5 | 248 | 260.5 |
| | | | | | | | | | | |
| No. | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| L dimension | 273 | 285.5 | 298 | 310.5 | 323 | 335.5 | 348 | 360.5 | 373 | 385.5 |
| | | | | | | | | | | |
| No. | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| L dimension | 398 | 410.5 | 423 | 435.5 | 448 | 460.5 | 473 | 485.5 | 498 | 510.5 |

Direct Mounting Style (-E) (SQ2000 C kit only)

Manifold is mounted by using mounting holes of both sides of the manifold. DIN rail is not sticking out of the edge of end plate.



VQC SQ

VQ0

VQ4

VQ5

VQZ

Manifold Option for SQ1000/SQ2000

Negative Common Specifications

The following valve part numbers are for negative COM specifications. Manifold part numbers are the same as standard.

How to order negative COM valves (Example)

SQ1140 N -5L-C6

Negative common specifications

Inch-size One-touch Fittings

For One-touch fittings in inch sizes, use the following part numbers. Also, the color of the release button is orange.

How to order valves (Example)

SQ1140-5L- N7

Port location

Cylinder port

| Nil | Side ported |
|-----|-------------|
| L | Top ported |

| Symbo | ol | N1 | N3 | N7 | N9 |
|-------------------|--------|--------|--------|--------|----|
| Applicable tubing | ø1/8" | ø5/32" | ø 1/4" | ø5/16" | |
| 4/A) O(D)t | SQ1000 | • | • | • | _ |
| 4(A), 2(B) port | SQ2000 | _ | • | • | • |

How to order manifold (Example)

Add "00T" at the end of the part number.

SS5Q14- 08 FD0-DN - 00T

1 (P), 3 (R) port in inch size SQ1000: Ø5/16" (N9) SQ2000: Ø3/8" (N11)

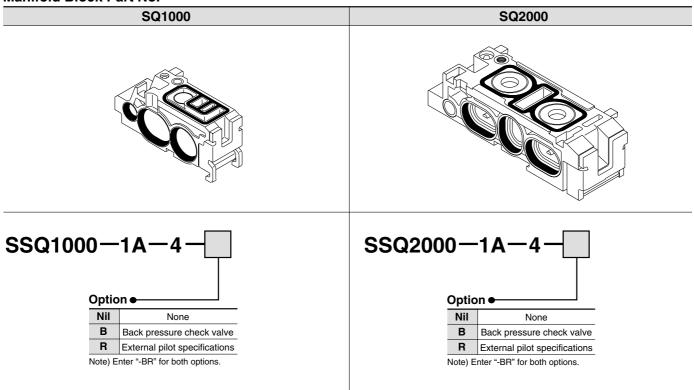
How to Add Manifold Stations for SQ1000/SQ2000

1. How to Add Manifold Stations

What to order

• Valves with manifold block (refer to pages 2-3-71 and 2-3-85) or the manifold blocks shown below. For F kit, P kit, and J kit, also order the lead wire assemblies in the next section.

Manifold Block Part No.



VQC

SQ

VQ0

VQ4

VQ5

VQZ

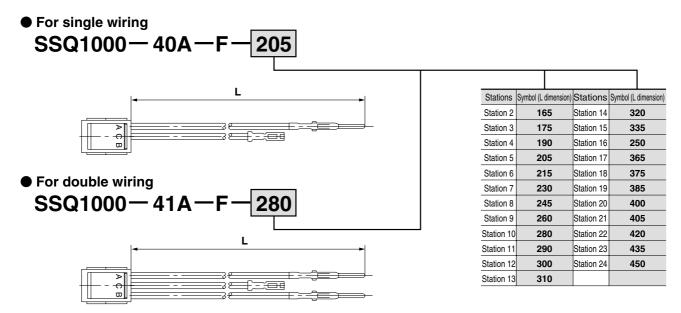
How to Add Manifold Stations for SQ1000/SQ2000

For F kit, P kit, J kit

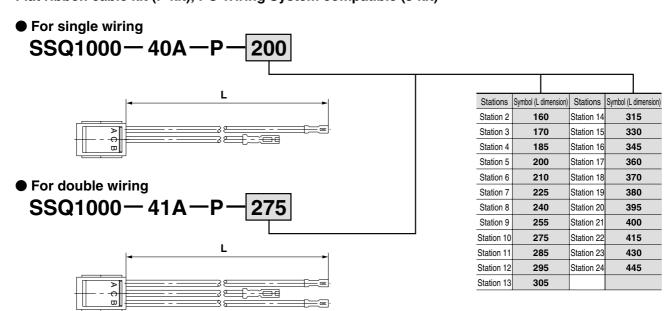
What to order: Lead wire assembly

SQ1000

D-sub connector kit (F kit)



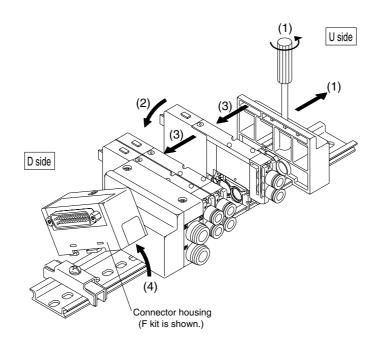
Flat ribbon cable kit (P kit), PC Wiring System compatible (J kit)



How to Add Manifold Stations for SQ1000/SQ2000

Steps for adding stations

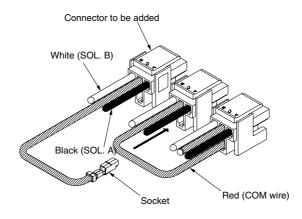
- (1) Loosen the clamp screw on the U side end plate and open the manifold.
- (2) Mount the manifold block or valve with manifold block to be added.
- (3) Press on the end plate to eliminate any space between the manifold blocks and tighten the clamp screw. | (Proper tightening torque: 0.8 to 1.0 N·m)
- (4) In the case of F kit, P kit or J kit, remove the connector housing from the DIN rail and connect the wiring.



2. Connection Method

(1) Connecting common wire

Insert the red lead wire (common wire) of the connector to be added into the adjacent connector as shown in the drawing below. After inserting,



VQC

SQ

VQ0

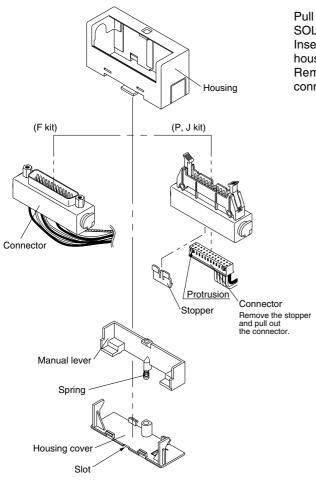
VQ4

VQ5

VQZ

VQD

(2) Pulling out connector



Pull out the connector to connect the lead wires for SOL. A and SOL. B.

Insert a flat head screwdriver into the slot of the housing cover and remove it.

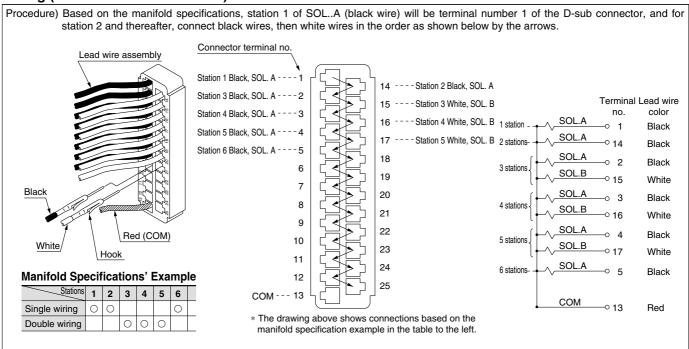
Remove the manual lever and pull out the connector.

F, P, J kit

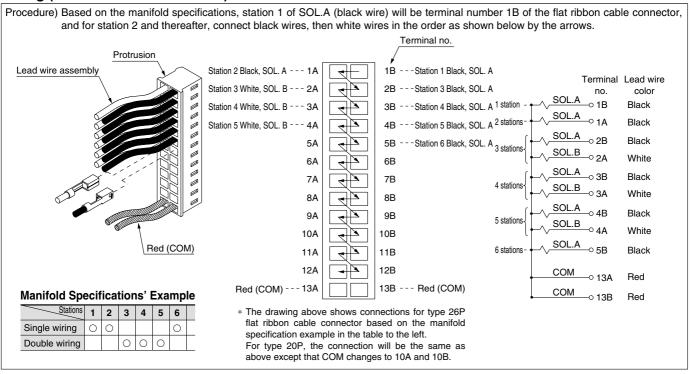
How to Add Manifold Stations for SQ1000/SQ2000

- (3) Connector connection/Connect the black and white lead wire pins to the positions shown below in accordance with each kit.
- - 2. Do not pull the lead wire forcefully when connecting. Also, take care that lead wires do not get caught between manifolds or when remounting the housing.

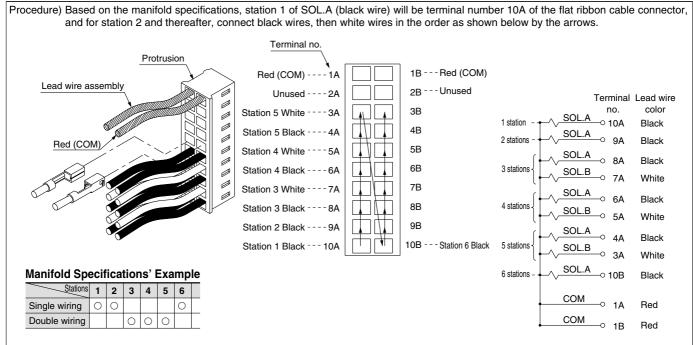
Wiring (F kit: D-sub connector kit)



Wiring (P kit: Flat ribbon cable kit)



Wiring (J kit: Flat ribbon cable, PC Wiring System compatible)



VQC

SQ

VQ0

VQ4

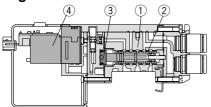
VQ5

VQZ

Construction: Series SQ1000 Plug Lead Type Main Parts and Pilot Valve Assembly

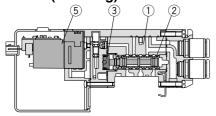
Metal seal type

Single: SQ1140



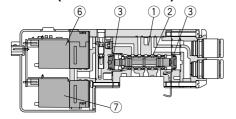


Double (Latching): SQ1240



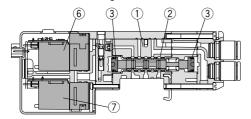


Double (Double solenoid): SQ1240D





3 position: $SQ1\frac{3}{5}$ 40



| SQ1340 | SQ1440 | SQ1540 |
|-----------------------|-----------------------|---------------------------------------|
| (A)(B) 42 | (A)(B) 4.2 | (A) (B) 4 2 |
| | | ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ |
| 5 1 3 (R1) (P)(R2) | 5 1 3 (R1) (P)(R2) | (R1) (P)(R2) |

Component Parts

| No. | Description | Material |
|-----|--------------|------------------------------|
| 1 | Body | Zinc die-casted |
| 2 | Spool/Sleeve | Stainless steel (Metal seal) |
| 2 | Spool | Aluminum (Rubber seal) |
| 3 | Piston | Resin |

Pilot Valve Assembly Note)

| No. | Model | SQ1□4□ | |
|-----|--|--|--|
| 4 | For single | VQ110 ^(K) _(Y) - ⁵ ₆ (N)J1(B) | |
| (5) | For double (Latching) | VQ110L- ⁵ ₆ J2 Negative COM: VQ110N- ⁵ ₆ J2 | |
| (6) | For double (Double solenoid) on A side | VQ110 ^(K) _(Y) - ⁵ ₆ (N)J3(B) | |
| | For 3P, Dual 3 port on A side | | |
| (7) | For double (Double solenoid) on B side | VQ111(K)-5 (N)J4 | |
| | For 3P, Dual 3 port on B side | | |

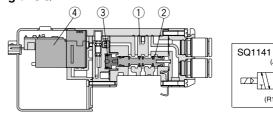


Note) Nil: Standard

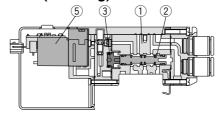
- B: Locking type manual override
- K : High pressure specifications (metal seal only)
- N : Negative common specifications Y : Low wattage specifications

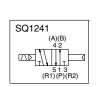
Rubber seal type

Single: SQ1141

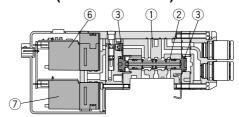


Double (Latching): SQ1241



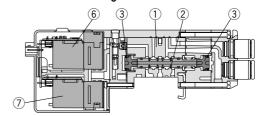


Double (Double solenoid): SQ1241D



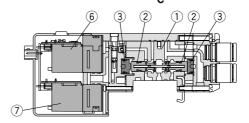


3 position: SQ1³/₄41



| SQ1341 | SQ1441 | SQ1541 |
|----------------------|-----------------------|-----------------------|
| (A)(B) 4.2 | (A)(B) | (A)(B) |
| | | |
| 5 1 3 (R1)(P)(R2) | 5 1 3 (R1) (P)(R2) | 5 1 3 (R1) (P)(R2) |

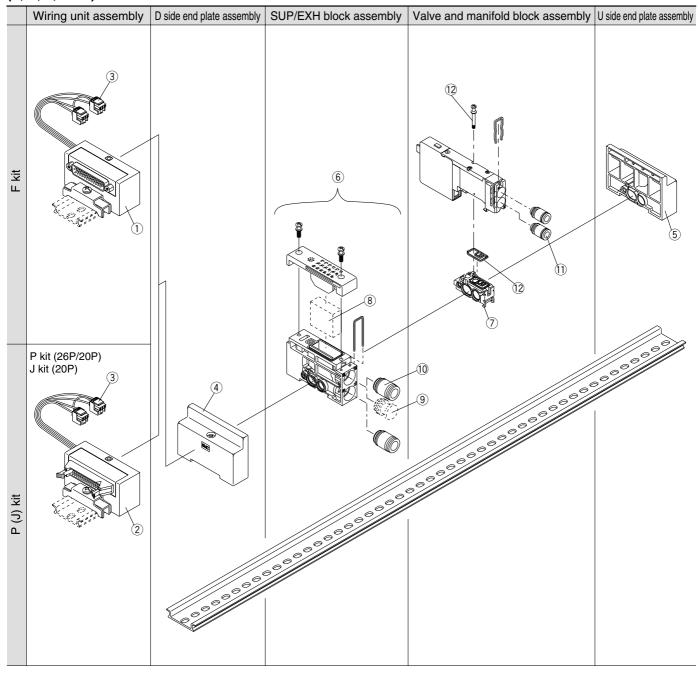
Dual 3 port valve: SQ1 B 41



| SQ1A41 | | SQ1B41 | | SQ1C41 | |
|--------|------|--------|--------------|--------|------|
| 4 | 2 | 4 | 2 | 4 | 2 |
| | | | | | |
| 5 🗀 | 3 | 5 🖵 | ₃ | 5 |] 3 |
| N.C. | N.C. | N.O. | N.O. | N.C. | N.O. |

Exploded View of Manifold: SQ1000 (Plug lead type manifold) SS5Q14

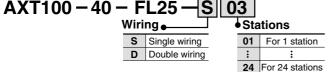
(F, P, J, C kit)



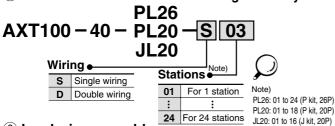
Manifold Spare Parts

Refer to pages 2-3-112 to 2-3-117 of "How to Add Manifold Stations" regarding the mounting of each spare parts.

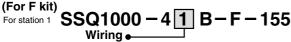
< 1 D-sub connector housing assembly>



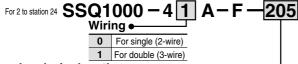
< 2 Flat ribbon cable connector housing assembly>



< 3 Lead wire assembly >



0 For single (2-wire) for double (3-wire)



Lead wire length●

| Stations | L dimension (mm) | Stations | L dimension (mm) | Stations | L dimension (mm) | Stations | L dimension (mm) |
|-----------|---------------------|------------|------------------|------------|------------------|------------|---------------------|
| Station 2 | 165 | Station 8 | 245 | Station 14 | 320 | Station 20 | 400 |
| Station 3 | 175 | Station 9 | 260 | Station 15 | 335 | Station 21 | 405 |
| Station 4 | 190 | Station 10 | 280 | Station 16 | 250 | Station 22 | 420 |
| Station 5 | 205 | Station 11 | 290 | Station 17 | 365 | Station 23 | 435 |
| Station 6 | 215 | Station 12 | 300 | Station 18 | 375 | Station 24 | 450 |
| Station 7 | 230 | Station 13 | 310 | Station 19 | 385 | | |

(For P, J kit)

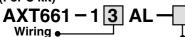
For single (2-wire)

|) 1 | 000 - 4 1 A - P - 200 |) |
|------------|-----------------------|---|
| 0 | For single (2-wire) | |
| 1 | For double (3-wire) | |

Lead wire length •

| Stations | L dimension (mm) | Stations | L dimension (mm) | Stations | L dimension (mm) | Stations | L dimension (mm) |
|-----------|---------------------|------------|------------------|------------|---------------------|------------|---------------------|
| Station 2 | 160 | Station 8 | 240 | Station 14 | 315 | Station 20 | 395 |
| Station 3 | 170 | Station 9 | 255 | Station 15 | 330 | Station 21 | 400 |
| Station 4 | 185 | Station 10 | 275 | Station 16 | 345 | Station 22 | 415 |
| Station 5 | 200 | Station 11 | 285 | Station 17 | 360 | Station 23 | 430 |
| Station 6 | 210 | Station 12 | 295 | Station 18 | 370 | Station 24 | 445 |
| Station 7 | 225 | Station 13 | 305 | Station 19 | 380 | | |

(For C kit)



For double (3-wire) For single (2-wire)

| Leau | wire lengti |
|--------|------------------|
| Symbol | L dimension (mm) |
| Nil | 300 |
| 6 | 600 |
| 10 | 1000 |

1500

2000

2500

3000 5000

15

20

25

30

50

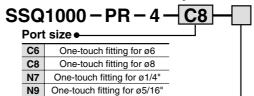
SSQ1000 - 3A - 4

< 4 D side end plate assembly>

< 5 U side end plate assembly>

SSQ1000-2A-4

< 6 SUP/EXH block assembly>



| | Option | 1 • |
|-----|-----------|-----------------------------------|
| | Nil | Common exhaust type |
| | R | External pilot |
| | S | Built-in silencer, direct exhaust |
| (.) | Note) Ent | ter "-RS" for both options. |

VQC

SQ

VQ0

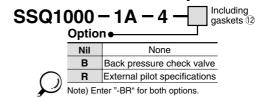
VQ4

VQ5

VQZ

VQD

< 7 Manifold block assembly>



< 8 Element>

SSQ1000 - SE

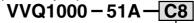
Note) Part number for a 10 piece set of elements. Refer to page 2-3-5 for replacement procedures.

< 9 Port plug>

VVQZ2000 - CP

< 10 Fitting assembly>

(For P, R port)



| Port size ● | | | | | | | |
|--|------------------------------|--|--|--|--|--|--|
| C6 One-touch fitting for ø6 | | | | | | | |
| C8 One-touch fitting for Ø8 | | | | | | | |
| N7 One-touch fitting for ø1/4" | | | | | | | |
| N9 | One-touch fitting for ø5/16" | | | | | | |
| Note) Purchasing order is available in units | | | | | | | |

<11 Fitting assembly>

(For cylinder port)

VQ1000 − 50A **− C6**

| F | Port size ● | | | | | | | |
|---|---|------------------------------|--|--|--|--|--|--|
| | C3 | One-touch fitting for ø3.2 | | | | | | |
| | C4 | One-touch fitting for ø4 | | | | | | |
| | C6 | One-touch fitting for ø6 | | | | | | |
| | М5 | M5 thread | | | | | | |
| | N1 | One-touch fitting for ø1/8" | | | | | | |
| | N3 | One-touch fitting for ø5/32" | | | | | | |
| | N7 | One-touch fitting for ø1/4" | | | | | | |
| N | Note) Purchasing order is available in units of 10 pieces | | | | | | | |

< (12) Gasket and screw assembly>

SQ1000-GS

Note) Part number for 10 pieces each of gaskets and screws.

