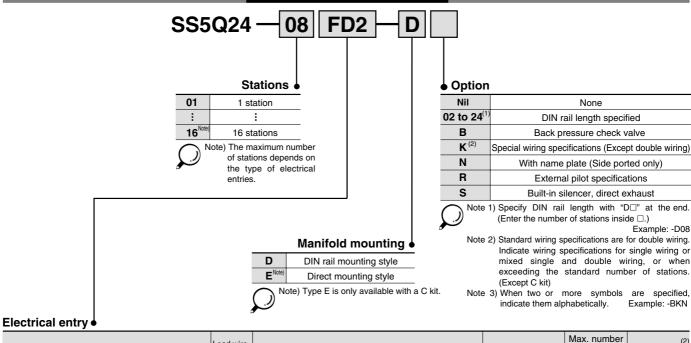


Series SQ2000 **Plug Lead Unit**

How to Order Manifold

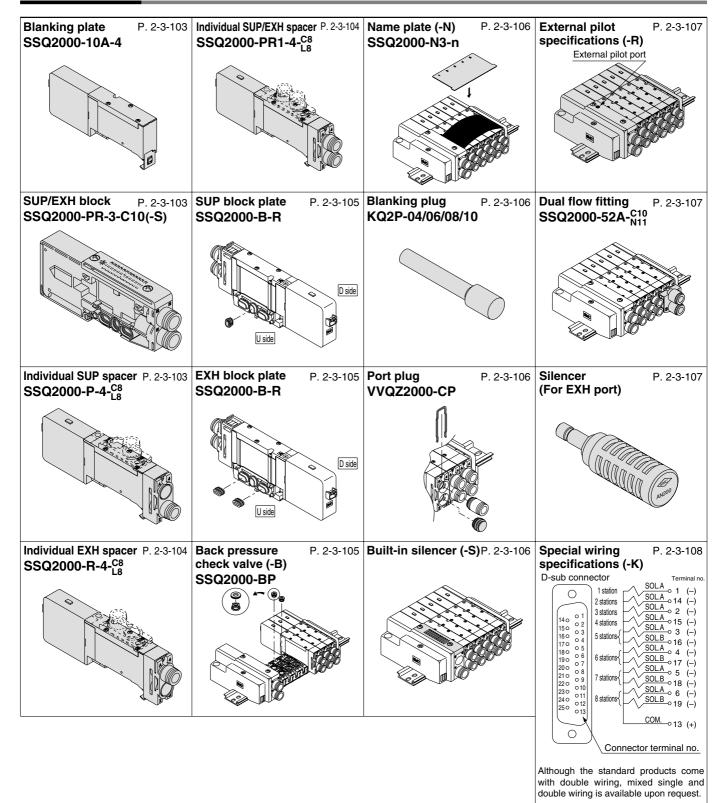


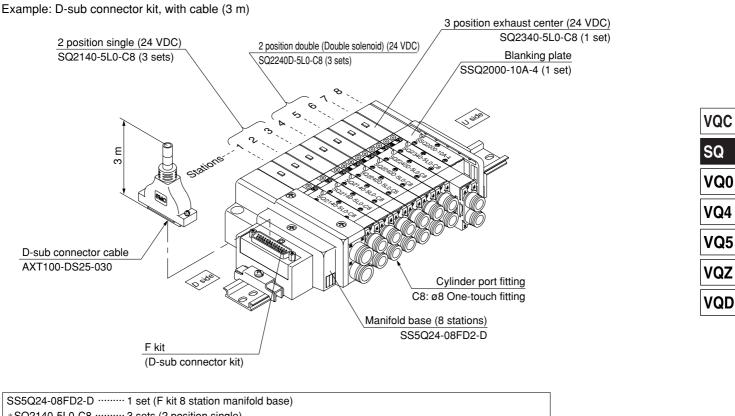
Kit type		Lead wire connector location	Cable specifications	Stations	Max. number of stations for special wiring specifications	(2) Max. number of solenoids
F kit	FD0		D-sub connector (25P) kit, without cable			
	FD1		D-sub connector (25P) kit, with 1.5 m cable	1 to 12 stations	16 stations	24
D side	FD2	D side	D-sub connector (25P) kit, with 3.0 m cable		TO Stations	24
D-sub connector kit	FD3		D-sub connector (25P) kit, with 5.0 m cable			
P kit	PD0		Flat ribbon cable (26P) kit, without cable			
	PD1	D side	Flat ribbon cable (26P) kit, with 1.5 m cable	1 to 12 stations	16 stations	24
	PD2	D side	Flat ribbon cable (26P) kit, with 3.0 m cable		TO Stations	24
(26P)	PD3		Flat ribbon cable (26P) kit, with 5.0 m cable			
Flat ribbon cable connector kit $\begin{pmatrix} 20P \\ 20P \end{pmatrix}$	PDC		Flat ribbon cable (20P) kit, without cable	1 to 9 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 Connector kit		Connector kit	1 to 16 stations	_		
						1

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 SQ2000

Manifold Option





How to Order Manifold Assembly (Example)

SS5Q24-08FD2-D 1 set (F kit 8 station manifold base) *SQ2140-5L0-C8 3 sets (2 position single) *SQ2240D-5L0-C8 3 sets (2 position double [double solenoid]) *SQ2340-5L0-C8 1 set (3 position exhaust center) *SSQ2000-10A-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.

Plug Lead Unit Series SQ2000

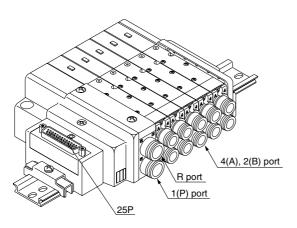
Manifold Specifications

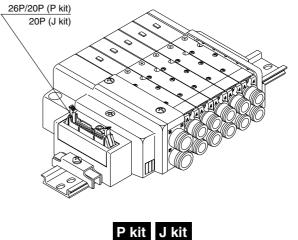
Base model	Porting specifications Port size ⁽¹⁾		Applicable	Applicable solenoid Type of connection		(3) Applicable	(4) 5 station weight	(4) 1 station weight	
Base model	1(P), 3(R)	(A), 2(B)		valve		stations	(g)	(g)	
	C10 C4 (For ø4)			F kit: D-sub connector		1 to 12 stations	580	35	
	(For ø10)	Side	de C6 (For ø6) C8 (For ø8)	SQ2_40	P kit: Flat ribbon cable	26P	1 to 12 stations	580	35
SS5Q24-	Option				20		1 to 9 stations	300	
	Built-in silencer, (2) L4 (For ø4)		SQ2_41	J kit: Flat ribbon cable PC Wiring System compatible		1 to 8 stations	580	35	
	\direct exhaust/	тор	L6 (For ø6) L8 (For ø8)		C kit: Connector kit		1 to 12 stations	620	50

Note 1) One-touch fittings in inch sizes are also available. For details, refer to page 2-3-110.

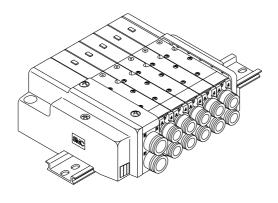
Note 2) Can be changed to side ported configuration.

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 2-3-88.









C kit

VQC

SQ

VQ0

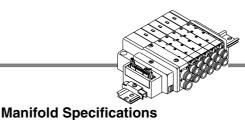
VQ4

VQ5

VQZ

VQD

Series SQ2000



Porting specifications

1(P), 3(R)

Port size

4(A), 2(B)

Series

Port

location

Maximum

number of

stations

12 stations

• Simplification and labor savings for wiring work can be achieved by using a MIL type for the electrical connection.

Kit (Flat ribbon cable connector)

- Using connector for flat ribbon cable (26P, 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.

Flat Ribbon Cable (26 pins, 20 pins)

Terminal no.

(15.6)

26P

AXT100-FC 20 - 2

6

Cable

length (L

1.5 m

3 m

5 m

· Hirose Electric Co., Ltd

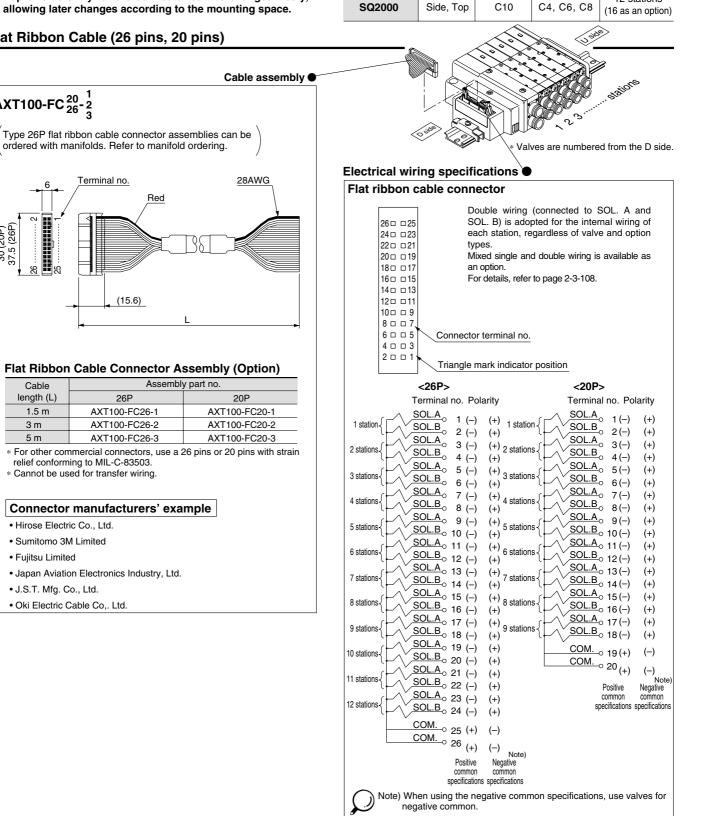
Sumitomo 3M Limited

• J.S.T. Mfg. Co., Ltd.

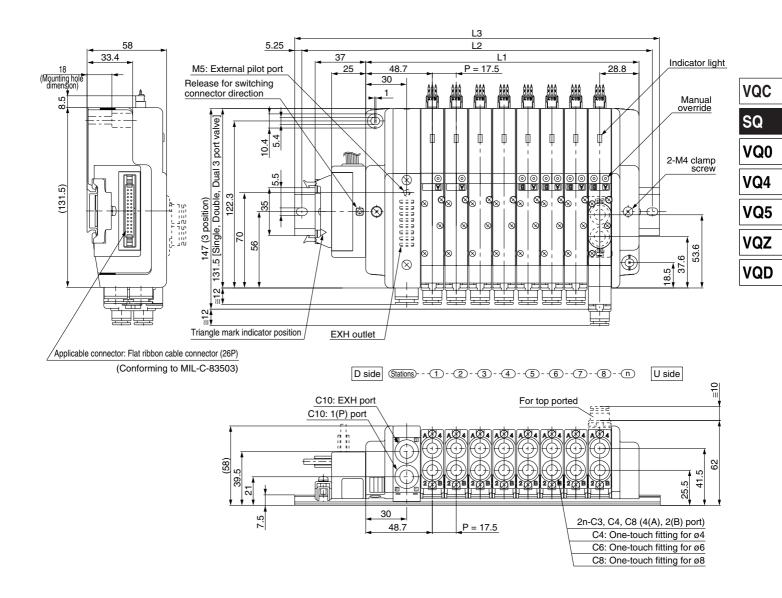
• Oki Electric Cable Co,. Ltd.

• Fujitsu Limited

30 (20P) 37.5 (26P



SMC



D	limen	sion	S					For	mula: I	_1 = 17	7.5n +	60 n:	Statio	ons (Ma	aximun	n 16 st	ations)
ì		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	L1	77.5	95	112.5	130	147.5	165	182.5	200	217.5	235	252.5	270	287.5	305	322.5	340
	L2	137.5	162.5	175	187.5	212.5	225	250	262.5	275	300	312.5	337.5	350	362.5	387.5	400
_	L3	148	173	185.5	198	223	235.5	260.5	273	285.5	310.5	323	348	360.5	373	398	410.5

Plug Lead Unit Series SQ1000/2000

Description/Model

Single

:

Valve

SUP/EXH block

BA

Valve

Option

D side 3 (R) ◄ 1 (P) ¬

U side

SSQ2000-PR-3-C10-

Valve

BA

Manifold Option Parts for SQ2000

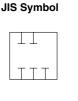
Blanking plate

SSQ2000-10A-4

SUP/EXH block

SSQ2000-PR-3-C10-

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.



VQC SQ VQ0 VQ4 VQ5 VQZ VQD



indicate "RS". * Specify the spacer mounting position

Option

Standard

External pilot specifications

Built-in silencer

Nil

R

on the manifold 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 manifold, due to the length of the lead wire.
- * SUP/EXH blocks are not included in the number of manifold stations.

Individual SUP spacer

SSQ2000-P-4- C8

Port location
 C8 Side ported
 L8 Top ported

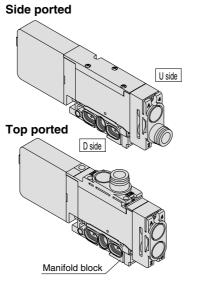
This is used as a supply port for different pressures when using different pressures in the same manifold (for one station).

Both sides of the station which is used with supply pressure from the individual SUP spacer are shut off. (Refer to application example.)

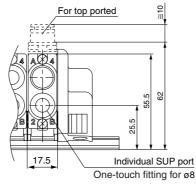
* Specify the spacer mounting position and SUP passage shut off positions on the manifold specification sheet. Two shut off positions are required per unit.

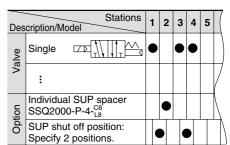
(Two pieces of SUP block plate that shut off the supply pressure are included with the individual SUP spacer, therefore, it is not necessary to order them separately.)

- * 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: SSQ2000-P-4-^{C8}_{L8} -<u>M</u>



D side





Stations

 \mathbb{M}

2 3 4 5

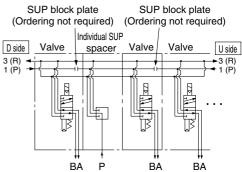
Valve SUP/EXH block U side

PR

BA

•

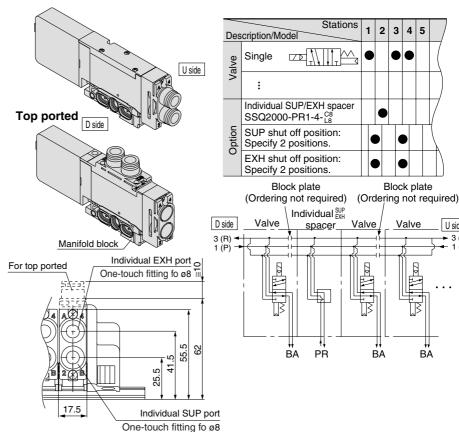
3 (R) 1 (P)



Manifold Option Parts for SQ2000

Side ported Individual EXH spacer SSQ2000-R-4-C8 Port location Stations 1 2 3 4 5 Description/Model C8 Side ported U side L8 Top ported Single \sim [7D]Valve This is used to exhaust an individual valve when : the exhaust from a valve interferes with other **Top ported** stations in the circuit (used for one station). Both D side Individual EXH spacer sides of the station which is to be individually Option SSQ2000-R-4- LE exhausted are shut off. (Refer to application EXH shut off position: example.) Specify 2 positions. * Specify the spacer mounting position and EXH passage shut off positionson the manifold specification sheet. Two shut off positions are EXH block plate (Ordering not required) required per unit. EXH block plate (Ordering not required) Individual EXH Valve / Valve (Four pieces of EXH block plate that shut off the exhaust are included the exhaust are in-Valve D side spacer U side cluded with the individual EXH spacer, there-Manifold block 3 (R) fore, it is not necessary to order them sepa-3 (R)-<u>10</u> 1 (P rately.) For top ported * Electrical wiring is also connected to the mani-57 fold station with the individual EXH spacer. * By changing the fitting shown in the drawing aØ4 and the block plates, the spacer's specification can be changed later (from the individual EXH spacer to the individual SUP spacer) 55.5 62 * The number of spacers is not limited when orŝ dered with the manifold. However, when add-÷ BA R BA BA ing 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 17.5 Individual EXH port * Model no. with manifold block: One-touch fitting fo ø8 SSQ2000-R-4-C8 -M

Side ported



U side

3 (R

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

and 4 pcs. of EXH block plate).]

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:

Individual SUP/EXH spacer

This has both functions of the individual SUP

and EXH spacers above. (Refer to application

* Specify the spacer mounting position and SUP

and EXH passage shut off positions on the

manifold specification sheet. Two shut off pos-

itions each for SUP and EXH are required per

[Block plates that shut off the SUP and EXH

passages are included with the individual

SUP/EXH spacer (2 pcs. of SUP block plate

* Electrical wiring is also connected to the mani-

* By changing the fitting shown in the drawing

and the block plates, the spacer's specification

fold station with the individual EXH spacer.

Port location

C8 Side ported

L8 Top ported

SSQ2000-PR1-4-C8

example.)

unit.

SSQ2000-PR1-4-C8-M



SUP block plate

SSQ1000-B-R

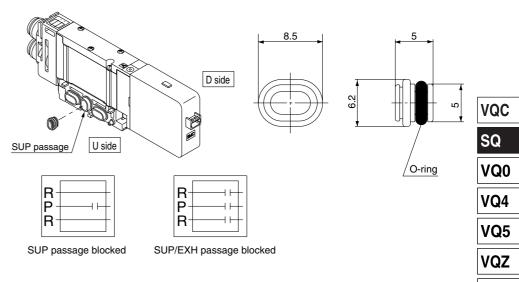
When supplying two different pressures, high and low, to one manifold, this is used between stations with different pressures. Also, it is used with an individual SUP spacer to shut off the air supply.

* 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

SSQ2000-B-R

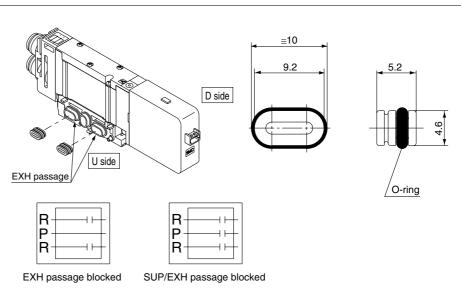
When the exhaust from a valve interferes with other stations in the circuit, this is used between stations to separate exhausts. Also, it is used with an individual EXH spacer to shut off the exhaust of individual valves.

* 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).

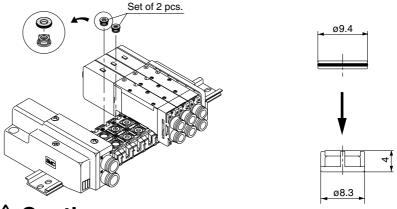
* Shut off labels are applied when EXH block plates are ordered with manifolds.



Back pressure check valve [-B] SSQ2000-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.



A Caution

- 1. 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.
- 2. The effective area of valves is about 20% less when the back pressure check valve is installed.



VQD

Manifold Option Parts for SQ2000

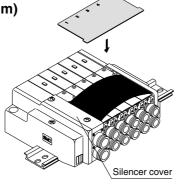
Name plate [-N]

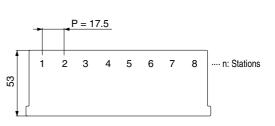
SSQ2000-N3- Stations (1 to maximum)

This is a clear resin plate for applying solenoid valve function description labels, etc.

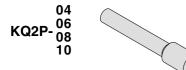
To install, bend the plate slightly as shown and insert into the slots on the end plate side. Also, the plate is difficult to bend for manifolds with only a few stations, therefore, remove the silencer cover to install it.

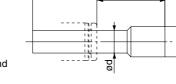
* When ordering with manifolds, add "-N" at the end of the manifold number.





Blanking plug (For One-touch fitting)





Dimensions

Applicable fittings size (ød)	Model	Α	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12

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

Purchasing order is available in units of 10 pieces.

Port plug

VVQZ2000-CP

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

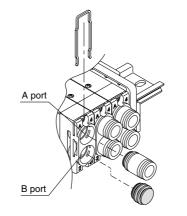
* Add "A" or "B" at the end of the valve part number when ordering with valves.

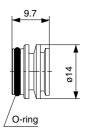
Example) SQ2141-5L-C8-A (N.O. specifications)

Example) SQ2141-5L-C8-B (N.C. specifications)

♦ 2(B) port plug Example) SQ2141-5L-C8-B-M

(B port plug with manifold block)





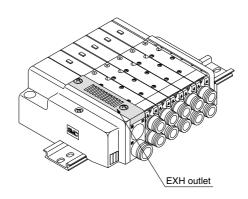
Direct EXH outlet, built-in silencer [-S]

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.



Plug Lead Unit Series SQ1000/2000

External pilot specifications [-R] External pilot port This can be used when the air pressure is 0.1 to (M5 x 0.8) 0.2 MPa lower than the minimum operating pressure of the solenoid valves or used for SUP/EXH block vacuum specifications. Add "R" to the part numbers of manifolds and valves to indicate the external pilot specifications. An M5 port will be installed on the top side of the manifold's SUP/EXH block. • How to order valves (Example) SQ2140 B -5L-C6 External pilot specifications • How to order manifold (Example) * Indicate "R" for an option. SS5Q24-08FD1-DR Note 1) Not applicable for dual 3 port valves. External pilot specifications

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.

VQC
SQ
VQ0
VQ4
VQ5
VQZ
VQD

Dual flow fitting

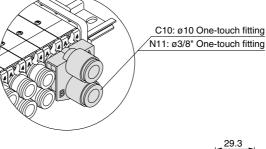
SSQ2000-52A-C10



To drive a large bore cylinder, two valve stations are are operated simultaneously to double the air flow. This fitting is used on the cylinder ports in this situation. Available sizes are $\emptyset 10$ and $\vartheta 3/8$ " One-touch fittings.

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

SQ2141-5L-C0 2 sets *SSQ2000-52A-^{C10}_N11------- 1 set

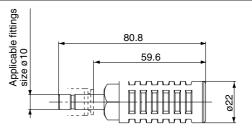


24.7

Silencer (For EXH port)

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





Specifications

Series	Model	Effective area (mm ²) (Cv factor)	Noise reduction (dB)
SQ2000	AN200-KM10	26 (1.4)	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

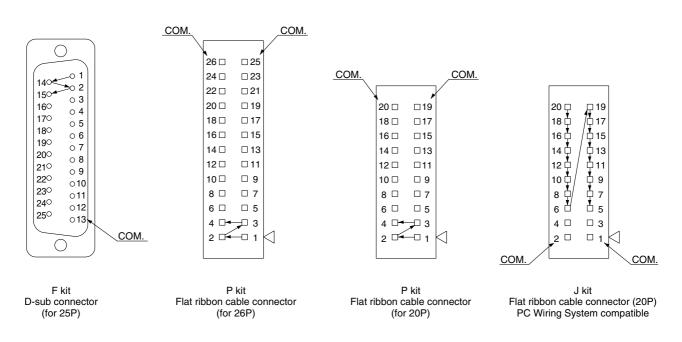
Indicate option symbol "-K" in the manifold part number and be sure to specify station positions for single or double wiring on the manifold specification sheet

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 (Flat ribbon ca	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						
Note) Maximum stations ···· SQ1000: 24 stations						

SQ2000: 16 stations

2-3-108

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

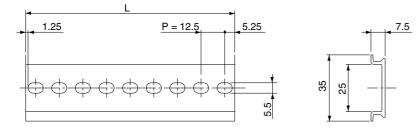
8 station manifold

Option symbols (alphabetically) DIN rail for 9 stations

Ordering DIN rail only

DIN rail part number

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

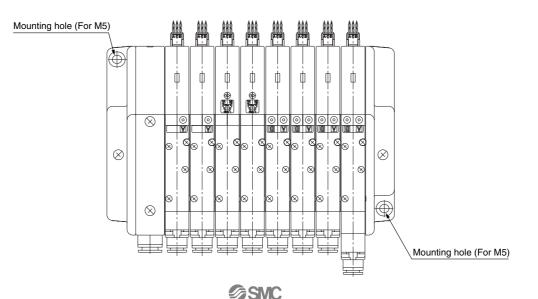


I Dimension

L Dimensi	ion								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 VQD

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

	location •
Nil	Side ported
L	Top ported

•Cylinder port					
Symbo)	N1	N3	N7	N9
Applicable tubing	ø1/8"	ø5/32"	ø1/4"	ø5/16"	
4(A) 0(D) = est	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)

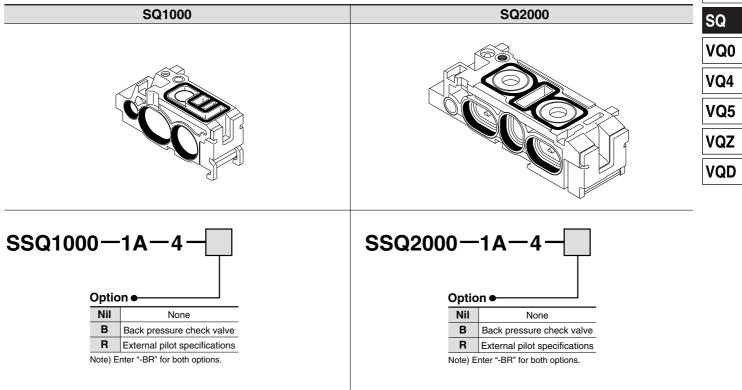
How to Add Manifold Stations for SQ1000/SQ2000

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.





VQC

Station 11

Station 12 Station 13 370

390

410

Station 23

Station 24

610

630

<complex-block><complex-block></complex-block></complex-block>	SQ2000 D-sub connector kit (F kit)	
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Flat ribbon cable kit (P kit), PC Wiring System compatible (J kit) • For single wiring SSQ1000 - 40A - P - 250 • For double wiring SSQ1000 - 41A - P - 350 Sation 1 430 Station 2 10 Station 1 430 Station 1 430 Station 2 10 Station 1 430 Station 1 430 Station 1 430 Station 2 10 Station 1 430 Station 1 430 Station 2 10 Station 1 430 Station 2 10 Station 1 430 Station 1 430 Station 2 10 Station 1 430 Station 2 10 Station 1 430 Station 2 10 Station 1 430 Station 2 10 Station 1 430 Station 2 20 Station 2 550 Station 2 330 Station 2 550 Station 2 330 Station 2 550 Station 2 330 Station 2 550 Station 2 300 Station 2 550 Station 2 570 Station 2 550 Station 2 550 Station 2 550 Station 2 550 Station 2 550 Station 2 570 Station 2 550 Station 2 570 Station 2		Station 12 390 Station 24 630
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		Station 10 250 Station 22 590

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VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

How to Add Manifold Stations for SQ1000/SQ2000

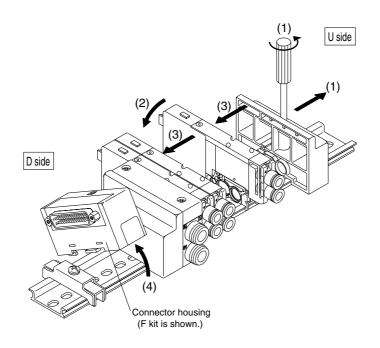
Steps for adding stations

(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)

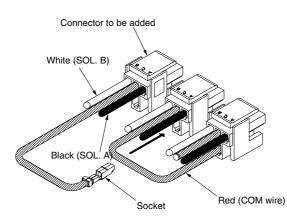
(4) In the case of F kit, P kit or J kit, remove the connector housing from the DIN rail and connect the wiring.



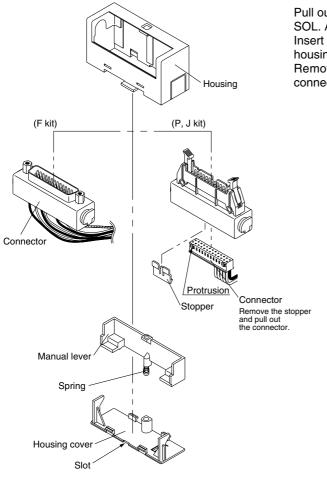
2. Connection Method

(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,



(2) Pulling	out connector
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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

VQC

SQ

VQ0

VQ4

VQ5

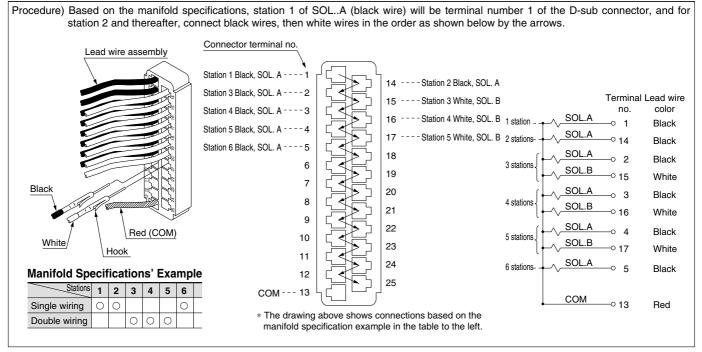
VQZ

VQD

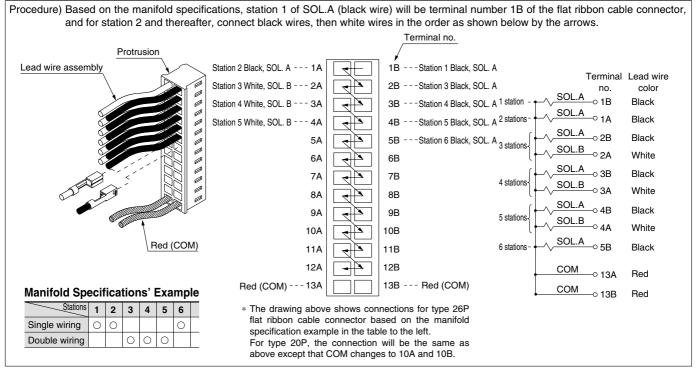
How to Add Manifold Stations for SQ1000/SQ2000

- (3) Connector connection/Connect the black and white lead wire pins to the positions shown below in accordance with each kit.
- After inserting the pin, confirm that the pin hook is locked by lightly pulling the lead wire.
 - 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.

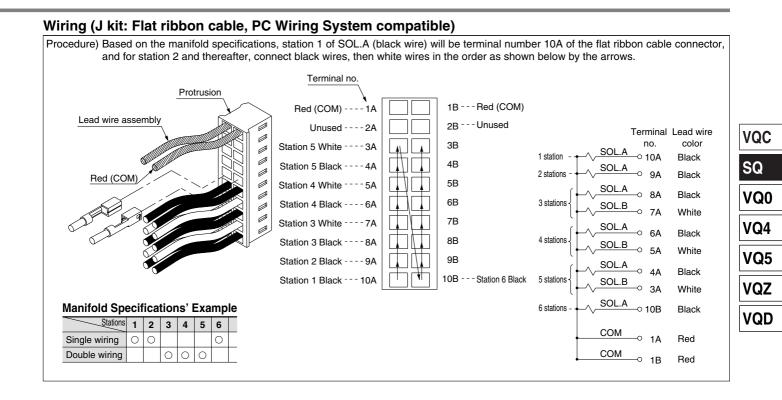
Wiring (F kit: D-sub connector kit)



Wiring (P kit: Flat ribbon cable kit)

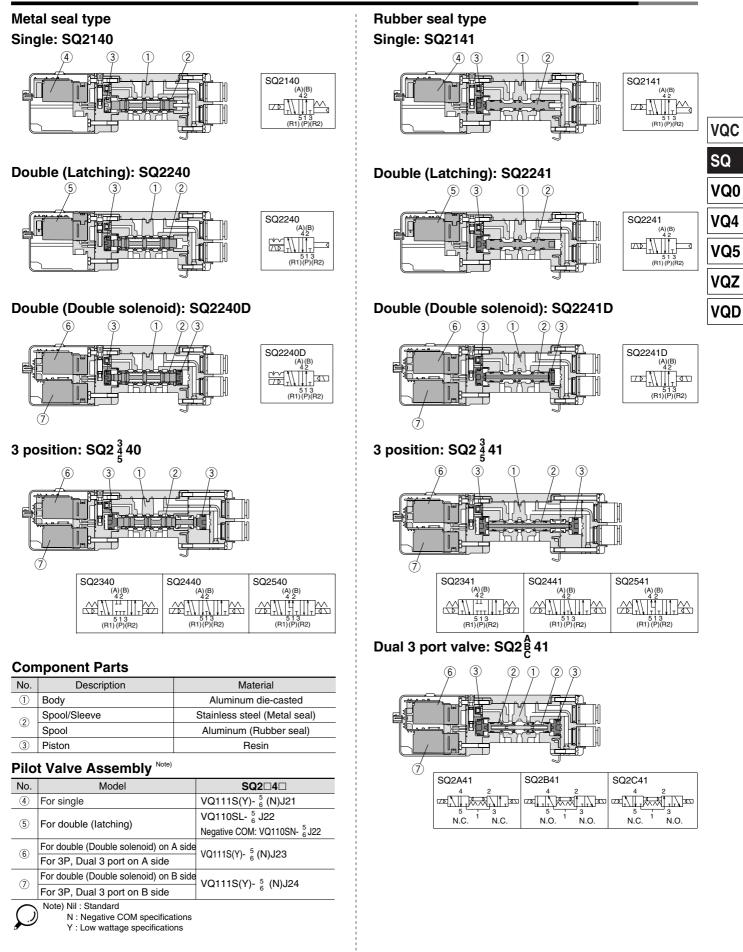


∕∂SMC



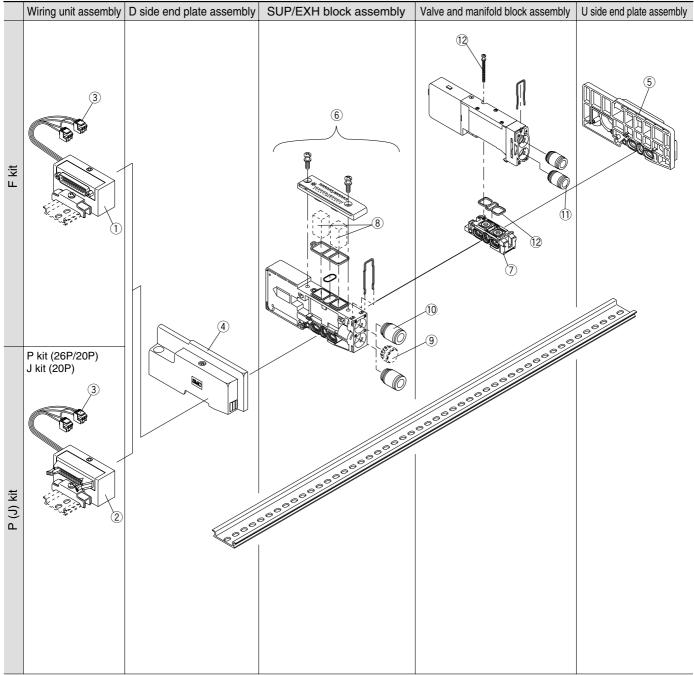
Plug Lead Unit Series SQ1000/2000

Construction: Series SQ2000 Plug Lead Type Main Parts and Pilot Valve Assembly



Exploded View of Manifold: SQ2000 (Plug lead type manifold) SS5Q24

(F, P, J, C kit)



Manifold Spare Parts

