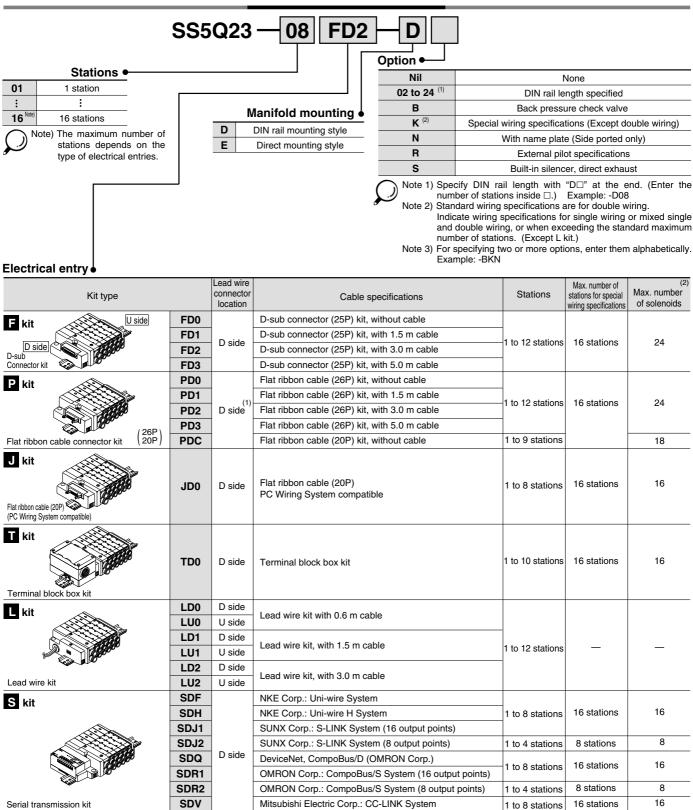
Series SQ2000 Plug-in Manifold

How to Order Manifold



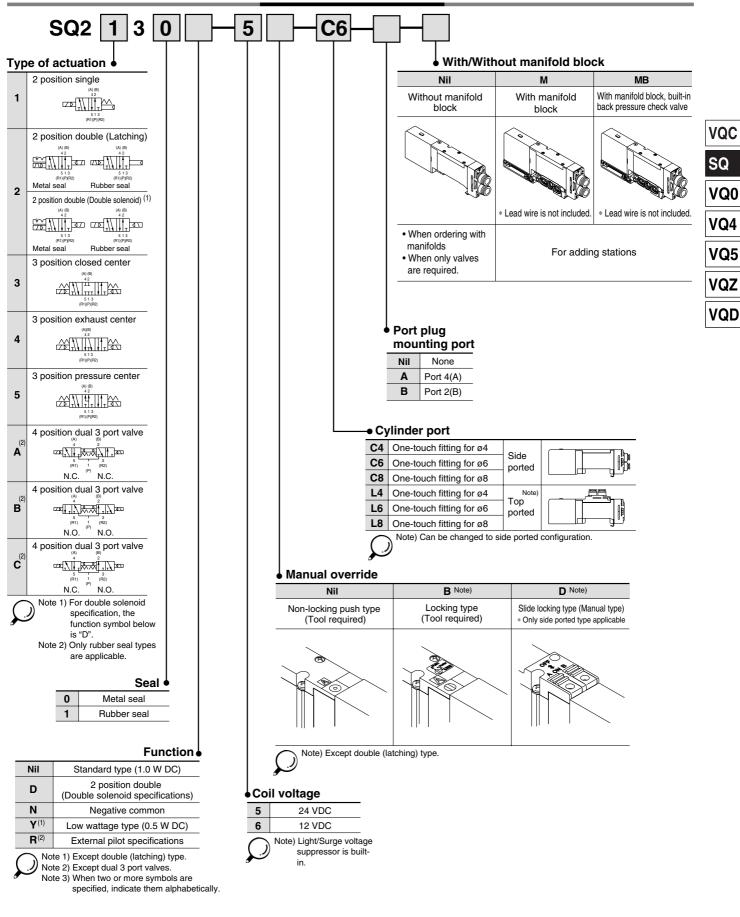
Note 1) Separately order the 20P type cable assembly for the P kit.

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.)

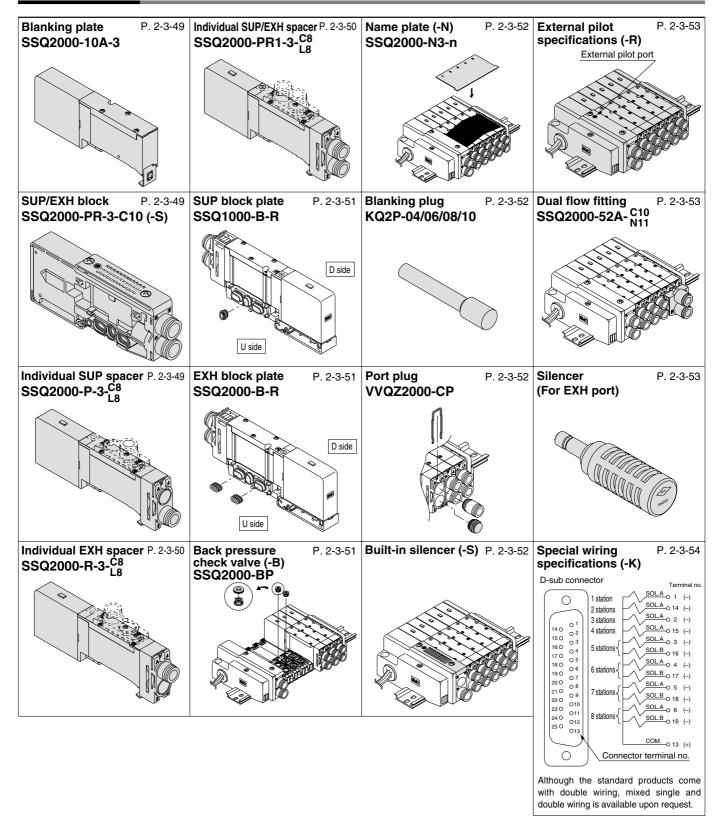


Plug-in Unit Series SQ2000

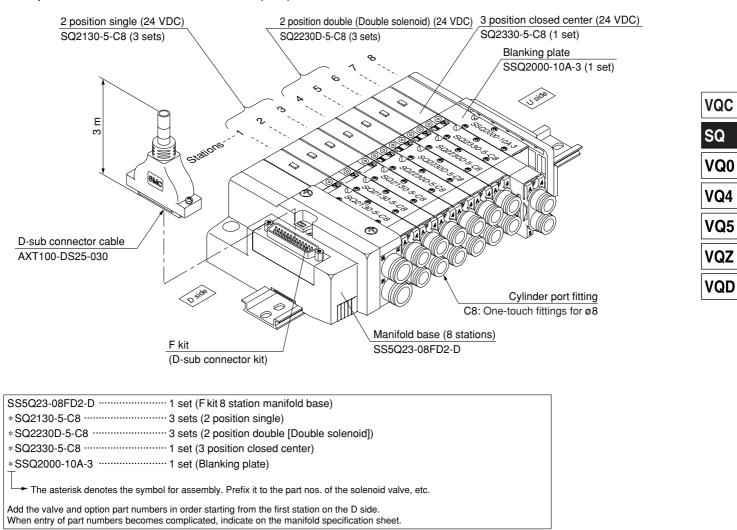
How to Order Valves



Manifold Option



How to Order Manifold Assembly (Example)



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

Valve Specifications

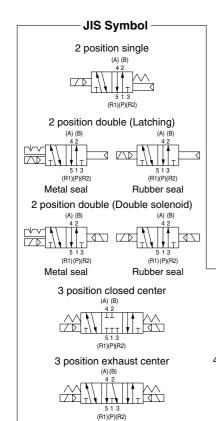
Model

		Number of					Flow cha	racteristics			Response	time (ms) ⁽²⁾	
Series		solenoids	Mode	l	$1 \rightarrow 4$	$/2 (P \rightarrow A)$	\/B)	$4/2 \rightarrow 5/3$	$B (A/B \rightarrow $	R1/R2)	Standard:	Low	Weight (g)
					C [dm3/(s·bar)]	b	Cv	C [dm3/(s·bar)]	b	Cv	1 W	wattage	(9)
		Single	Metal seal	SQ2130	2.2	0.17	0.51	2.4	0.14	0.57	20 or less	26 or less	145
	E	Single	Rubber seal	SQ2131	2.3	0.17	0.51	3.1	0.18	0.71	24 or less	31 or less	140
	position	Double	Metal seal	SQ2230	2.2	0.17	0.51	2.4	0.14	0.57	26 or less	_	145
	2 pc	(Latching)	Rubber seal	SQ2231	2.3	0.17	0.51	3.1	0.18	0.71	31 or less	_	140
		Double	Metal seal	SQ2230D	2.2	0.17	0.51	2.4	0.14	0.57	15 or less	20 or less	160
		(Double solenoid)	Rubber seal	SQ2231D	2.3	0.17	0.51	3.1	0.18	0.71	20 or less	26 or less	155
		Closed	Metal seal	SQ2330	1.9	0.17	0.46	2.1	0.15	0.47	34 or less	44 or less	180
SQ2000	Ę	center	Rubber seal	SQ2331	1.9	0.17	0.46	1.8	0.29	0.47	34 or less	44 or less	175
302000	sition	Exhaust	Metal seal	SQ2430	1.9	0.17	0.46	2.4	0.14	0.55	34 or less	44 or less	180
	3 po	center	Rubber seal	SQ2431	1.9	0.17	0.46	3.1	0.14	0.65	34 or less	44 or less	175
		Pressure	Metal seal	SQ2530	2.3	0.17	0.51	2.1	0.18	0.47	34 or less	44 or less	180
		center	Rubber seal	SQ2531	2.5	0.17	0.56	1.8	0.30	0.47	34 or less	44 or less	175
	4 position	Dual 3 port valve	Rubber seal	SQ2 ^A c31	1.5	0.17	0.40	1.5	0.17	0.40	34 or less	44 or less	155

 \sim Note 1) Values for the top ported cylinder port size of C8. The side ported type will be about 10% less.

Note 2) Based on JIS B 8375-1981. (Values with a supply pressure of 0.5 MPa and light/surge voltage suppressor. Values fluctuate depending on the pressure and air quality.)





Specifications

peci	noat				
	Valv	e construction		Metal seal	Rubber seal
	Flui	d		Air/Ine	ert gas
	Max	imum operating	pressure	0.7	MPa
S	ure	Single		0.1 MPa	0.15 MPa
ation	Dress	Double (Latchi	ng)	0.18 MPa	0.18 MPa
sifice	ating	Double (Double	e solenoid)	0.1 MPa	0.1 MPa
Valve specifications	Min. operating pressure	3 position		0.1 MPa	0.2 MPa
Ve	Min.	4 position		_	0.15 MPa
Val	Aml	pient fluid tempe	rature	-10 to	50°C ⁽¹⁾
	Lub	rication		Not re	quired
	Pilo	t valve manual c	override	Push type (Tool required)/Slic	le locking type (Tool required)
	Vibr	ation/Impact res	istance ⁽²⁾	30/15	0 m/s ²
	Prot	ection structure		Dust	tight
	Coil	rated voltage		12 VDC,	24 VDC
ions	Allo	wable voltage flu	uctuation	±10% of ra	ted voltage
Solenoid ecificatic	Coil	insulation type		Equivalent	to class B
Solenoid specifications	Powe	r consumption	24 VDC	1 W DC (42 mA), 0	.5 W DC (21 mA) ⁽³⁾
ŝ	(Curr		12 VDC	1 W DC (83 mA), 0	.5 W DC (42 mA) ⁽³⁾
		e dry air to prever		when operating at low temperatur	

Note 1) Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period) Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at the right angles to the main valve and armature.

in both energized and de-energized states every once for each condition. (Values at the initial period) Note 3) Values for the low wattage (0.5 W) specifications.

3 position pressure center

(A) (B) \square (R1)(P)(R2)

4 position dual 3 port valve (A)

R.M. ∖∖∣↑₋∣⊴∽ N.C. 1 N.C.

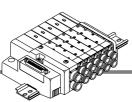
4 position dual 3 port valve (B) N.O. N.O. 4 position dual 3 port valve (C) L an N.C. N.O.

Plug-in Unit Series SQ2000

Manifold Specifications

		g specifica					(0)	(1)	(1)	
Base model	Р	ort size ⁽¹⁾		Applicable	Type of connection		Applicable ⁽³⁾	5 station (4)	1 station	
	1(P), 3(R)		A), 2(B)	solenoid valve			stations	weight (g)	weight (g)	
	,,	Port location	Port size					(9)		
Series SQ2000	010		CA(Farred)		F kit: D-sub connector	1	1 to 12 stations	580	35	
	C10 (For ø10)	Side	C4 (For ø4) C6 (For ø6) C8 (For ø8)		P kit: Flat ribbon cable	26P 20P	1 to 12 stations 1 to 9 stations	580	35	VQC
SS5Q23-	Option Built-in		. ,	SQ2 🗌 30 SQ2 🗌 31	J kit: Flat ribbon cable PC Wiring System com	oatible	1 to 8 stations	580	35	SQ
	silencer, direct exhaust	(2)	L4 (For ø4)		T kit: Terminal block		1 to 10 stations	1,165	620	20
		Тор	L6 (For ø6) L8 (For ø8)		L kit: Lead wire		1 to 12 stations	620	50	VQ0
			L8 (F01 Ø8)		S kit: Serial transmission		1 to 8 stations	650	35	
	l h fittings in inch sizes			refer to page 2-3-5			1			VQ4
Note 3) An option	nanged to side ported al specification for spe lives. For valve weigh	ecial wiring i	s available to incre	ase the maximum	number of stations. Refer to page 2	-3-54 for	details.			VQ5
	-	~	-		~					VQZ
	/	$\langle \rangle$			A PORT					VQD
				(A) 2(P) port						
			3(R) p 1(P) p		26P/2 20P	20P (P	kit)			
	F ki	it	<u>25P</u>		P kit					
	kit			L kit	Ę		S kit	I		

Kit (D-sub connector kit)



Series

SQ2000

Manifold Specifications

Port

location

Side, Top

Porting specifications

1(P), 3(R)

C10

Port size

4(A), 2(B)

C4, C6, C8

Maximum

number of

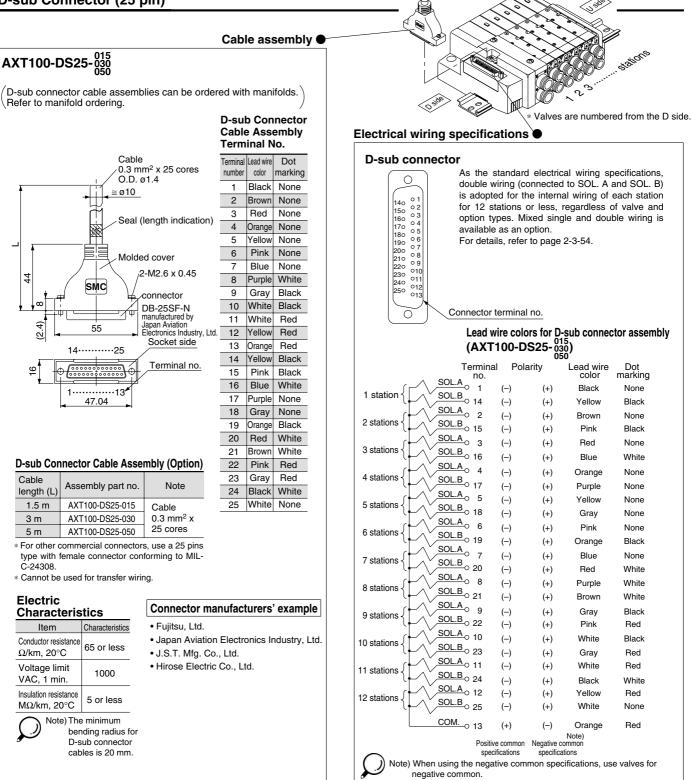
stations

12 stations

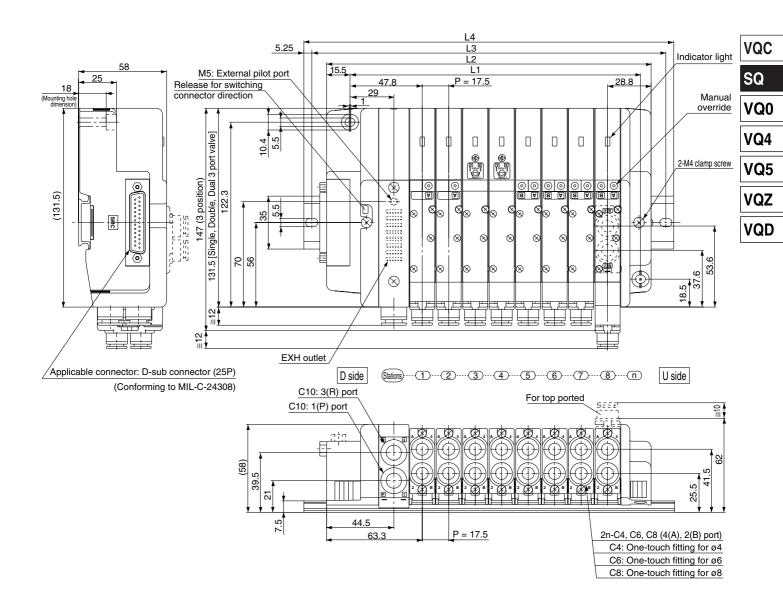
(16 as an option)

- Simplification and labor savings for wiring work can be achieved by using a D-sub connector for the electrical connection.
- Using connector for flat ribbon cable (25P) 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.

D-sub Connector (25 pin)

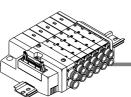






Dimen	sion	S		Formula: L1 = 17.5n + 52, L2 = 17.5n + 74.5 n: Stations (Maximum 16 stations)												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	69.5	87	104.5	122	139.5	157	174.5	192	209.5	227	244.5	262	279.5	297	314.5	332
L2	92	109.5	127	144.5	162	179.5	197	214.5	232	249.5	267	284.5	302	319.5	337	354.5
L3	112.5	137.5	150	175	187.5	200	225	237.5	262.5	275	287.5	312.5	325	350	362.5	375
L4	123	148	160.5	185.5	198	210.5	235.5	248	273	285.5	298	323	335.5	360.5	373	385.5

Kit (Flat ribbon cable connector)



Series

SQ2000

Manifold Specifications

Port

location

Side, Top

Porting specifications

1(P), 3(R)

C10

Port size

4(A), 2(B)

C4, C6, C8

Maximum

number of

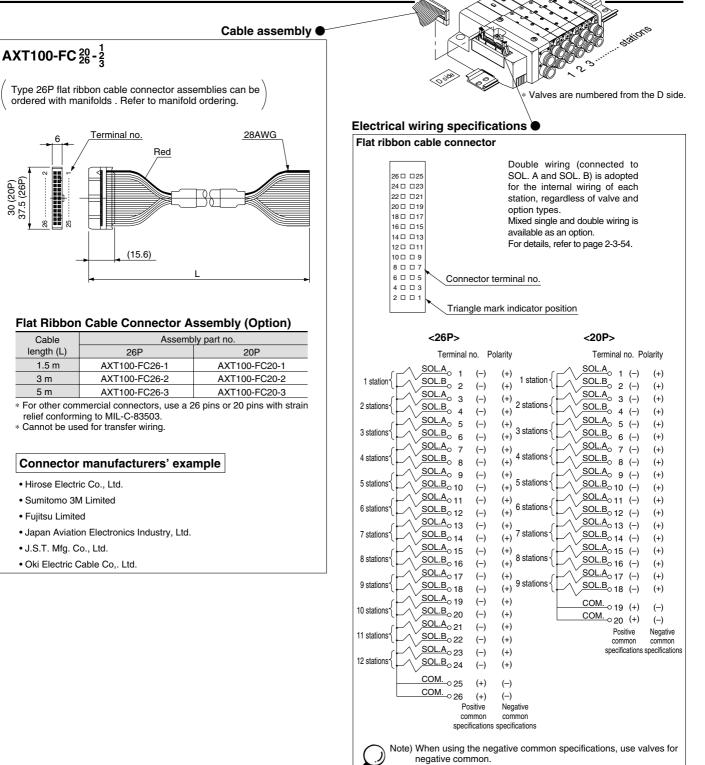
stations

12 stations

(16 as an option)

- Simplification and labor savings for wiring work can be achieved by using a flat ribbon cable for the electrical connection.
- 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)



6

Cable length (L)

1.5 m

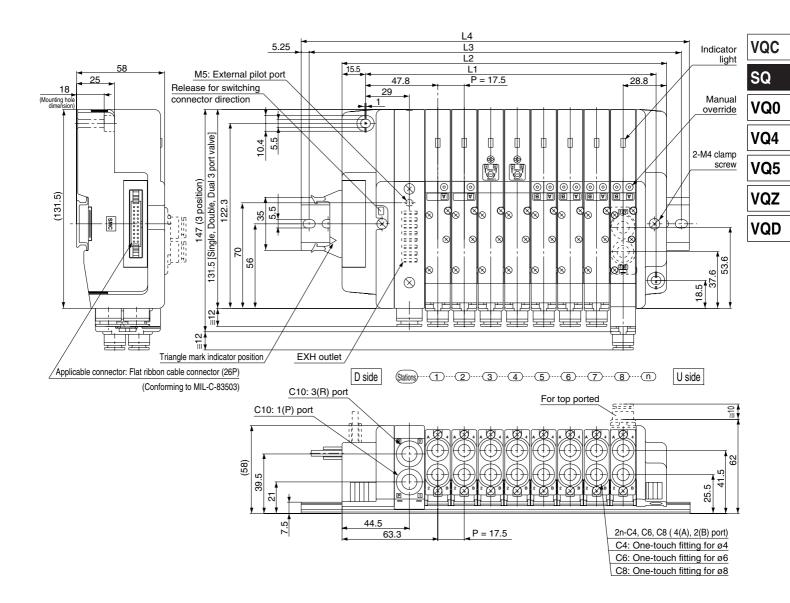
3 m

5 m

• Fujitsu Limited

30 (20P) 37.5 (26P



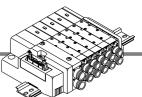


Dimens	sion	S		Formula: L1 = 17.5n + 52, L2 = 17.5n + 74.5 n: Stations (Maximum 16 stations)												
/	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	69.5	87	104.5	122	139.5	157	174.5	192	209.5	227	244.5	262	279.5	297	314.5	332
L2	92	109.5	127	144.5	162	179.5	197	214.5	232	249.5	267	284.5	302	319.5	337	354.5
L3	112.5	137.5	150	175	187.5	200	225	237.5	262.5	275	287.5	312.5	325	350	362.5	375
L4	123	148	160.5	185.5	198	210.5	235.5	248	273	285.5	298	323	335.5	360.5	373	385.5

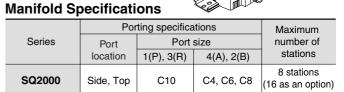
Kit (PC Wiring System compatible flat ribbon cable kit)

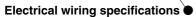
ation

Valves are numbered from the D side.



- 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.



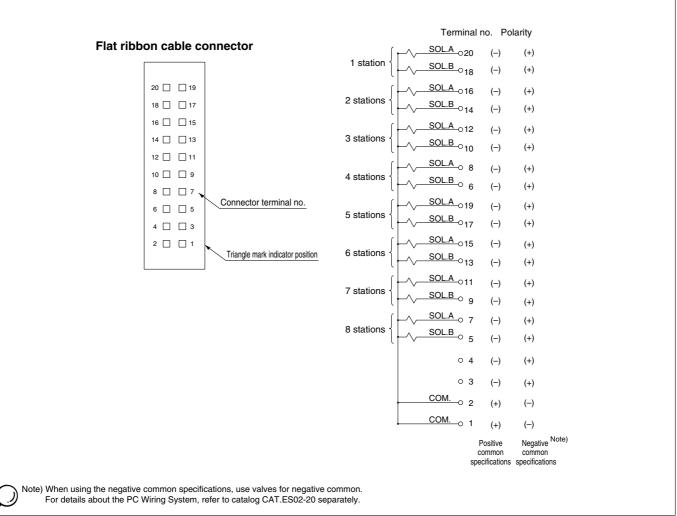


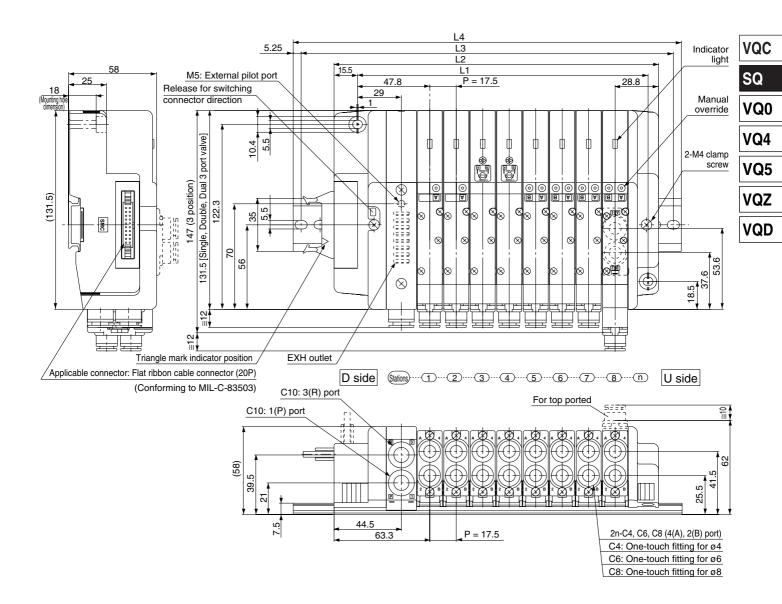
Double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station,

regardless of valve and option types.

Mixed single and double wiring is available as an option.

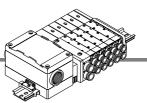
For details, refer to page 2-3-54.



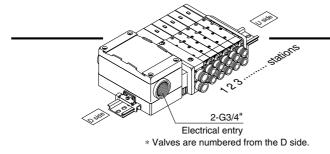


	Dimens	sion	S		For	mula:	L1 = 1	7.5n +	52, L2	= 17.5	5n + 74	l.5 n:	Statio	ns (Ma	aximun	n 16 st	ations)
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	L1	69.5	87	104.5	122	139.5	157	174.5	192	209.5	227	244.5	262	279.5	297	314.5	332
	L2	92	109.5	127	144.5	162	179.5	197	214.5	232	249.5	267	284.5	302	319.5	337	354.5
	L3	112.5	137.5	150	175	187.5	200	225	237.5	262.5	275	287.5	312.5	325	350	362.5	375
Ī	L4	123	148	160.5	185.5	198	210.5	235.5	248	273	285.5	298	323	335.5	360.5	373	385.5

Kit (Terminal block box kit)



- A compact terminal block is installed inside the box. G 3/4" female threads prepared for the electrical entry enables a conduit tube bracket to be connected.
- The maximum number of stations is 10 (16 option).



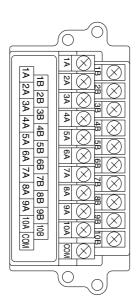
Manifold Specifications

	Р	orting specifi	cations	Maximum
Series	Port	Por	t size	number of
	location	stations		
SQ2000	Side, Top	C10	C4, C6, C8	10 stations (16 as an option)

Electrical wiring specifications

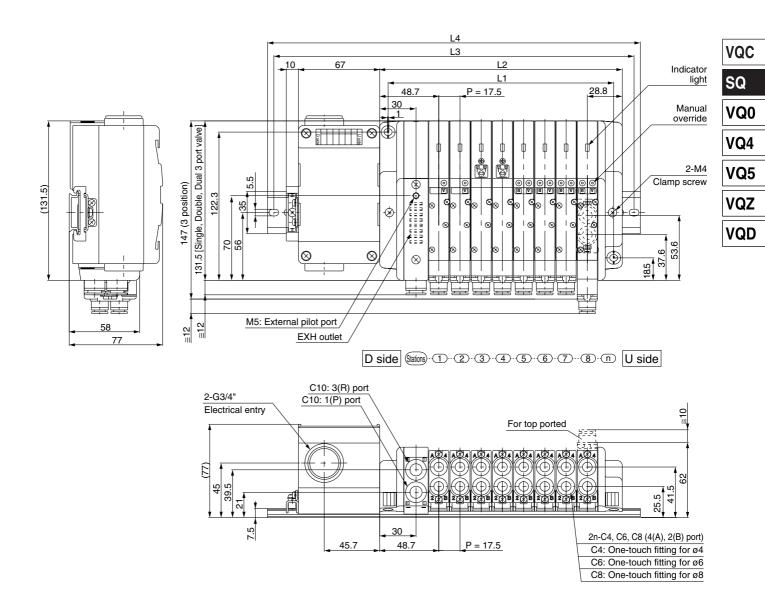
As the standard electrical wiring specifications, double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station for 10 stations or less, regardless of valve and option types.

Mixed single and double wiring is available as an option. For details, refer to page 2-3-54.



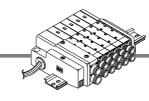
	T
\sim	Terminal no. Polarity
	1 station { SOL.A (-) (+)
	(-) (+)
	2 stations { SOL A (-) (+)
	2 stations SOL.B 2 B (-) (+)
	$2 \text{ stations} \int \frac{\text{SOL.A}}{\text{SOL.A}} 3 \text{A} (-) (+)$
	3 stations { SOL.B 3B (-) (+)
	4 stations $\begin{cases} SOL.B \\ 4B \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ $
	SOL.A
	5 stations $\begin{cases} \hline & & & \\$
	SOL.A
	6 stations {
	(SOL.A _
	7 stations $\begin{cases} SOLB \\ SOLB \end{cases}$
	(
	8 stations $\begin{cases} & & & SOLB \\ & & & SOLB \end{cases}$
	(-) (+)
	9 stations $\begin{cases} -\sqrt{SOL.A} & 9A (-) & (+) \\ -\sqrt{SOL.B} & - & (+) \end{cases}$
	(
	10 stations $\begin{cases} \sqrt{SOLA} & 10A \\ SOLB & (-) \\ SOLB & (+) \end{cases}$
	10 stations SOL.B 0 10B (-) (+)
	└────────────────────────────────────
Note) When using the negative common specifications, use valves for r	Positive Negative Note) egative common common specifications specifications
/	

)



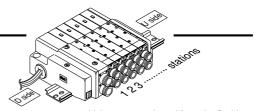
Dimen	sion	S		F	ormula	a: L1 =	17.5n	+ 46, l	_2 = 17	7.5n +	60 n:	Statio	ons (Ma	aximun	n 16 st	ations)
L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	63.5	81	98.5	116	133.5	151	168.5	186	203.5	221	238.5	256	273.5	291	308.5	326
L2	77.5	95	112.5	130	147.5	165	182.5	200	217.5	235	252.5	270	287.5	305	322.5	340
L3	175	200	212.5	237.5	250	262.5	287.5	300	325	337.5	350	375	387.5	412.5	425	437.5
L4	185.5	210.5	223	248	260.5	273	298	310.5	335.5	348	360.5	385.5	398	423	435.5	448

Kit (Lead wire cable)

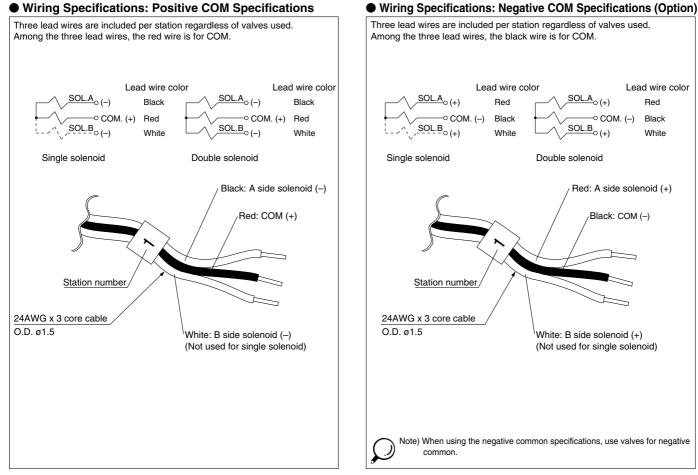


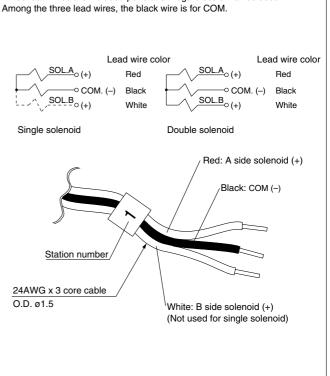
Direct electrical entry type Manifold Specifications

		Porting speci	Porting specifications								
Series	Port	Por	t size	number of							
	location	location 1(P), 3(R) 4(A), 2(B)									
SQ2000	Side, Top	C10	C4, C6, C8	12 stations							

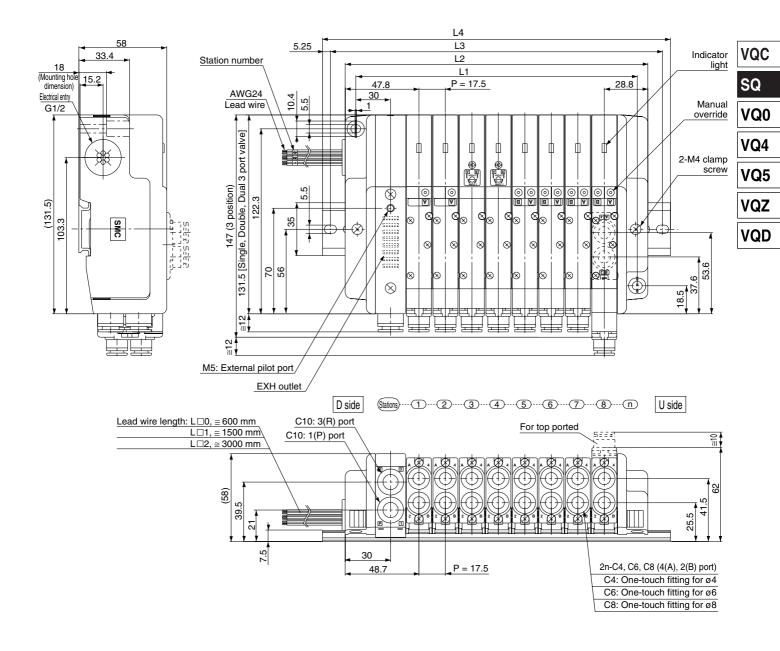


* Valves are numbered from the D side.



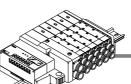


Note) When using the negative common specifications, use valves for negative common.



Dimens	sion	S	Formula: L1 = 17.5n + 46, L2 = 17.5n + 60 n: Stations (Maximum 12 stations)											
L	1	2	3	4	5	6	7	8	9	10	11	12		
L1	63.5	81	98.5	116	133.5	151	168.5	186	203.5	221	238.5	256		
L2	77.5	95	112.5	130	147.5	165	182.5	200	217.5	235	252.5	270		
L3	100	125	137.5	150	175	187.5	212.5	225	237.5	262.5	275	300		
L4	110.5	135.5	148	160.5	185.5	198	223	235.5	248	273	285.5	310.5		





- The serial transmission system reduces wiring work, while minimizing wiring and saving space.
- The maximum number of stations is 8. (16 as an option).
 Only for type J2 and R2, the maximum stations are 4 (8 as an option).

stations

Manifold Specifications

	F	Porting specif	ications	Maximum				
Series	Port	Port	size	number of				
	location	location 1(P), 3(R) 4(A), 2(B)						
SQ2000	Side, Top	C10	C4, C6, C8	8 stations				

- Stations are counted from station 1 on the D side.
- Double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station, regardless of valve and option types.

Mixed single and double wiring is available as an option.

Item	Specifications
External power supply	24 VDC, +10%, -5%
Current consumption (Inside unit)	0.1 A or less

Corresponding SI unit output numbers and solenoid coils <Wiring example 1>

А	В	А	В	A	None	Α	None	А	в
Dou	ble	Dou	ıble	Si	ngle	Si	ngle	Sin	gle
1		2	2		3		4	5	5
		A B Double	Double Dou		Double Double Sir	Double Double Single	DoubleDoubleSingleSi123	DoubleDoubleSingleSingle1234	Double Double Single Single Sin

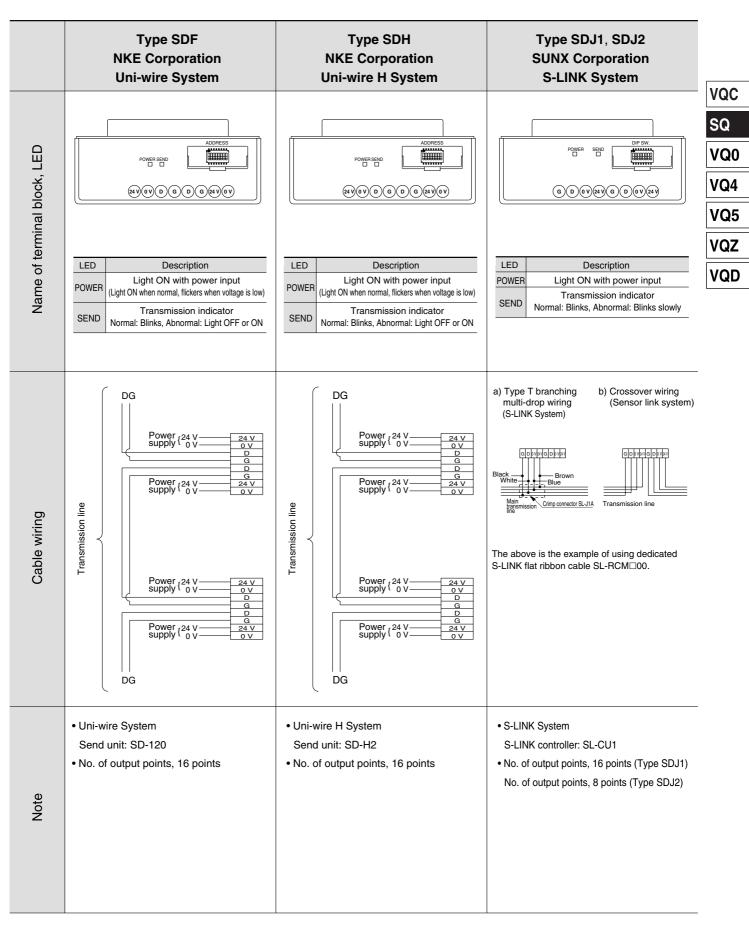
Double wiring (Standard)

M3 screw

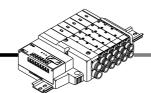
<Wiring example 2>

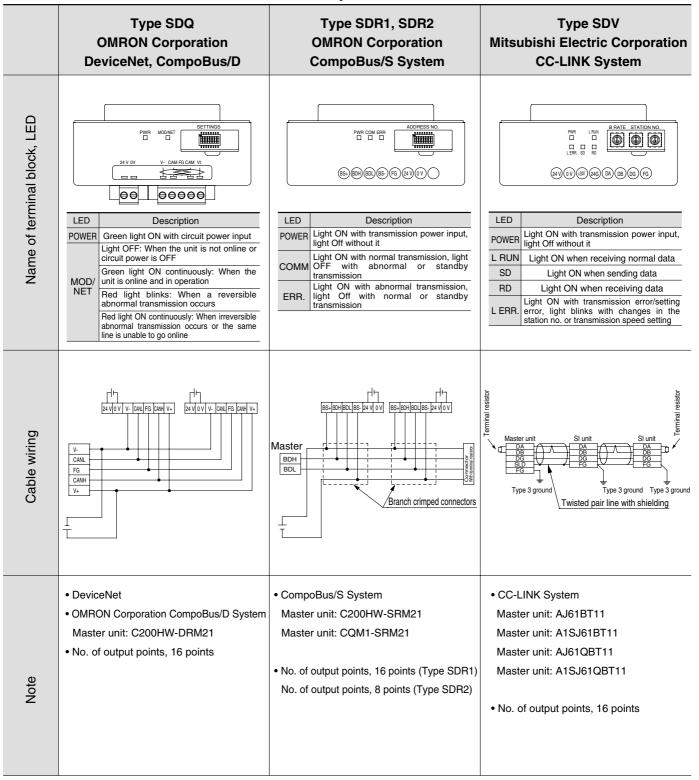
* Mixed wiring is available as an option. Specify the wiring specification by means of the manifold specification sheet. Refer to page 2-3-54 for details.

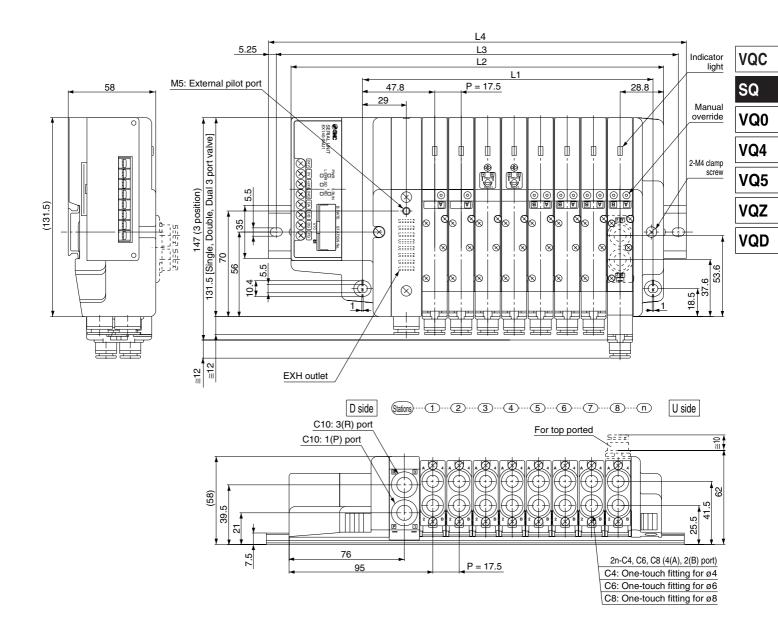
SI unit ····· output no.	0	1	2	3	4	5	6	7
	А	В	А	В	А	А	А	В
SI unit	Dou	ıble	Do	uble	Single	Single	Dou	uble
Stations	1		2	2	3	4	5	5
				Mi	xed single a	nd double wi	rina (O	ption)



Kit (Serial transmission unit)







	Dimens	sion	S		Fo	rmula:	L1 = 1	17.5n +	52, L	2 = 17.	5n + 1	06 n:	Statio	ons (Ma	aximun	n 16 st	ations)
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	L1	69.5	87	104.5	122	139.5	157	174.5	192	209.5	227	244.5	262	279.5	297	314.5	332
	L2	123.5	141	158.5	176	193.5	211	228.5	246	263.5	281	298.5	316	333.5	351	368.5	386
	L3	150	162.5	187.5	200	225	237.5	250	275	287.5	312.5	325	337.5	362.5	375	400	412.5
Ī	L4	160.5	173	198	210.5	235.5	248	260.5	285.5	298	323	335.5	348	373	385.5	410.5	423

Plug-in Unit Series SQ1000/2000

Manifold Option Parts for SQ2000

Blanking plate

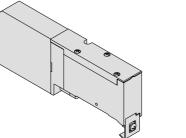
SSQ2000-10A-3

SUP/EXH block

SSQ2000-PR-3-C10-

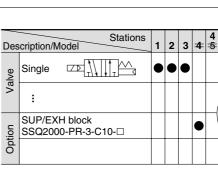
cate "RS".

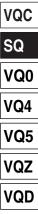
It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.



U side

ŝ 55. Ø 17.5

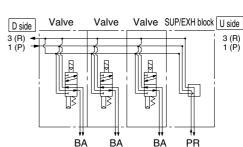




JIS Symbol

 $\perp \perp$

Т Т Т



* 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

internal lead wire.

capacity.

block is mounted on the D side.

* SUP/EXH blocks are not included in the number of manifold stations.

Note) When specifying both options, indi-

Specify the spacer mounting position

on the manifold specification sheet. For standard type manifolds, the SUP/EXH

It is added to the manifold to increase SUP/EXH

Individual SUP spacer

SSQ2000-P-3-C8

 Port location C8 Side ported L8 Top ported

Option

Standard

External pilot specifications

Built-in silencer

D side

Side ported

Nil

R

S

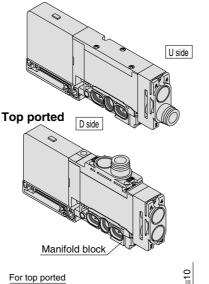
This is used as a supply port for different pressures when using different pressures in the same manifold (for one station).

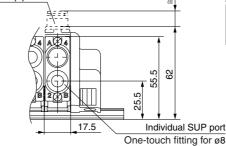
Both sides of the station which is used with supply pressure from the individual SUP spacer are shut off. (Refer to application example.)

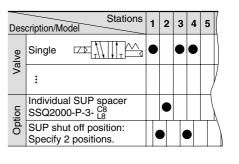
Specify the spacer mounting position and SUP passage shut off positions on the manifold specification sheet. Two shut off positions are required per unit.

(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.)

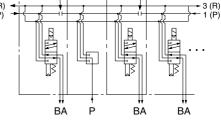
- * Electrical wiring is also connected to the manifold station with the individual SUP spacer.
- * By changing the fitting shown in the drawing and the block plates, the spacer's specification can be changed later (from the individual SUP spacer to the individual EXH spacer).
- * The number of spacers is not limited when ordered with the manifold. However, when adding individual SUP spacers later, it is limited to two units, and another on the U side due to the length of the internal lead wire.
- * Model no. with manifold block: SSQ2000-P-3-C8 -M







SUP block plate SUP block plate (Ordering not required) (Ordering not required) Individual SUP Valve Valve D side Valve spacer 3 (R) 1(P)



SMC

U side

Manifold Option Parts for SQ2000

Individual EXH spacer

SSQ2000-R-3-C8

•Port location C8 Side ported

L8 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.

(Four 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 EXH spacers later, it is limited to two units, one between manifold stations and another on the U side due to the length of the internal lead wire.
- * Model no. with manifold block: SSQ2000-R-3- $\frac{C8}{L8}$ M

Individual SUP/EXH spacer

SSQ2000-PR1-3-C8

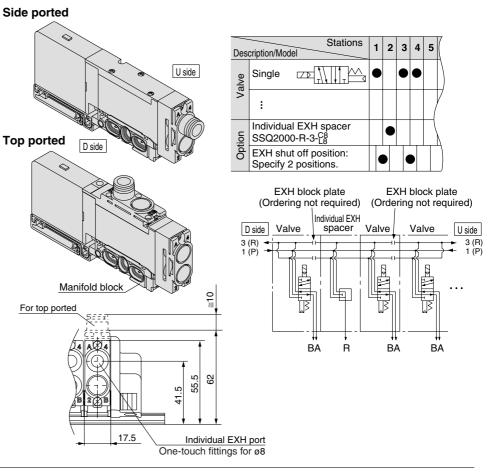
Port location
 C8 Side ported
 L8 Top ported

This has both functions of the individual SUP and EXH spacers above. (Refer to application example.)

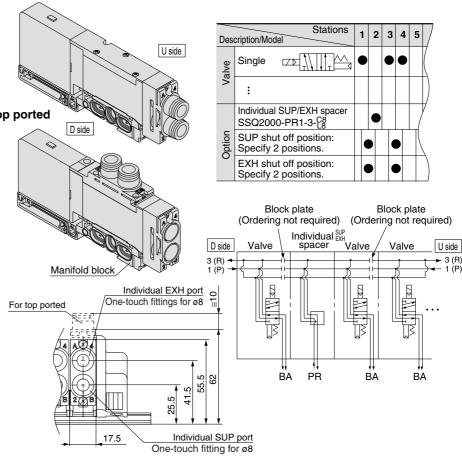
* Specify the spacer mounting position and SUP and EXH passage shut off positions on the manifold specification sheet. Two shut off positions each for SUP and EXH are required per unit.

[Block plates that shut off the SUP and EXH passages are included with the individual SUP/EXH spacer (2 pcs. of SUP block plate and 4 pcs. of EXH block plate).]

- * 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.
- * The number of spacers is not limited when ordered with the manifold. However, when adding individual SUP/EXH spacers later, it is limited to two units, one between manifold stations on the U side due to the length of the internal lead wire.
- * Model no. with manifold block: SSQ2000-PR1-3-^{C8} - M



Side ported



SMC

Plug-in Unit Series SQ1000/2000

SUP block plate

SSQ1000-B-R

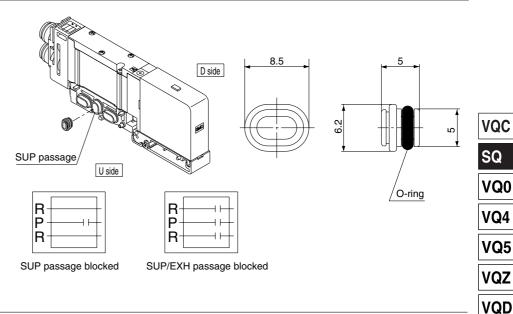
When supplying two different pressures, high and low, to one manifold, this is used between stations with different pressures. Also, it is used with an individual SUP spacer to shut off the air supply.

* 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

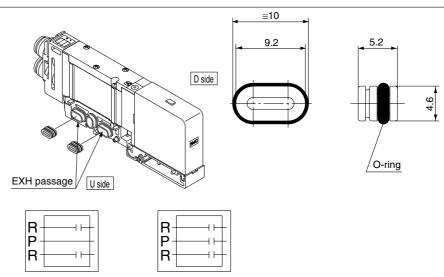
When the exhaust from a valve interferes with other stations in the circuit, this is used between stations to separate exhausts. Also, it is used with an individual EXH spacer to shut off the exhaust of individual valves.

* Specify the station position on the manifold specification sheet.

<Shut off label>

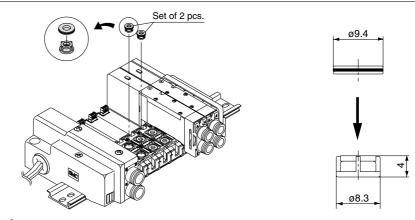
When an EXH passage is shut off with an EXH block plate, a label is attached for external confirmation of the shut off position (one label each).

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



EXH passage blocked

SUP/EXH passage blocked



\land 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.

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 mounting stations 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.

Manifold Option Parts for SQ2000

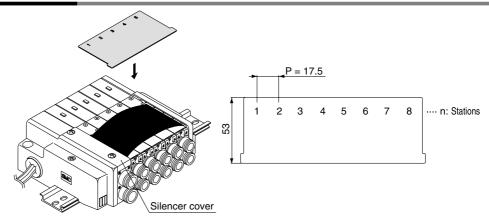
Name plate [-N]

SSQ2000-N3- Stations (1 to maximum)

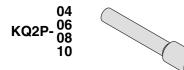
This is a clear resin plate for applying solenoid valve function description labels, etc.

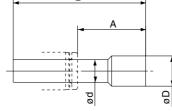
To install, bend the plate slightly as shown and insert into the slots on the end plate side. Also, the plate is difficult to bend for manifolds with only a few stations, therefore, remove the silencer cover to install it.

* 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	A	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.

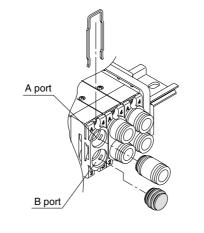
* Add "A" or "B" at the end of the valve part number when ordering with valves. Example) SQ2131-5-C8-A (N.O. specifications)

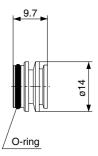
4 (A) port plug

Example) SQ2131-5-C8-B (N.C. specifications)

2 (B) port plug

Example) SQ2131-5-C8-B-M (B port plug with manifold block)





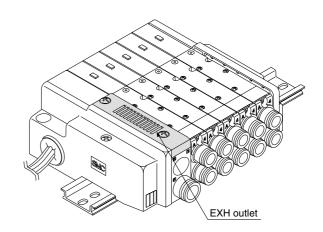
Direct EXH outlet, built-in silencer [-S]

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.





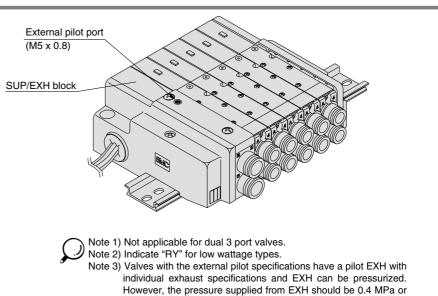
Plug-in Unit Series SQ1000/2000

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

- How to order valves (Example) SQ2130 <u>R</u> -5-C6
 - External pilot specifications
- How to order manifold (Example)
 Indicate "R" for an option.
 SS5Q23-08FD1-DR
 - External pilot specifications



Dual flow fitting

SSQ2000-52A- C10

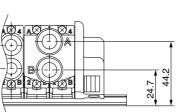


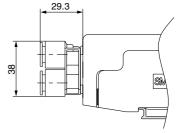
To drive a large bore cylinder, two valve stations are operated simultaneously to double the air flow. This fitting is used on the cylinder ports in this situation. Available sizes are ø10 and ø3/8" One-touch fittings.

- * 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 One-touch fitting)
- SQ2131-5 C0 2 sets
- * SSQ2000- 52A C10 1 set

lower.

C10: One-touch fitting for ø10 N11: One-touch fitting for ø3/8"

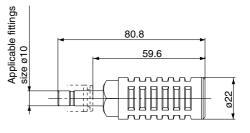




Silencer (For EXH port)

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



VQC

SQ

VQ0

VQ4

VQ5

VQZ

Manifold Option Parts for SQ1000/SQ2000

Special Wiring Specifications

In the internal wiring of F kit, P kit, J kit, T kit and S 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. Also, specify wiring for spare connectors.

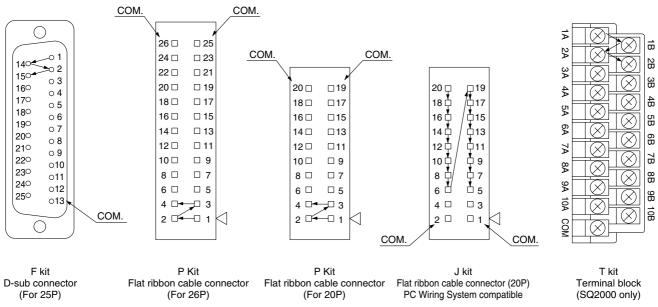
(Up to two spare connectors are included depending on the remaining number of connector pins. When the wiring for the spare connectors is not specified, they will be wired according to "Spare Connector Wiring" on page 2-3-57.)

Example) SS5Q13 - 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.



For S kit (serial transmission kit), refer to pages 2-3-20 and 2-3-40.

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	T kit (Terminal block) SQ2000 only*	S kit (Serial)
Туре	FD□ 25P	PD□ 26P	PDC 20P	JD0 20P	TD0	SD□
Max. points	24 points	24 points	18 points	16 points	20 points	16 points

Note) Maximum stations ---- SQ1000: 24 stations SQ2000: 16 stations

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) SS5Q13-08FD0-D09BNK

8 station manifold

 Option symbols (alphabetically)

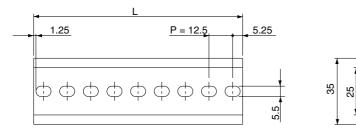
DIN rail for 9 stations

Ordering DIN rail only

DIN rail part number



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

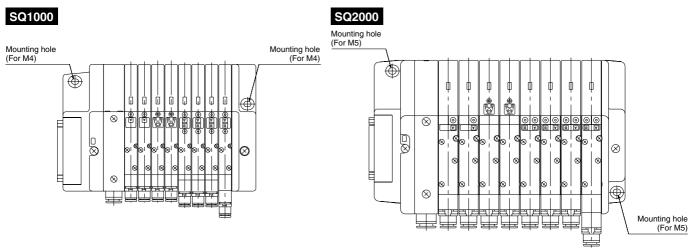


L Dimens	ion								L =	12.5 x n + 10.5
No.	1	2	3	4	5	6	7	8	9	10
L dimension	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5
No.	11	12	13	14	15	16	17	18	19	20
L dimension	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5
No.	21	22	23	24	25	26	27	28	29	30
L dimension	273	285.5	298	310.5	323	335.5	348	360.5	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

7.5

Direct Mounting Style (-E)

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.



SMC

VQC
SQ
VQ0
VQ4
VQ5
VQZ
VQD

Manifold Option for SQ1000/SQ2000

Negative Common Specifications

The following valve part numbers are for negative common specifications. Manifold part numbers are the same as the standard except L kit. Also, negative COM specifications are not available for the S kit.

• How to order negative COM valves (Example)

SQ1130 N -5-C6

Negative common specifications

How to order negative COM manifold (Example)

SS5Q13 - 08 LD1 N - D N

Kit type

Stations •

Option

DIN rail mounting style

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.

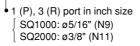
• How to order valves (Example)

S	SQ1130- 5 - 🖓 🕅 7										
	Por	t location •	•Cylinder	port							
	Nil	Side ported	Syn	Symbol			N7	N9			
	L	Top ported	Applicable tub	Applicable tubing O.D. (Inch)			ø1/4"	ø5/16"			
			4(A),	SQ1000				—			
			2(B) port	SQ2000	_	•					

• How to order manifold (Example)

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

SS5Q13-08 FD0-DN-00T



How to Add Manifold Stations for SQ1000/SQ2000

1. Using Spare Connector to Add Stations

As shown in the table below, wiring specifications for spare connectors are based on to the remaining number of connector pins (remaining number of pins against the maximum number of solenoids for each kit.) The following steps are for using spare connectors to add stations.

Spare Connector Wiring

Remaining connector pins	4 pins or more	3 pins	2 pins	1 pin	0 pin	VQC
Spare connector wiring 2	2 for double wiring	1 for double wiring (on the low no. station side) 1 for single wiring	1 for double wiring	1 for single wiring	None	SQ

What to order

• Valves with manifold block (refer to pages 2-3-7 and 2-3-25) or the manifold blocks (Refer to page 2-3-58)>

Steps for adding stations

(1) Loosen the clamp screw on the U side end plate and open the manifold.

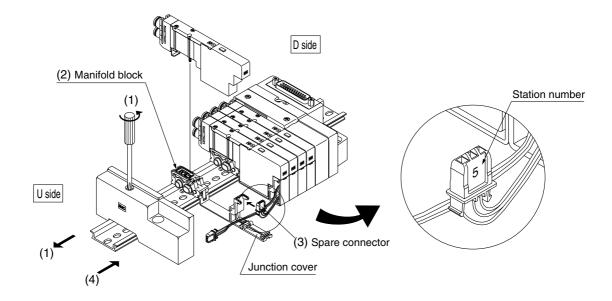
(2) Mount the manifold block to be added.

(3) Open the junction cover and attach the spare connector. Match the station position of the added station and the spare connector station number.

(4) 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)

Note 1) Order a manifold block with lead wire for the L kit because a spare connector is not included with the kit. (Refer to page 2-3-58.)

Note 2) Do not let the lead wires get caught between manifolds, or when closing the junction cover.



VQ0

VQ4

VQ5

VQZ

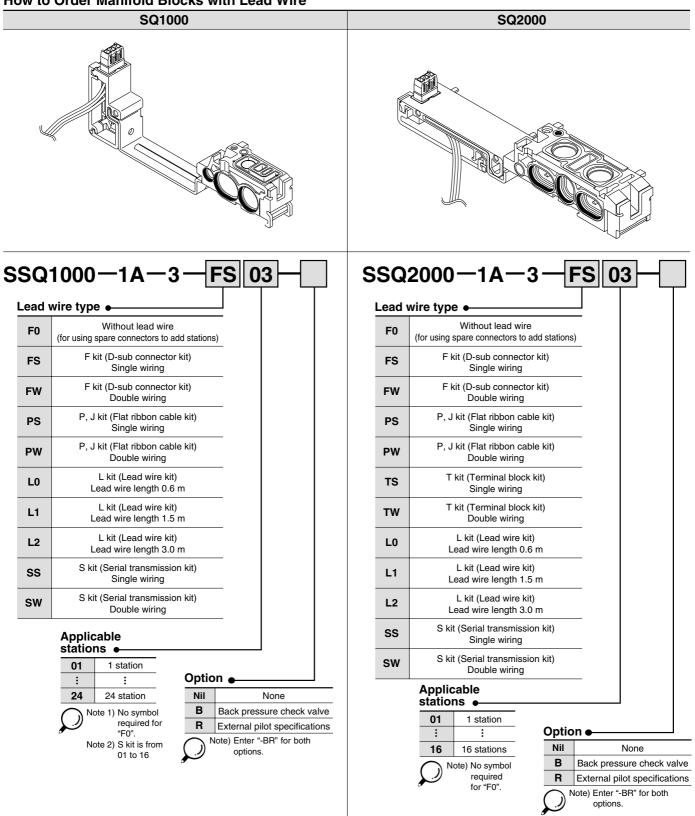
VQD

How to Add Manifold Stations for SQ1000/SQ2000

2. Adding Stations Without Required Spare Connectors

Spare connectors for 2 stations are initially included. However, to add 3 or more stations, order manifold blocks with lead wire in the tables below.

How to Order Manifold Blocks with Lead Wire

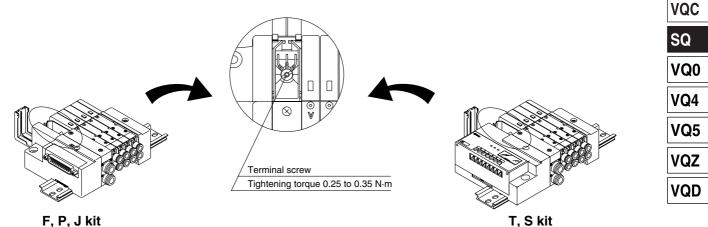


3. Connection Method (Refer to page 2-3-57 regarding the steps for adding stations to a manifold block.)

Connect the round terminal of the red lead wire to the common terminal inside the junction cover.

(1) Connecting common terminals

Connect lead wire assemblies included with manifold blocks as follows.

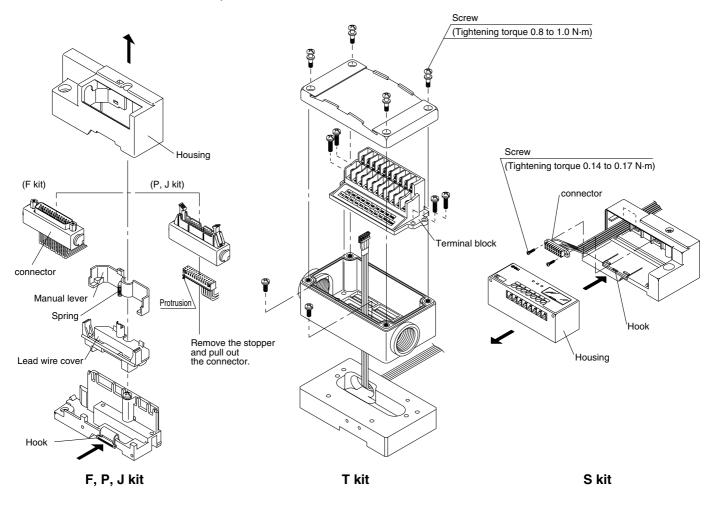




(2) Pulling out connector

Pull out the connector to connect the lead wire.

- For F, P, and J kits, pull out and remove the housing while pressing down hard on the hook with a flat head screwdriver, etc. Remove the manual lever and lead wire cover, and pull out the connector.
- For T kits, remove the screws and pull out the terminal block.
- For S kits, remove the screws and pull out the connector.



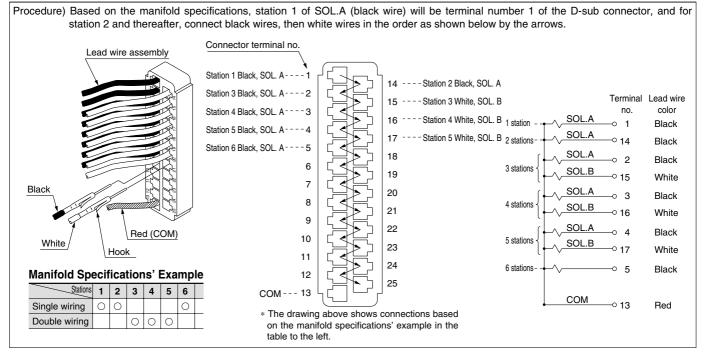
How to Add Manifold Stations for SQ1000/SQ2000

(3) Connect the black and white lead wire pins to the positions shown below in accordance with each kit.

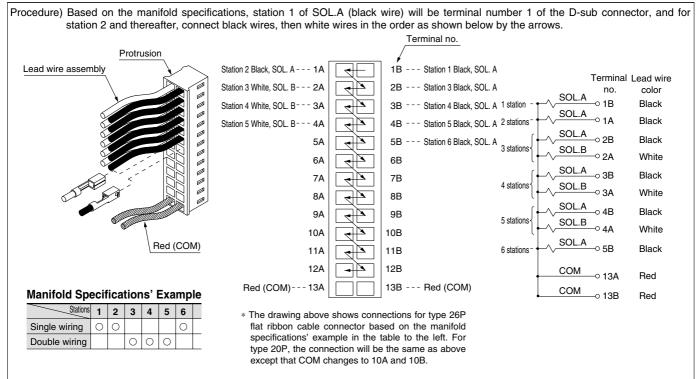
Caution 1. After inserting the pin, confirm that the pin hook is locked by lightly pulling the lead wire.

2. Do not pull the lead wire forcefully when connecting. Also, take care that lead wires do not get caught between manifolds or when closing the junction cover.

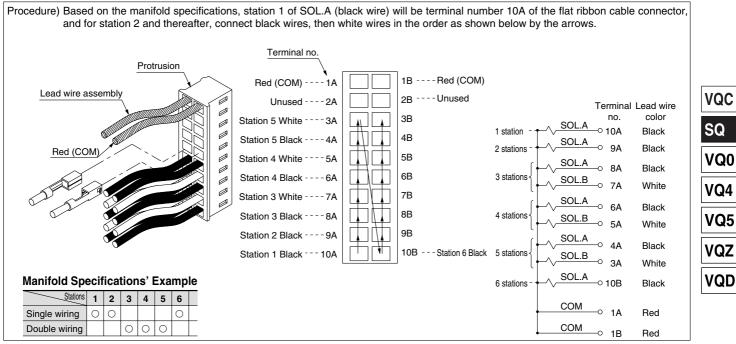
Wiring (F kit: D-sub connector kit)



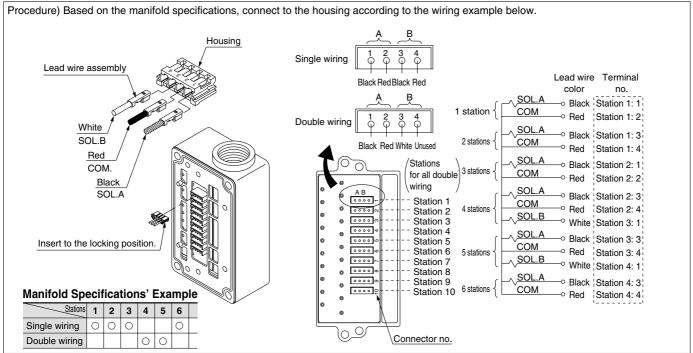
Wiring (P kit: Flat ribbon cable kit)



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

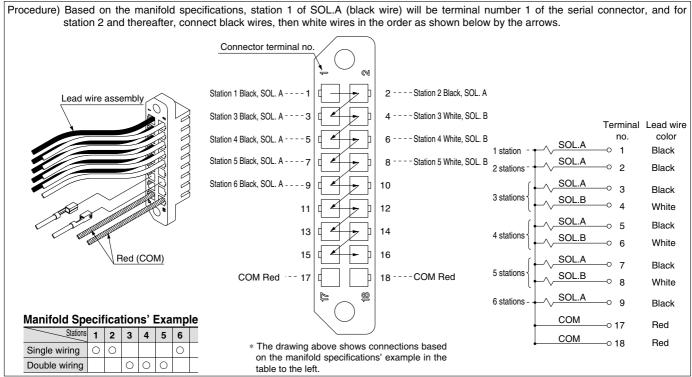


Wiring (T kit: Terminal block kit)



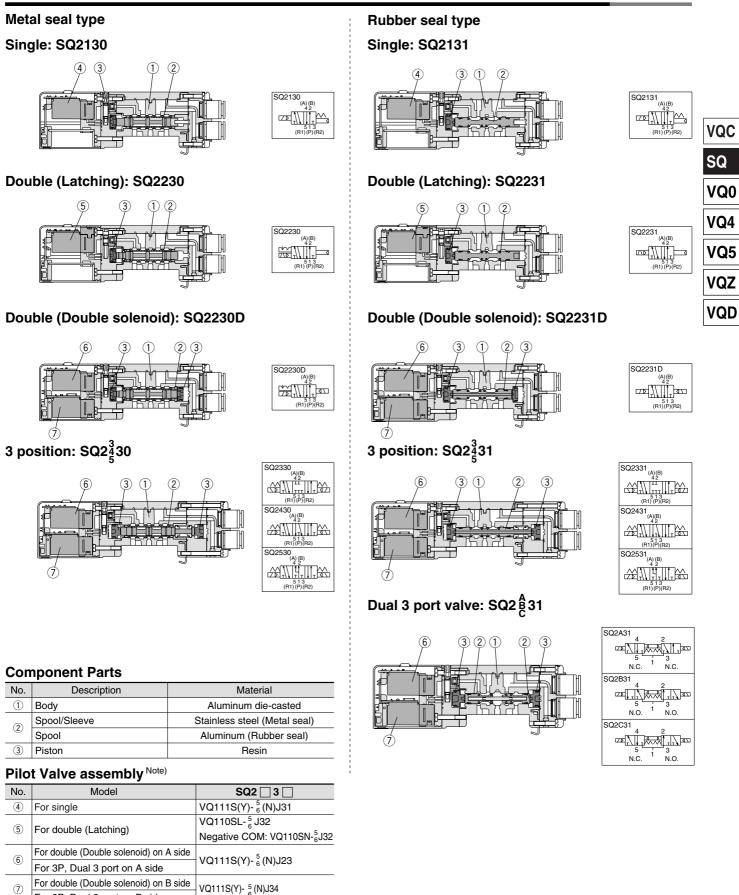
How to Add Manifold Stations for SQ1000/SQ2000

Wiring (S kit: Serial transmission kit)



Plug-in Unit Series SQ1000/2000

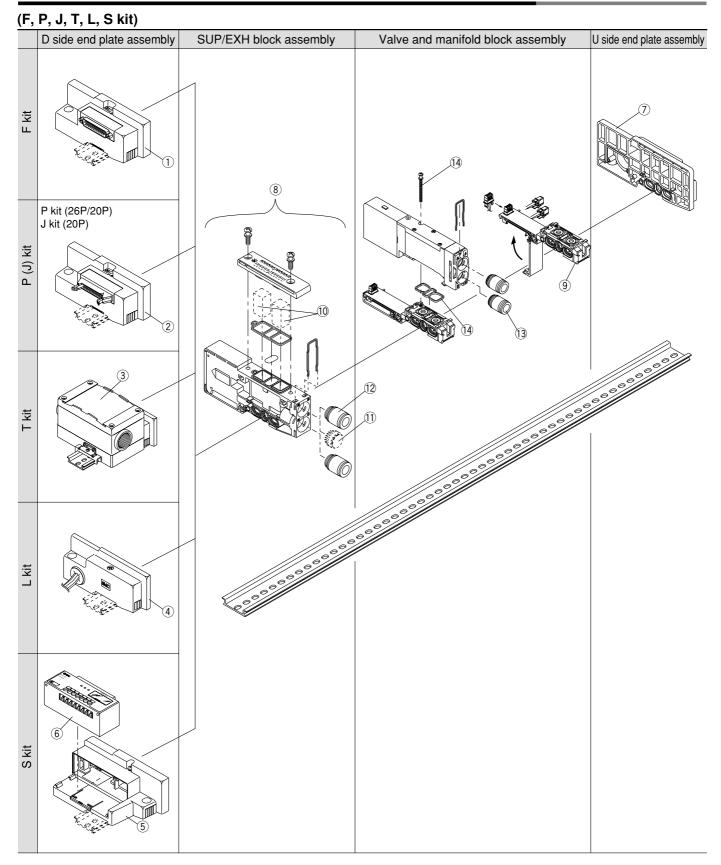
Construction: Series SQ2000 Plug-in Type Main Parts and Pilot Valve Assembly



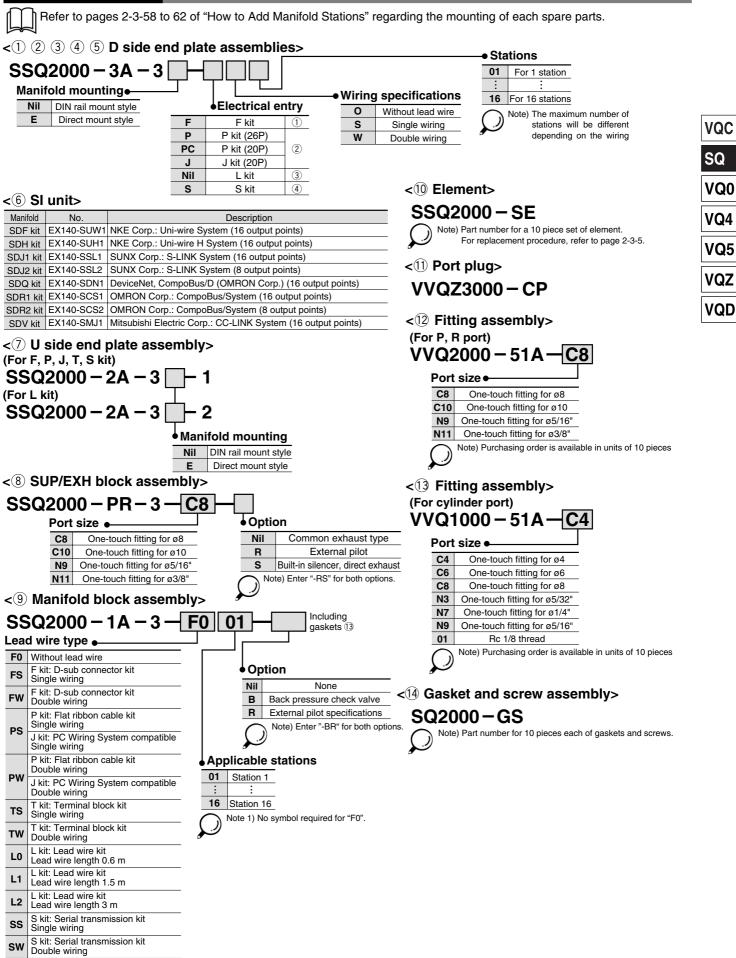
For 3P, Dual 3 port on B side Note) Nil: Standard N : Negative COM specifications Y : Low wattage specifications



Exploded View of Manifold: SQ2000 (Plug-in Type Manifold) SS5Q23



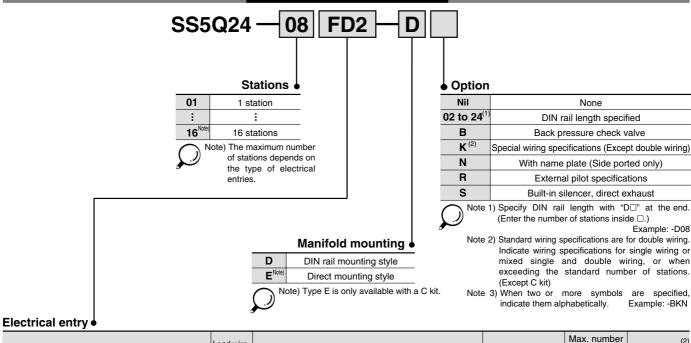
Manifold Spare Parts





Series SQ2000 **Plug Lead Unit**

How to Order Manifold

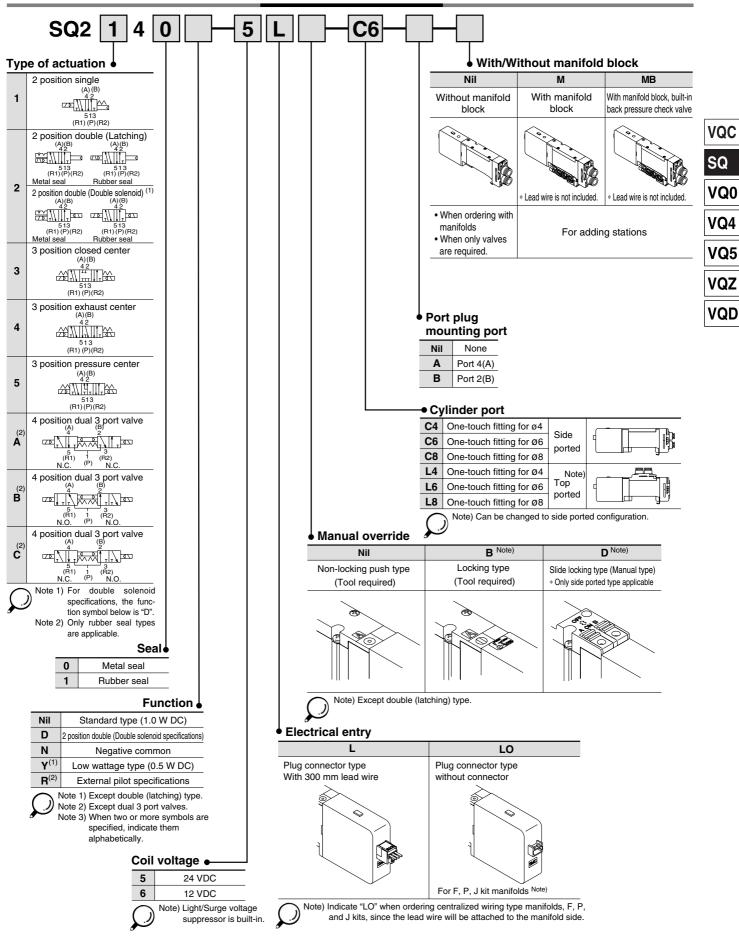


Kit type		Lead wire connector location	Cable specifications	Stations	Max. number of stations for special wiring specifications	(2) Max. number of solenoids
F kit	FD0		D-sub connector (25P) kit, without cable			
	FD1		D-sub connector (25P) kit, with 1.5 m cable	1 to 12 stations	16 stations	24
D side	FD2	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	с	_	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.)

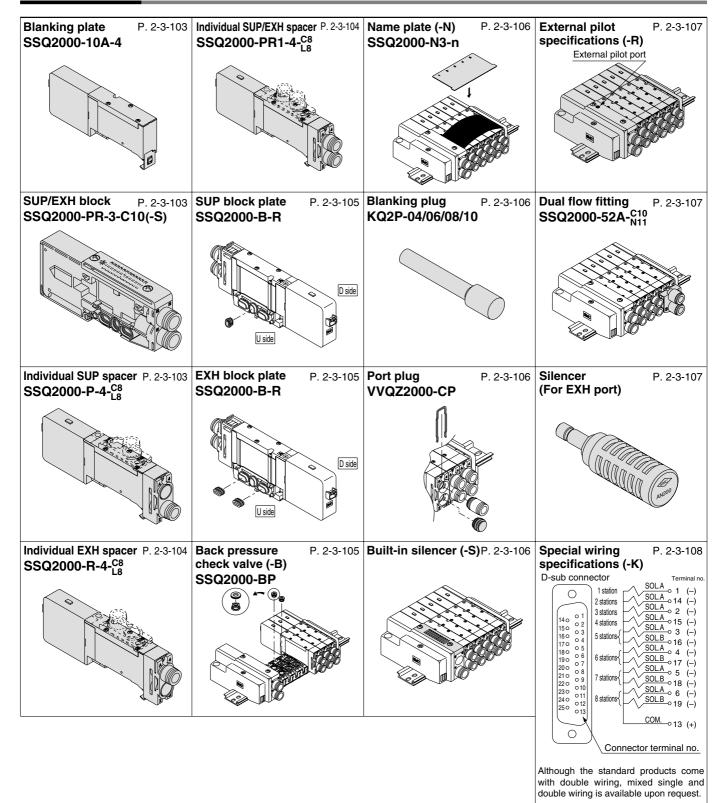
Plug Lead Unit Series SQ2000

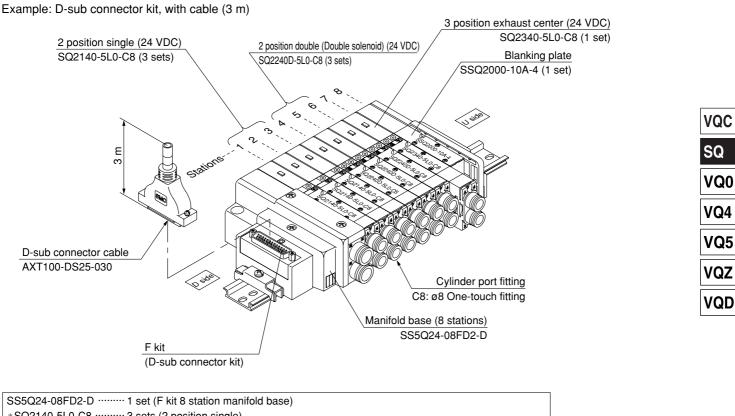
How to Order Valves



SMC

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.

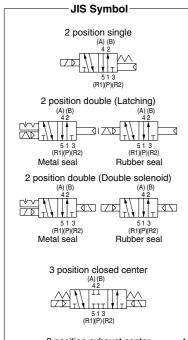
Valve Specifications

Model

		Number of					Flow chai	acteristics			Response	time (ms) ⁽²⁾	
Series		Number of solenoids	Model		$1 \rightarrow 4$	$/2 (P \rightarrow A)$	/B)	$4/2 \rightarrow 5/3 (A/B \rightarrow R1/R2)$			Standard:	Low	Weight
					C [dm3/(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv	1 W	wattage	(g)
		Single	Metal seal	SQ2140	2.2	0.17	0.51	2.4	0.14	0.57	20 or less	26 or less	145
	_	Single	Rubber seal	SQ2141	2.3	0.17	0.51	3.1	0.18	0.71	24 or less	31 or less	140
	position	Double	Metal seal	SQ2240	2.2	0.17	0.51	2.4	0.14	0.57	26 or less	_	145
		(Latching)	Rubber seal	SQ2241	2.3	0.17	0.51	3.1	0.18	0.71	31 or less		140
	N	Biduod	Metal seal	SQ2240D	2.2	0.17	0.51	2.4	0.14	0.57	15 or less	20 or less	160
	(Double solenoid)		Rubber seal	SQ2241D	2.3	0.17	0.51	3.1	0.18	0.71	20 or less	26 or less	155
00000		Closed	Metal seal	SQ2340	1.9	0.17	0.46	2.1	0.15	0.47	34 or less	44 or less	180
SQ2000	Ę	center	Rubber seal	SQ2341	1.9	0.17	0.46	1.8	0.29	0.45	34 or less	44 or less	175
	position	Exhaust	Metal seal	SQ2440	1.9	0.17	0.46	2.4	0.14	0.55	34 or less	44 or less	180
	3 po	center	Rubber seal	SQ2441	1.9	0.17	0.46	3.1	0.14	0.58	34 or less	44 or less	175
		Pressure	Metal seal	SQ2540	2.3	0.17	0.51	2.1	0.18	0.47	34 or less	44 or less	180
		center	Rubber seal	SQ2541	2.5	0.17	0.56	1.8	0.30	0.47	34 or less	44 or less	175
	4 position	Dual 3 port valve	Rubber seal	SQ2 ^A _c 41	1.5	0.17	0.40	1.5	0.17	0.40	34 or less	44 or less	155

Note 1) Values for the top ported cylinder port size of C8. The side ported type will be about 10% less. Note 2) Based on JIS B 8375-1981. (Values with a supply pressure of 0.5 MPa and light/surge voltage suppressor. Values fluctuate depending on the pressure and air quality.)



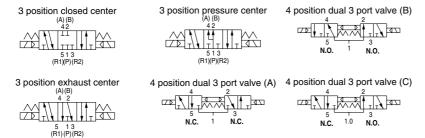


Specifications

sheeu	icati	0115						
	Valv	e construction		Metal seal	Rubber seal			
	Flui	d		Air/Ine	rt gas			
	Max	imum operating	pressure	0.7 MPa				
~	sure	Single		0.1 MPa	0.15 MPa			
ions	brest	Double (Latchi	ng)	0.18 MPa	0.18 MPa			
ficat	Min. operating pressure	Double (Double	e solenoid)	0.1 MPa	0.1 MPa			
oeci	i. ope	3 position		0.1 MPa	0.2 MPa			
Valve specifications	Mir	4 position		—	0.15 MPa			
Valv	Amb	pient and fluid te	mperature	-10 to 50°C ⁽¹⁾				
	Lub	rication		Not required				
	Pilo	t valve manual c	override	Push type (Tool required)/L Slide locking typ	ocking type (Tool required) e (Manual type)			
	Vibr	ation/Impact res	sistance ⁽²⁾	30/150 m/s ²				
	Prot	ection structure		Dust tight				
'n	Coil	rated voltage		12 VDC, 24 VDC				
tions	Allo	wable voltage fl	uctuation	±10% of rat	ted voltage			
Solenoid specifications	Coil	insulation type		Equivalent	to class B			
peci	Powe	r consumption	24 VDC	1 W DC (42 mA), 0.	5 W DC (21 mA) (3)			
ഗഗ	(Curre	ent)	12 VDC	1 W DC (83 mA), 0.5 W DC (42 mA) (3)				
Note	Note 1) Use dry air to prevent condensation when operating at low temperatures. Note 2) Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period) Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at armature in both energized and de-							

energized states every once for each condition. (Values at the initial period)

Note 3) Values for the low wattage (0.5 W) specifications.



Plug Lead Unit Series SQ2000

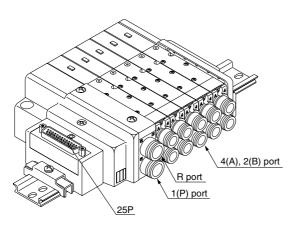
Manifold Specifications

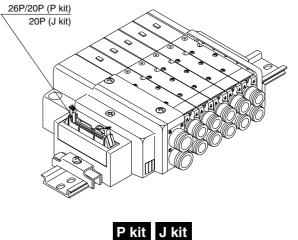
Base model Porting specifications		Applicable solenoid	Type of connection		(3) Applicable	(4) 5 station weight	(4) 1 station weight		
Base model	1(P), 3(R)	Port location	4(A), 2(B) Port size	valve			stations	(g)	(g)
	C10	Side	C4 (For ø4)		F kit: D-sub connector		1 to 12 stations	580	35
	(For ø10)	Side	C6 (For ø6) C8 (For ø8)		P kit: Flat ribbon cable	26P	1 to 12 stations	580	35
SS5Q24-	Option			SQ2_40		20P	1 to 9 stations	500	
	Built-in silencer, direct exhaust	Top ⁽²⁾	L4 (For ø4)	SQ2_41	J kit: Flat ribbon cable PC Wiring System compatible		1 to 8 stations	580	35
	Uneci exhausiy	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.

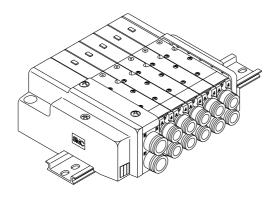
Note 2) Can be changed to side ported configuration.

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

Kit (D-sub Connector kit)

- Simplification and labor savings for wiring work can be achieved by using a D-sub connector for the electrical connection.
- Using connector for flat ribbon cable (25P) 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.

D-sub Connector (25 pins)

25

SMC

55

47.04

AXT100-DS25-015

manifolds

44

N

Cable

length (L)

3 m

5 m

C-24308

Electric

Characteristics

Item

Conductor resistance

Ω/km, 20°C

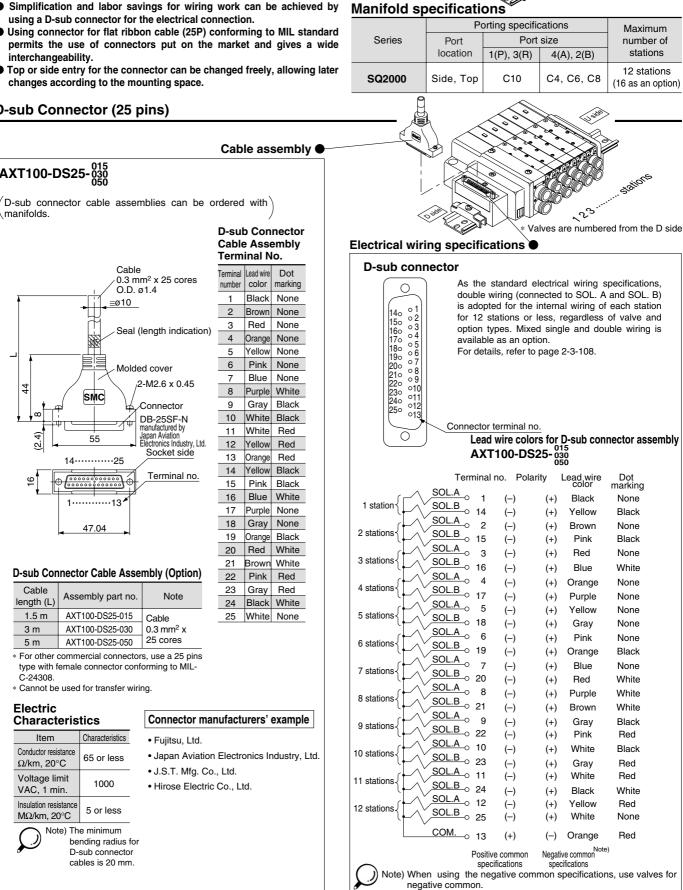
Voltage limit

VAC, 1 min.

Insulation resistance

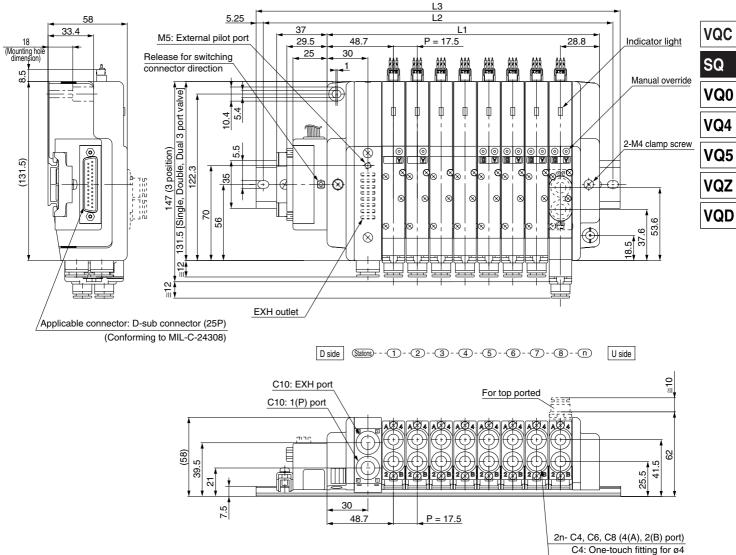
MΩ/km, 20°C

1.5 m



2-3-90

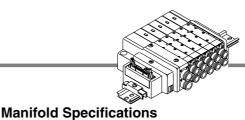




C6: One-touch fitting for ø6

C8: One-touch fitting for ø8

Dimensions Formula: L1 = 17.5n + 60 n: Stations (Maximum 16 stations)																
L	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



Porting specifications

Port size

Series

Port

Maximum

number of

• 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.

Red

(15.6)

26P

AXT100-FC26-1

AXT100-FC26-2

AXT100-FC26-3

relief conforming to MIL-C-83503.

* Cannot be used for transfer wiring

Japan Aviation Electronics Industry, Ltd.

· Hirose Electric Co., Ltd

Sumitomo 3M Limited

• J.S.T. Mfg. Co., Ltd.

• Oki Electric Cable Co,. Ltd.

• Fujitsu Limited

Flat Ribbon Cable (26 pins, 20 pins)

Terminal no.

AXT100-FC 20 - 2

6

Cable

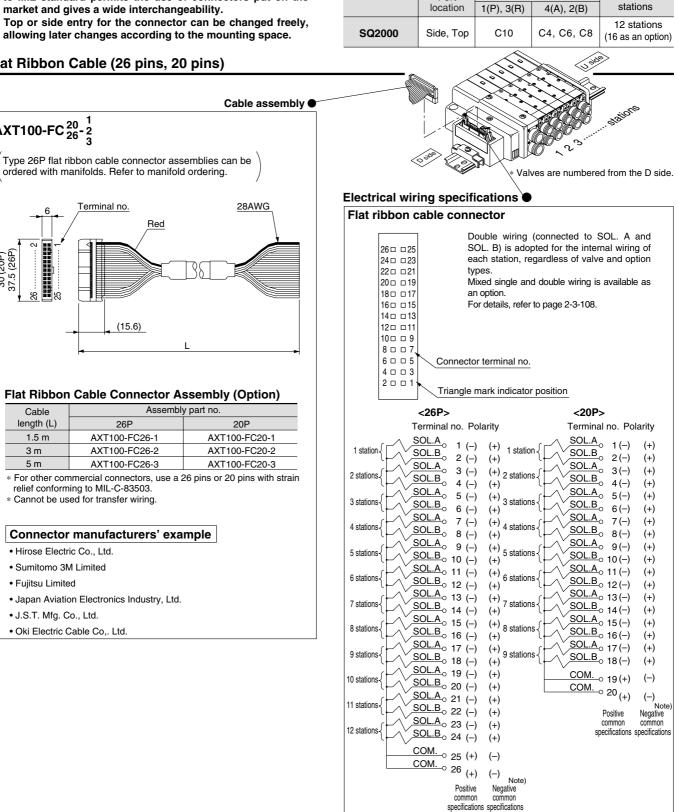
length (L

1.5 m

3 m

5 m

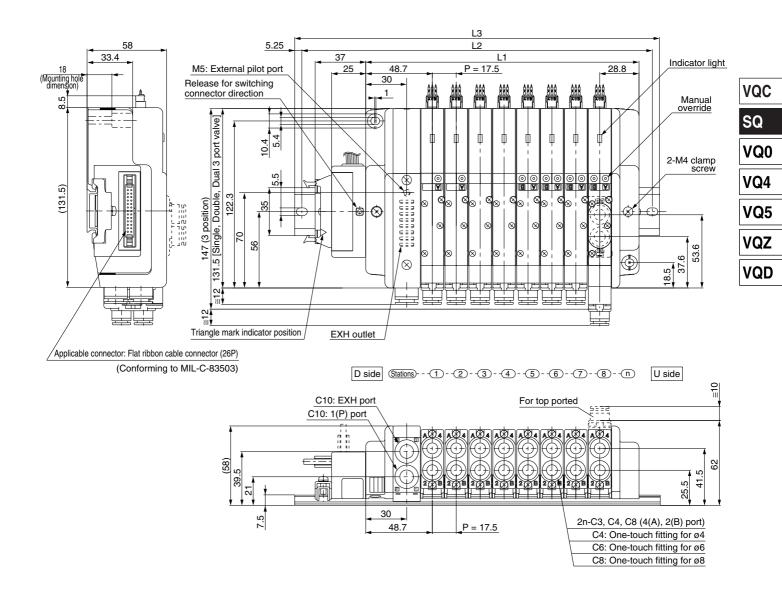
30 (20P) 37.5 (26P



Note) When using the negative common specifications, use valves for

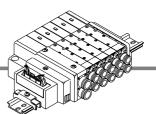
negative common.





D	Dimensions Formula: L1 = 17.5n + 60 n: Stations (Maximum 16 station										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

Kit (PC wiring system compatible flat ribbon cable Kit)

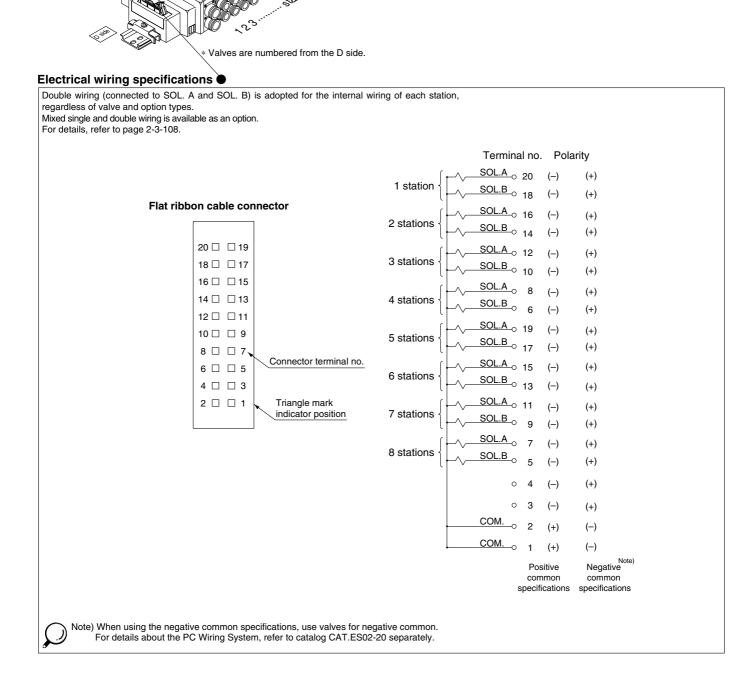


PC Wiring System compatible.

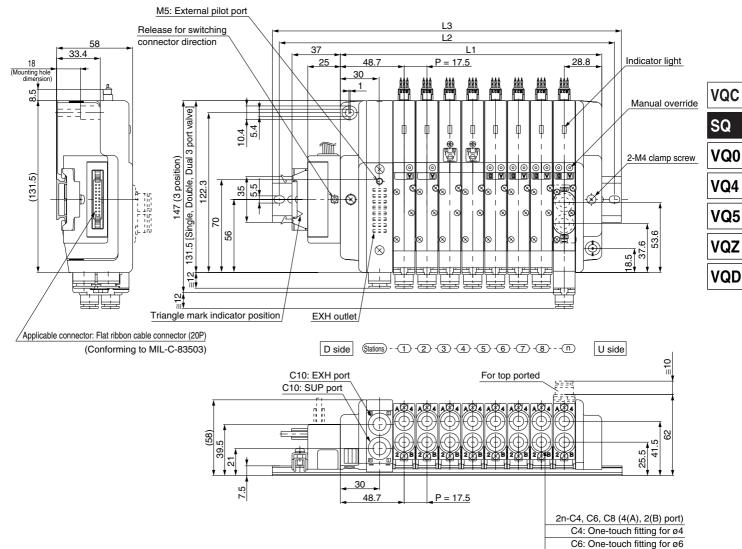
Manifold specifications

- 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.

- 2									
		Poi	rting specifica	ations	Maximum				
	Series	Port	Port	number of					
		location 1(P), 3		4(A), 2(B)	stations				
	SQ2000	Side, Top	C10	C4, C6, C8	8 stations (16 as an option)				



SMC



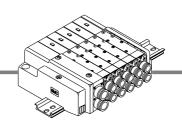
00 0 I I	(1) () ()
C8: One-touch	titting for Ø8

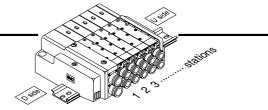
Dime	Dimensions Formula: L1 = 17.5n + 60 n: Stations (Maximum 16 stations)																
L	n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1		77.5	95	112.5	130	147.5	165	182.5	200	217.5	235	252.5	270	287.5	305	322.5	340
L2	-	137.5	162.5	175	187.5	212.5	225	250	262.5	275	300	312.5	337.5	350	362.5	387.5	400
L3	1	148	173	185.5	198	223	235.5	260.5	273	285.5	310.5	323	348	360.5	373	398	410.5

C Kit (Connector)

Standard with lead wires connected to each valve individually.
 Manifold Specifications

	Po	Maximum			
Series	Port	Port	number of		
	location	1(P), 3(R)	4(A), 2(B)	stations	
SQ2000	Side, Top	C10	C4, C6, C8	16 stations	





Wiring Specifications: Positive COM Specifications Since lead wires are connected to the valves as shown below, connect each wire to the power supply. Single solenoid Lead wire color SOL.A (-) Black -O COM.(+) Red Black: A side solenoid (-) - Red: COM (+) Double solenoid Lead wire color SOL.A O (-) Black -o COM. (+) Red <u>SOL.B</u> (-) White Black: A side solenoid (-) - Red: COM (+) \supset -White: B side solenoid (-) • Plug connector lead wire length The lead wire length of the valves with lead wire is 300 mm. When

ordering a lead wire length of 600 mm or longer, list the part numbers for the valve without connector and the connector assembly. Example) For lead wire length of 1000 mm: SQ1140-5LO-C6---3 pcs. AXT661-14AL-10---3 pcs.

Connector Assembly Part No.

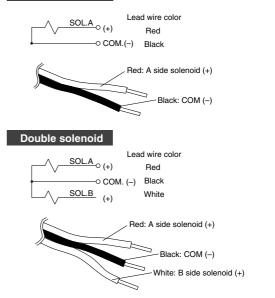
Lead wire length	Single solenoid	Double solenoid
Socket only (3 pcs.)	AXT66	1-12AL
300 mm	AXT661-14AL	AXT661-13AL
600 mm	AXT661-14AL-6	AXT661-13AL-6
1000 mm	AXT661-14AL-10	AXT661-13AL-10
2000 mm	AXT661-14AL-20	AXT661-13AL-20
3000 mm	AXT661-14AL-30	AXT661-13AL-30

* Valves are numbered from the D side.

Wiring Specifications: Negative COM Specifications (Option)

Since lead wires are connected to the valves as shown below, connect each wire to the power supply.

Single solenoid



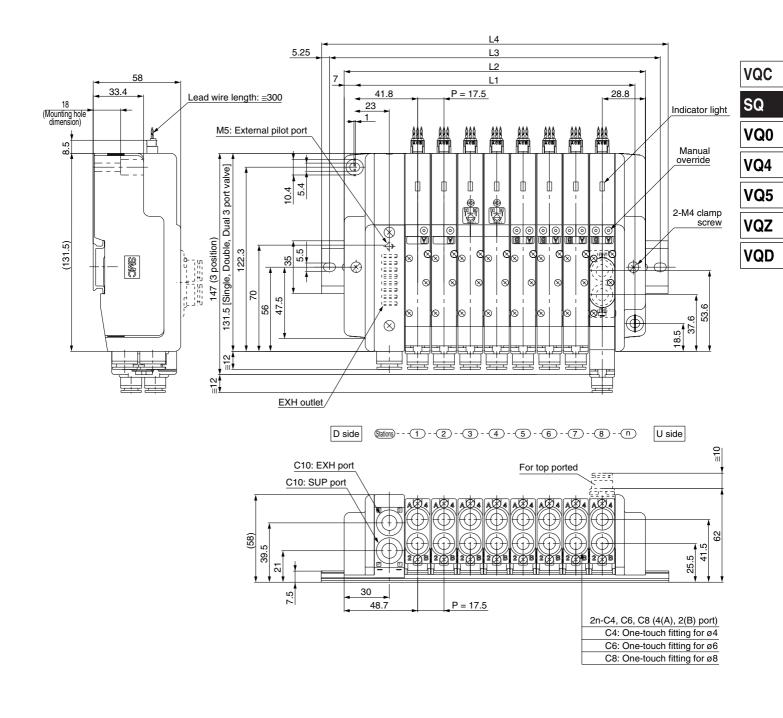
Plug connector lead wire length The lead wire length of the valves with lead

The lead wire length of the valves with lead wire is 300 mm. When ordering a lead wire length of 600 mm or longer, list the part numbers for the valve without connector and the connector assembly. Example) For lead wire length of 1000 mm: SQ1140-5LO-C6...3 pcs. AXT661-14ANL-10...3 pcs.

Connector Assembly Part no.

SMC

Lead wire length	Single solenoid	Double solenoid					
Socket only (3 pcs.)	AXT661-12AL						
300 mm	AXT661-14ANL	AXT661-13ANL					
600 mm	AXT661-14ANL-6	AXT661-13ANL-6					
1000 mm	AXT661-14ANL-10	AXT661-13ANL-10					
2000 mm	AXT661-14ANL-20	AXT661-13ANL-20					
3000 mm	AXT661-14ANL-30	AXT661-13ANL-30					
Note) When using the negative common specifications, use valves for negative common.							



Dimensions Formula: L1 = 17.5n + 46, L2 = 17.5n + 60 n: Stations					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	63.5	81	98.5	116	133.5	151	168.5	186	203.5	221	238.5	256	273.5	291	308.5	326
	L2	77.5	95	112.5	130	147.5	165	182.5	200	217.5	235	252.5	270	287.5	305	322.5	340
	L3	100	125	137.5	150	175	187.5	212.5	225	237.5	262.5	275	300	312.5	325	350	362.5
	L4	110.5	135.5	148	160.5	185.5	198	223	235.5	248	273	285.5	310.5	323	335.5	360.5	373

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

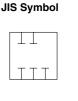
Blanking plate

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

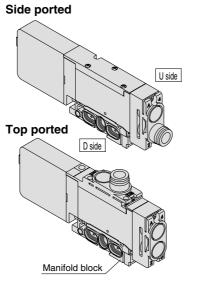
This is used as a supply port for different pressures when using different pressures in the same manifold (for one station).

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

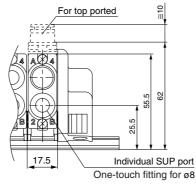
* Specify the spacer mounting position and SUP passage shut off positions on the manifold specification sheet. Two shut off positions are required per unit.

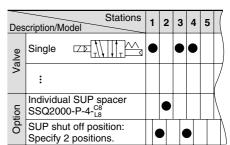
(Two pieces of SUP block plate that shut off the supply pressure are included with the individual SUP spacer, therefore, it is not necessary to order them separately.)

- * 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

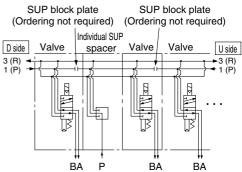
Valve SUP/EXH block U side

PR

BA

•

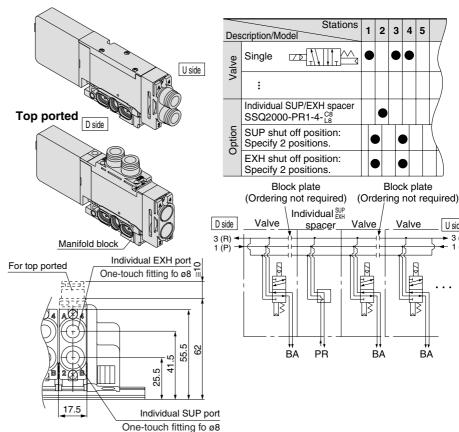
3 (R) 1 (P)



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

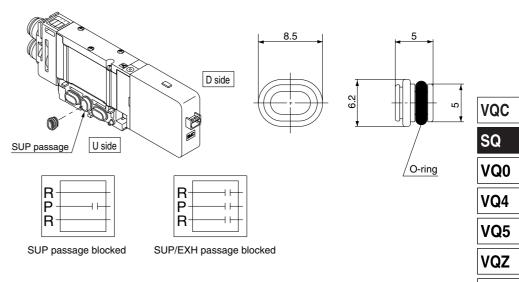
When supplying two different pressures, high and low, to one manifold, this is used between stations with different pressures. Also, it is used with an individual SUP spacer to shut off the air supply.

* 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

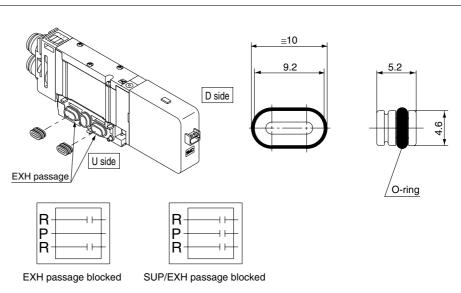
When the exhaust from a valve interferes with other stations in the circuit, this is used between stations to separate exhausts. Also, it is used with an individual EXH spacer to shut off the exhaust of individual valves.

* 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).

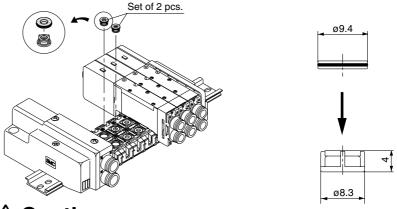
* Shut off labels are applied when EXH block plates are ordered with manifolds.



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

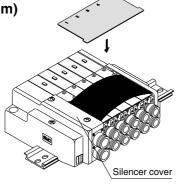
Name plate [-N]

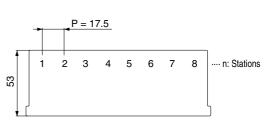
SSQ2000-N3- Stations (1 to maximum)

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

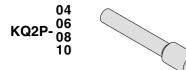
To install, bend the plate slightly as shown and insert into the slots on the end plate side. Also, the plate is difficult to bend for manifolds with only a few stations, therefore, remove the silencer cover to install it.

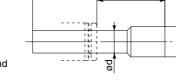
* When ordering with manifolds, add "-N" at the end of the manifold number.





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.

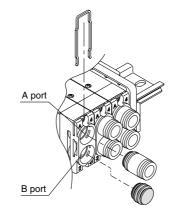
* Add "A" or "B" at the end of the valve part number when ordering with valves.

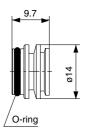
Example) SQ2141-5L-C8-A (N.O. specifications)

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

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

(B port plug with manifold block)





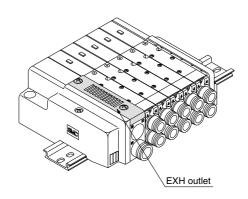
Direct EXH outlet, built-in silencer [-S]

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

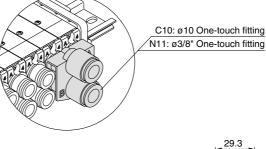
Dual flow fitting

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.

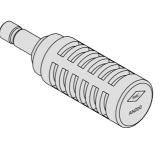
- * When ordering with valves, specify the valve part number without One-touch fitting and list without One-touch fitting and list the dual flow fitting part number.
- Example) Valve part number (without Onetouch fitting)

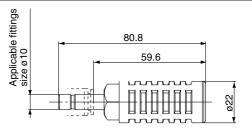


24.7

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

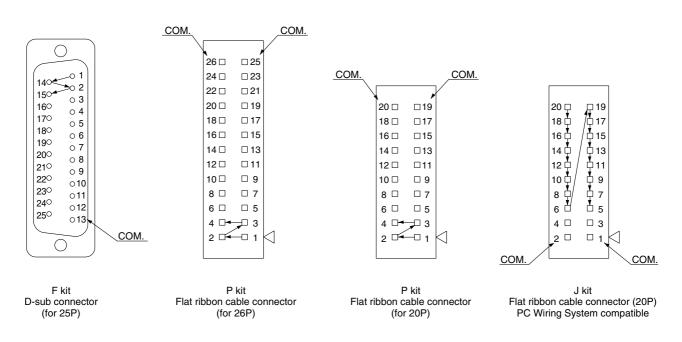
Indicate option symbol "-K" in the manifold part number and be sure to specify station positions for single or double wiring on the manifold specification sheet

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 points						
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

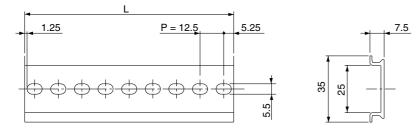
8 station manifold

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.

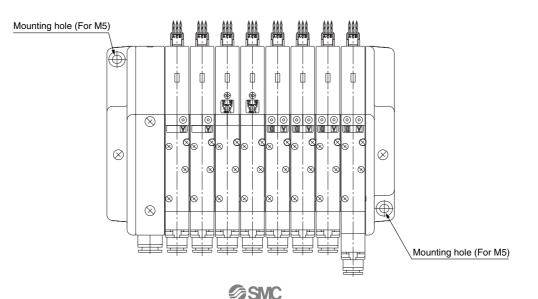


I Dimension

L Dimensi	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-

Port 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)

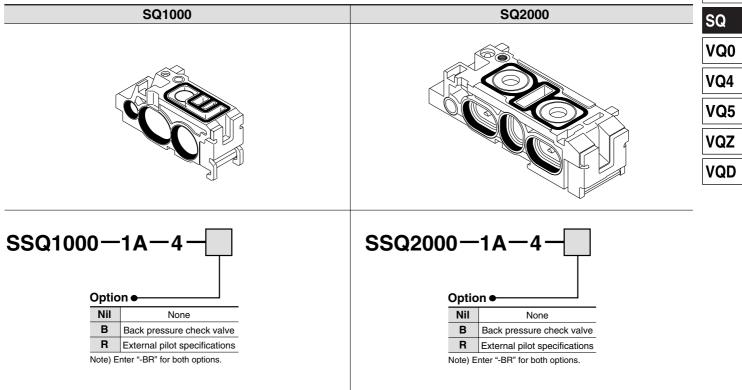
How to Add Manifold Stations for SQ1000/SQ2000

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)	
Sideote Sindo & Si		
Sideote Sindo & Si		
$\frac{1}{100}$ • For double wiring SSQ1000 - 41A - F - 350 $\frac{1}{100}$ • For double wiring SSQ1000 - 41A - F - 350 $\frac{1}{100}$ • For double wiring SSQ1000 - 41A - P - 250 Station 1 370 Station 2 500 Station 1 400 Station 1 400 Station 2 500 Station 1 400 Station 1 510 Station 2 550 Station 1 510 Station 2 550 Station 1 510 Station 3 10 5tation 5 500 Station 1 510 Station 7 200 Station 7	L	Stations Symbol (L dimension) Stations Symbol (L dimension
● For double wiring SSQ1000 - 41A - F - 350 Station 1 470 ● Lot in the initiation of the initiatine of the initiatine of the initiatic of the initiati		Station 2 190 Station 14 430
 ■ For double wiring SSQ1000 - 41A - F - 350 ■ For double wiring SSQ1000 - 41A - F - 350 ■ For double wiring Staton 12 570 ■ Staton 12 580 ■ Staton 12 580		Station 3 210 Station 15 450
• For double wiring SSQ1000 - 41A - F - 350 $I = 10^{10}$ $I = 10^{10}$ I		Station 4 230 Station 16 470
 ● For double wiring SSQ1000 - 41A - F - 350		
$SSQ1000 - 41A - F - 350$ $SSQ1000 - 41A - F - 350$ $Siation 8 310 8 310 10 550$ $Station 1 250 8 1ation 2 570$ $Station 1 250 8 1ation 2 590$ $Station 1 2 390 8 1ation 2 610$ $Station 1 2 390 8 1ation 2 630$ $Station 1 3 410$ $Station 1 2 390 8 1ation 2 630$ $Station 1 3 410$ $SSQ1000 - 40A - P - 250$ $\frac{L}{100}$	• • · · · ·	Station 6 270 Station 18 510
L Station 9 330 Station 22 590 Station 10 250 Station 22 590 Station 11 370 Station 24 630 Station 13 410 Station 14 Station 24 Station 14 Station 13 410 Station 14 Station 24 Station 14 Station 14 Station 24 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14	For double wiring	Station 7 290 Station 19 530
L Station 9 330 Station 22 590 Station 10 250 Station 22 590 Station 11 370 Station 24 630 Station 13 410 Station 14 Station 24 Station 14 Station 13 410 Station 14 Station 24 Station 14 Station 14 Station 24 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14 Station 14	SSQ1000 - 41A - F - 350	Station 8 310 Station 20 550
$\frac{1}{10}$		Station 9 330 Station 21 570
Station 11 370 Station 23 610 Station 12 390 Station 24 630 Station 13 410 Flat ribbon cable kit (P kit), PC Wiring System compatible (J kit) • For single wiring SSQ1000 - 40A - P - 250 \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow		Station 10 250 Station 22 590
Station 13 410 Station 13 410	L	Station 11 370 Station 23 610
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 Station 8 310 Station 2 550 Station 1 430 Station 1 490 Station 2 70 Station 16 510 Station 1 490 Station 2 70 Station 16 510 Station 2 70 Station 16 510 Station 2 70 Station 16 510 Station 2 70 Station 17 490 Station 3 310 Station 2 550 Station 1 30 Station 2 70 Station 17 490 Station 3 310 Station 2 550 Station 1 30 Station 2 70 Station 17 490 Station 2 70 Station 17 490 Station 3 310 Station 2 550 Station 1 30 Station 2 70 Station 1 50 Station 2 70 Station 2 550 Station 2 30 Station 2 30 Station 2 30 Station 2 30 Station 2 30 Station 2 30 Station 2 550 Station 2 30 Station 2 30 Station 2 550 Station 2 30 Station 2 550 Station 2 30 Station 2 550 Station 2 30 Station 2 550 Station 2 550 Station 2 30 Station 2 550 Station 2 570 Station 2 570 S		Station 12 390 Station 24 630
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		Station 13 410
 Stations Symbol (L dimension) Station 14 Station 14 Station 15 Station 15 Station 16 Station 16 Station 17 Station 17 Station 18 Station 19 Station 19 Station 19 Station 20 Station 21 Station 20 	• For single wiring SSQ1000—40A—P—250	
Station 3 210 Station 15 450 Station 4 230 Station 16 470 Station 5 250 Station 17 490 Station 6 270 Station 18 510 Station 7 290 Station 19 530 Station 8 310 Station 20 550 Station 9 330 Station 21 570	└	Stations Symbol (L dimension) Stations Symbol (L dimension)
• For double wiring SSQ1000 - 41A - P - 350 Station 1 - 350 Station 2 - 10 - 350 Station 1 - 100 Station 2 - 10 - 350 Station 4 - 230 - 350 Station 1 - 490 Station 5 - 250 - 3510 Station 1 - 490 Station 6 - 270 - 3510 Station 1 - 530 Station 2 - 550 Station 3 - 550 Station 2 - 550		Station 2 190 Station 14 430
Station 4 230 Station 16 470 Station 5 250 Station 17 490 Station 6 270 Station 18 510 Station 7 290 Station 19 530 Station 8 310 Station 20 550 Station 9 330 Station 21 570		Station 3 210 Station 15 450
 ● For double wiring SSQ1000 — 41A — P — 350 Station 8 310 Station 9 330 Station 2 550 Station 9 330 Station 2 570 		Station 4 230 Station 16 470
• For double wiring Station 7 290 Station 19 530 SSQ1000 - 41A - P - 350 Station 8 310 Station 20 550 Station 9 330 Station 21 570		Station 5 250 Station 17 490
SSQ1000-41A-P-350 Station 8 310 Station 20 550 Station 9 330 Station 21 570		Station 6 270 Station 18 510
Station 9 330 Station 21 570		Station 7 290 Station 19 530
Station 9 330 Station 21 570	SSQ1000-41A-P-350	Station 8 310 Station 20 550
Station 10 250 Station 22 590		Station 9 330 Station 21 570
		Station 10 250 Station 22 590

L
*

VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

How to Add Manifold Stations for SQ1000/SQ2000

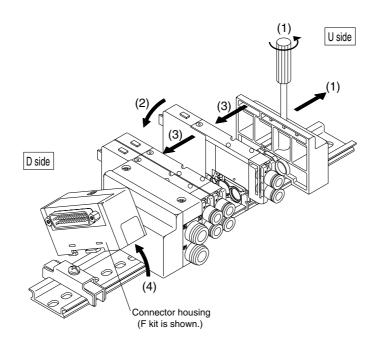
Steps for adding stations

(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)

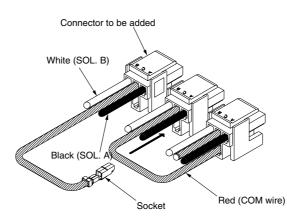
(4) In the case of F kit, P kit or J kit, remove the connector housing from the DIN rail and connect the wiring.



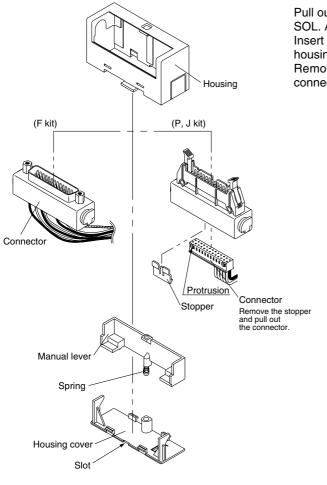
2. Connection Method

(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
-------------	---------------



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

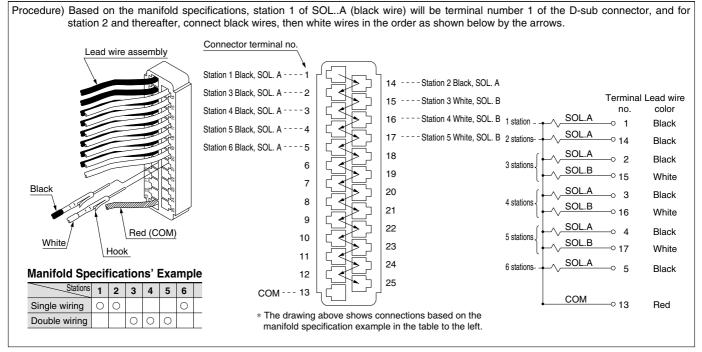
VQZ

VQD

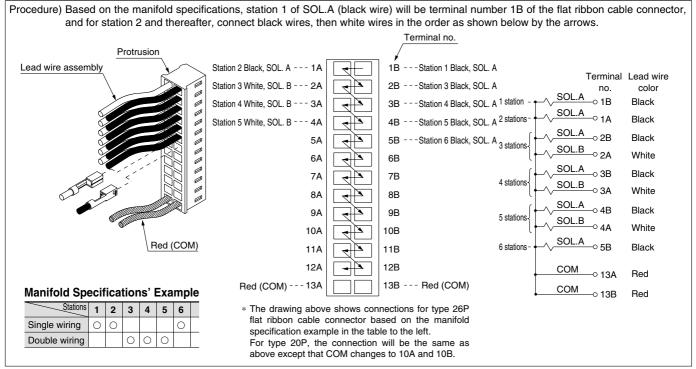
How to Add Manifold Stations for SQ1000/SQ2000

- (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.

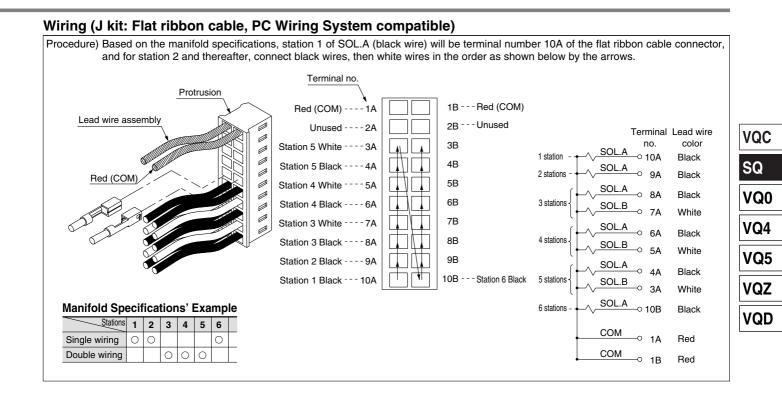
Wiring (F kit: D-sub connector kit)



Wiring (P kit: Flat ribbon cable kit)

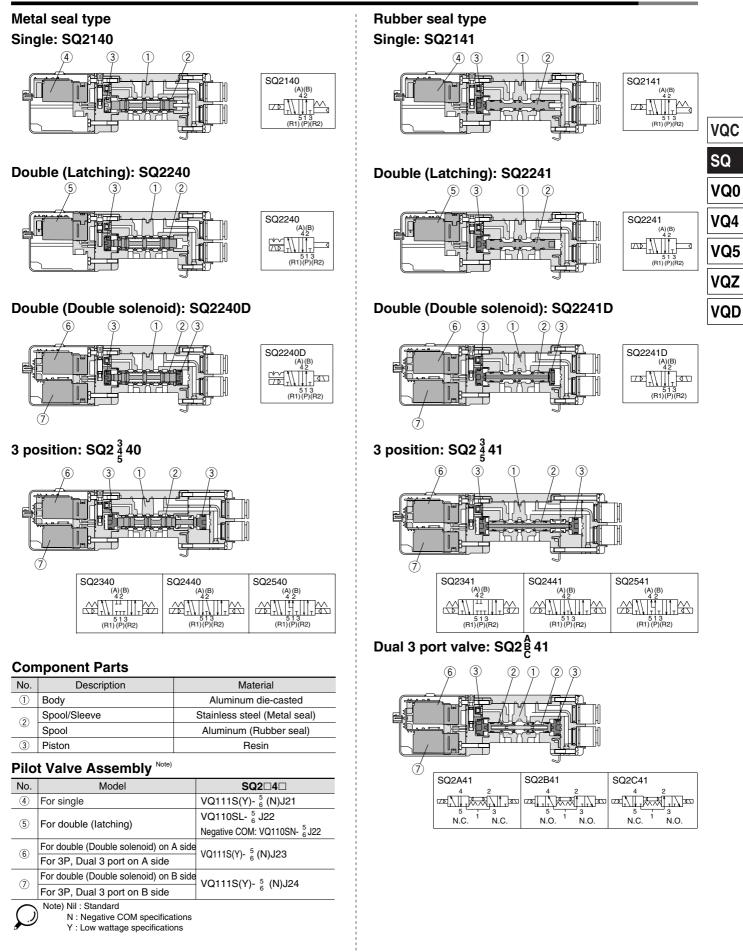


∕∂SMC



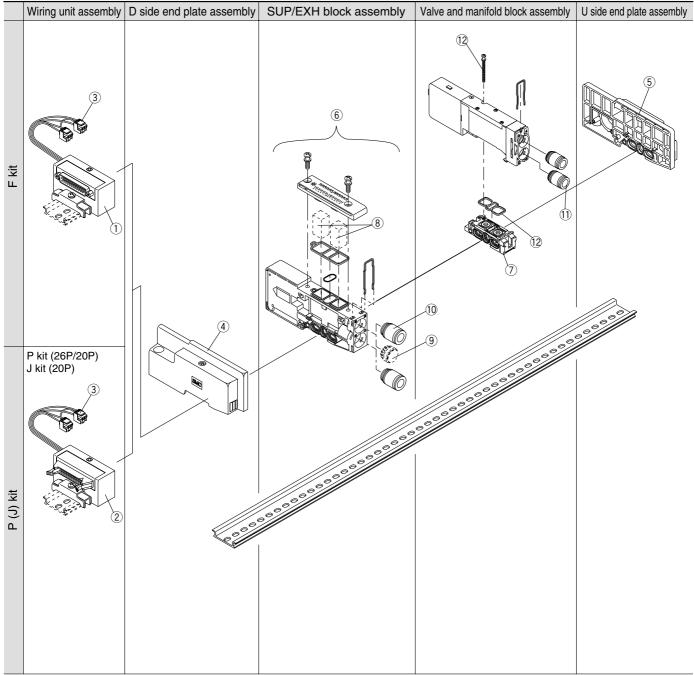
Plug Lead Unit Series SQ1000/2000

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

