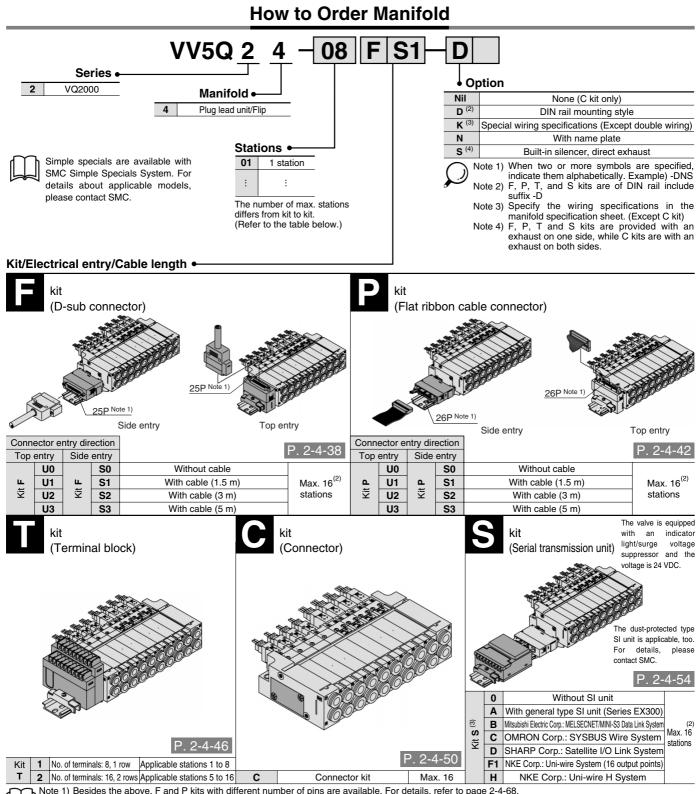


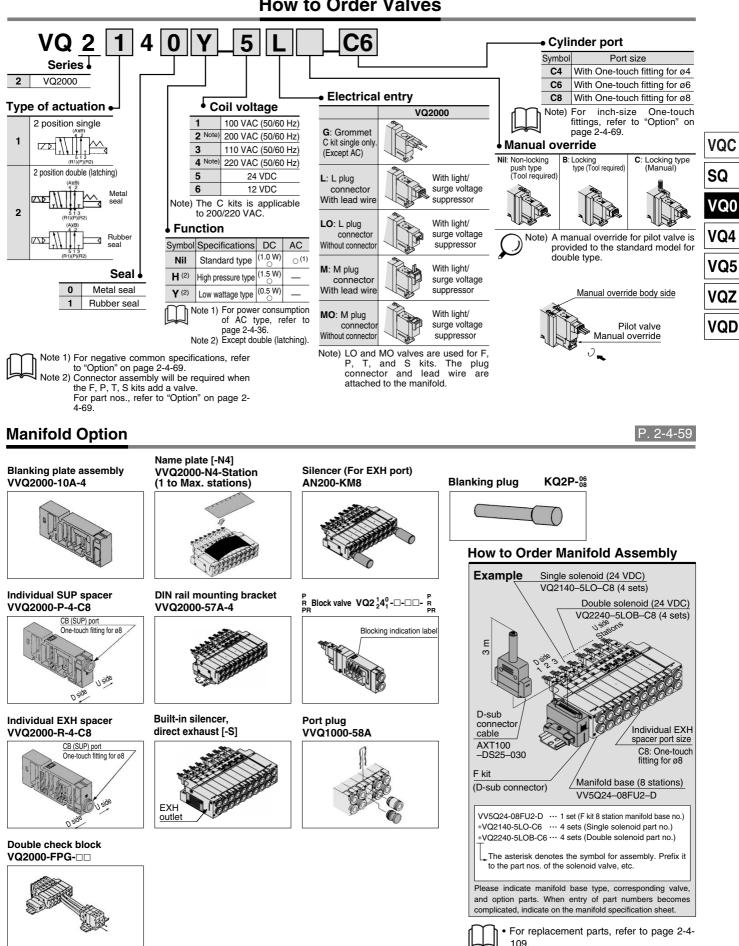
Series VQ2000 **Body Ported Plug Lead Unit: Flip Type**



Note 1) Besides the above, F and P kits with different number of pins are available. For details, refer to page 2-4-68.

Note 2) See page 2-4-69 for details. Note 3) Please consult with SMC for the following serial transmission kits: Matsushita Electric Works, Ltd.; Rockwell Automation, Inc.; SUNX Corporation; Fuji Electric Co., Ltd.; OMRON Corporation.

Body Ported Plug Lead Unit: Flip Type Series VQ2000



How to Order Valves

Body Ported

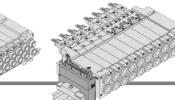
Manifold Specifications

			P	orting specificat		Applicable ⁽²⁾	Applicable	5 station	
Series	Base model	Type of connection	Port location Port size			stations		weight	
				1(P), 3(R)	4(A), 2(B)		valve	(g)	
Q0000	VV5Q04-□□□	 F kit–D-sub connector P kit–Flat cable connector T kit–Terminal block C kit–Individual connector S kit–Serial transmission unit 	Side	C6 (ø6) Option Built-in silencer, direct exhaust	C3 (ø3.2) C4 (ø4) M5 (M5 thread)		VQ0⊟40 VQ0⊡41	225	
/Q1000	VV5Q14-□□□	 F kit–D-sub connector P kit–Flat cable connector T kit–Terminal block C kit–Individual connector S kit–Serial transmission unit 	Side	C6 (Ø6) Option Built-in silencer, direct exhaust	C3 (ø3.2) C4 (ø4) C6 (ø6) M5 (M5 thread)	1 to 16 stations	VQ1⊡40 VQ1⊡41	380	١
/Q2000	VV5Q24-□□□	 F kit–D-sub connector P kit–Flat cable connector T kit–Terminal block C kit–Individual connector S kit–Serial transmission unit 	Side	C8 (Ø8) Option Built-in silencer, direct exhaust	C4 (ø4) C6 (ø6) C8 (ø8)		VQ2⊡40 VQ2⊡41	671	
		puch fittings are also available. F	or details, refer	to page 2-4-69.	l				V
	ote 2) See page 2-4-69) for details.							V
									V
						1(P) port			۷
						3			
						2(P) port			
) ×		3(R) port			
		Type of conn							
		Type of conn							
		Type of conr			4(A), 2(B) port			
		Type of conr	RECION C		4(A), 2(B) port			
		Type of conr	Rection			B) port			
		Type of conr		v	4(A), 2(V5Q24	(B) port			
		Type of conr		v		(B) port			
		Type of conr		v		(<u>B) port</u>			
		Type of conr		v		(B) port			
		Type of conr		v		(<u>B) port</u>			
		Type of conr		S(R)		(B) port			
		Type of conr				(<u>B) port</u>	1(P) port		
	Type of connection	Type of conr				B) port	1(P) port		
	Type of connection	Type of conr				(B) port	1(P) port		
	Type of connection	Type of conr		3 <u>(R)</u>		(B) port	1(P) port		
	Type of connection			3 <u>(R)</u>		B) port	1(P) port		
	Type of connection	Type of conn		B(R) port		B) port	1(P) port		
	Type of connection			3 <u>(R)</u>		B) port			
	Type of connection			B(R) port		B) port	1(P) port	ort	
	Type of connection			B(R) port			3(R) pc	ort.	
	Type of connection			B(R) port				ort	
	Type of connection			B(R) port			3(R) pc	ort	
	Type of connection	e e e e e e e e e e e e e e e e e e e		B(R) port			3(R) pc	ort	

VQ0000/1000/2000 Kit (Flat ribbon cable connector)

- MIL flat ribbon cable connector reduces installation labor savings for electrical connection.
- Using the connector for flat ribbon cable (26P), (10P, 16P, 20P as an option) conforming to MIL standard permits the use of connectors put on the market and gives a wide interchangeability.
- Top or side receptacle position can be selected in accordance with the available mounting space.
- Maximum stations are 16.

Flat Ribbon Cable (26 pins)



VV5Q24

Manifold Specifications

D^{side} 12³

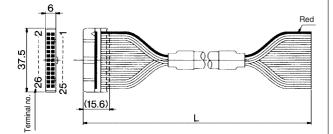
VV5Q14

VV5Q04

	Po	orting spe	Applicable		
Series	Port		ort size	Applicable stations	
	location	1(P), 3(R)	4(A), 2(B)	oluliono	
VQ0000	Side	C6	C3, C4, M5	Max. 16 stations	
VQ1000	Side	C6	C3, C4, C6, M5	Max. 16 stations	
VQ2000	Side	C8	C4, C6, C8	Max. 16 stations	
	Uside	ions			
aside		Stations			

Cable assembly •

AXT100-FC26-1 to 3 (Flat ribbon cable connector assembly can be ordered individually or included) in a specific manifold model no. Refer to How to Order Manifold.



Flat Ribbon Cable Connector Assembly (Option)

Cable length (L)	Assembly part no.	Note
1.5 m	AXT100-FC26-1	
3 m	AXT100-FC26-2	Cable 26 core x 28AWG
5 m	AXT100-FC26-3	X ZOAWG

 For other commercial connectors, use a 26 pins type with strain relief conforming to MIL-C-83503.

Connector manufacturers' example

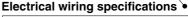
Hirose Electric Co., Ltd.
 Sumitomo 3M Limited

Fujitsu Limited

- , Ltd. Japan Aviation Electronics Industry, Ltd. • J.S.T. Mfg. Co., Ltd.
 - Oki Electric Cable Co., Ltd.

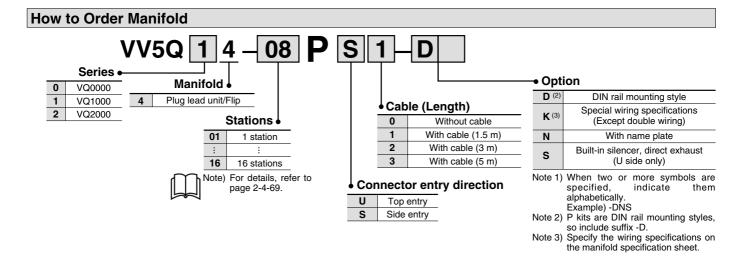
Note) Types with 10, 16, or 20 pin are also available. For details, refer to page 2-4-69. VV5Q14

The total number of stations is tabulated starting from station one on the D side.

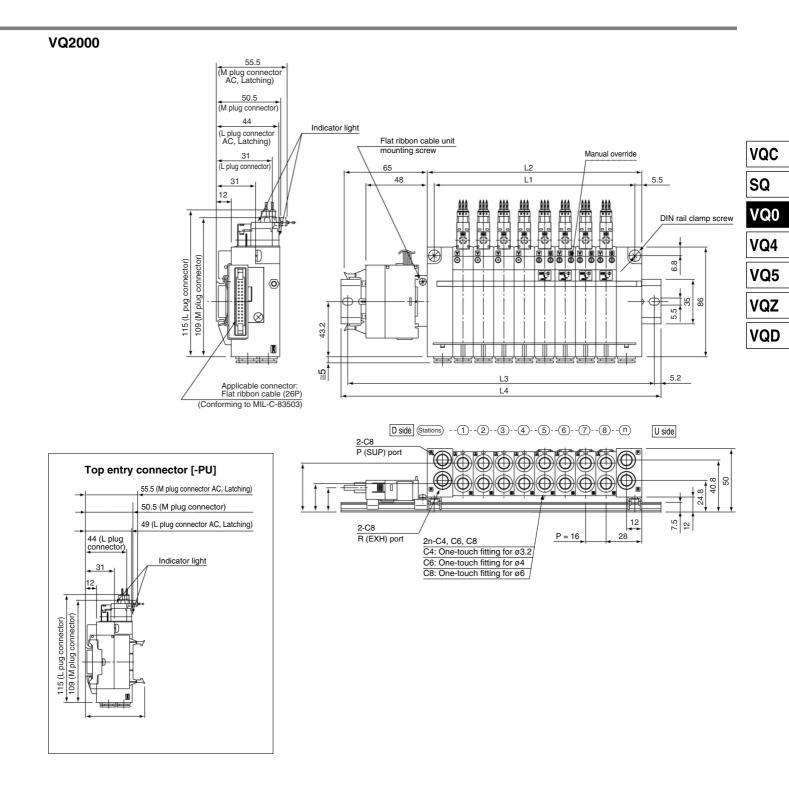


Flat ribbon cable connector (+) SOL.B (-) (+) SOL.A (+) (+) (+) (-) (-) SOL.B 02 240 SOL.A (-) 2 SOL.B (-) (+) (+) (+) (+) (+) (+) (+) (+) (+) SOL.A 01 (-) (-) SOL.B 180 ot SOL.A (-) 160 01 SOL B (-) (-) SOL.A 140 01 SOL.B (-) 120 01 SOL.A 13 (--) 7 stations SOL.B (-) (-) 100 0 SOL.A 80 01 SOL.B (-) (+) Connector СОМ. 80 0 (+) (--) 25 terminal no COM. (+) (--) 40 03 gative corr ive comr specifications D Note) When using the negative common Triangle mark indicator position specifications, use valves for negative common. (Refer to page 2-4-69.)

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 8 stations or less, regardless of valve and option types. Mixed single and double wiring is available as an option. For details, refer to page 2-4-69.







Dime	Dimensions: Side Entry Connector [-PS]				Formula L1 = 16n + 29, L2 = 16n + 40 n: Stations (Maximum 16 statio					stations)						
L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	45	61	77	93	109	125	141	157	173	189	205	221	237	253	269	285
L2	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296
L3	137.5	150	162.5	187.5	200	212.5	225	250	262.5	275	287.5	312.5	325	337.5	362.5	375
L4	148	160.5	173	198	210.5	223	235.5	260.5	273	285.5	298	323	335.5	348	373	385.5

Dimensions: Top Entry Connector [-PU]

L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L3	112.5	125	137.5	162.5	175	187.5	200	225	237.5	250	262.5	287.5	300	312.5	337.5	350
L4	123	135.5	148	173	185.5	198	210.5	235.5	248	260.5	273	298	310.5	323	348	360.5



D side

5 (R1)

1 (P) 3 (R2)

Manifold Option Parts for VQ2000

Blanking plate assembly VVQ2000-10A-4

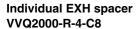
It is used when a blanking plate is mounted to amanifold in advance for possible valve mounting, etc

Individual SUP spacer VVQ2000-P-4-C8

When the same manifold is to be used for different pressures, individual SUP spacers are used as SUP ports for different pressures. (One station space is occupied.)

Since the SUP passage on the spacer's D side is blocked in advance, it is mounted on the D side the valves U side. (Refer to the application example.)

* Specify the spacer mounting position and SUP block plate mounting position on the manifold specification sheet.



When valve exhaust affects other stations due to the circuit configuration, this spacer is used for individual valve exhaust. (1 station space is occupied.) Since the EXH passage on the spacer's D side is blocked in advance, it is mounted on the D side of the valve for individual supply while blocking the EXH passa

- valves U side. (Refer to the application example.) * Specify the spacer mounting position and EXH block plate mounting position on the manifold specification sheet
- * When the electrical entry is F, P, T, S kit, and if you choose the option with built-in silencer, no exhaust port will be supplied on the D side end plate. In this case, mount a spacer for individual EXH on the 1st station

Block valve

Valve no

For a flip plug-in unit, block plate is built in the valve for blocking SUP and EXH passages. Since the no. is classified by the passage to be blocked, specify it by attaching the option no. to the valve no. The block valve is constructed so that U sides of SUP and EXH passages are blocked.

* Specify the number of stations on the manifold specification sheet.

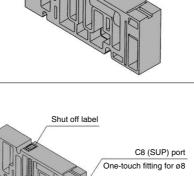
<Shut off label>

When using block plates for SUP, EXH passage, indication label for confirmation of the blocking position from outside is attached. (One label for each)

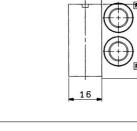
- * When ordering a block plate incorporated with the manifold no., a block indication label is attached to the manifold.
- * Caution on handling P/RP block valve

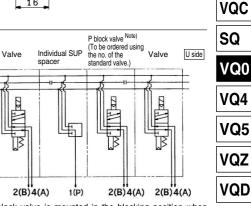
When the electrical entry is F, P, T, S kit, and if you choose the option with built-in silencer, no exhaust port will be supplied on the D side end plate. In this case, mount a spacer for individual EXH on the 1st station.

SUP passage	EXH passage	SUP/EXH
blocked	blocked	passage blocked



blocked

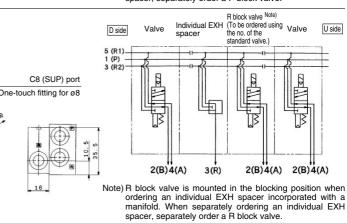


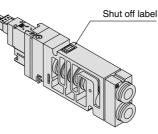


VQD

35.

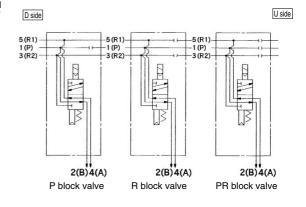
Note) P block valve is mounted in the blocking position when ordering an individual SUP spacer incorporated with a manifold. When separately ordering an individual SUP spacer, separately order a P block valve.





Shut off label

Uside



For SUP passage block	VQ2 ¹ ₂ 4 ⁰ -□-□□-P
For EXH passage block	VQ2 ¹ ₂ 4 ⁰ ₁ -□-□□-R
For SUP/EXH passage block	VQ2 ¹ ₂ 4 ⁰ ₁ -□-□□-PR

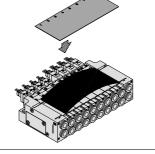


Body Ported Series VQ0000/1000/2000

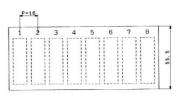
Manifold Option Parts for VQ2000

Name plate [-N4] VVQ2000-N4-Station (1 to Max. stations)

It is a transparent resin plate for placing a label that Indicates solenoid valve function, etc. Insert it into the groove on the side of the end plate and bend it as shown in the figure.

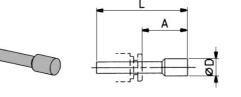


* When ordering assemblies incorporated with a manifold, add suffix N to the manifold no.



Blanking plug KQ2P-⁰⁴/₂₆

It is inserted into an unused cylinder port and SUP/EXH ports. Purchasing order is available in units of 10 pieces.



Dimensions

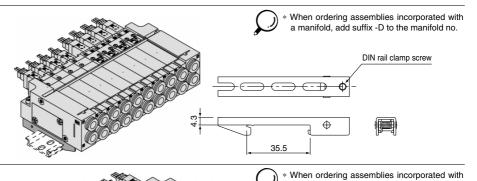
Applicable fittings size ød	Model	A	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10

a manifold, add suffix -S to the manifold no.

DIN rail mounting bracket VVQ2000-57A-4

It is used for mounting a manifold on a DIN rail. The DIN rail mounting bracket is fixed to the manifold end plate. (The specification is the same as that for the option -D.)

1 set of DIN rail mounting bracket is used for 1 manifold (2 DIN rail mounting brackets).



Built-in silencer, Direct exhaust [-S]

This is type with an exhaust port atop the manifold endplate. The built-in silencer exhibits an excellent noise suppression effect.

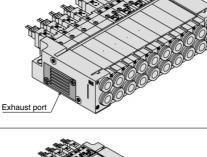
 $\mathsf{F},\,\mathsf{P},\,\mathsf{T}$ and S kits are provided with exhaust on one side.

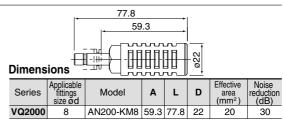
Note) A large quantity of drainage generated in the air source results in exhaust of air together with drainage.

• For maintenance, refer to page 2-4-67.

Silencer (For EXH port)

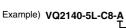
This silencer is to be inserted into the EXH port (Onetouch fittings) of the common exhaust.



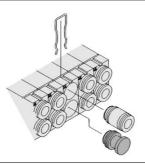


Port plug VVQ1000-58A

The plug is used to block the cylinder port when usinga 4 port valve as a 3 port valve. When ordering it incorporated with a manifold, suffix A or B, the symbol of the plug port, to the valve no.

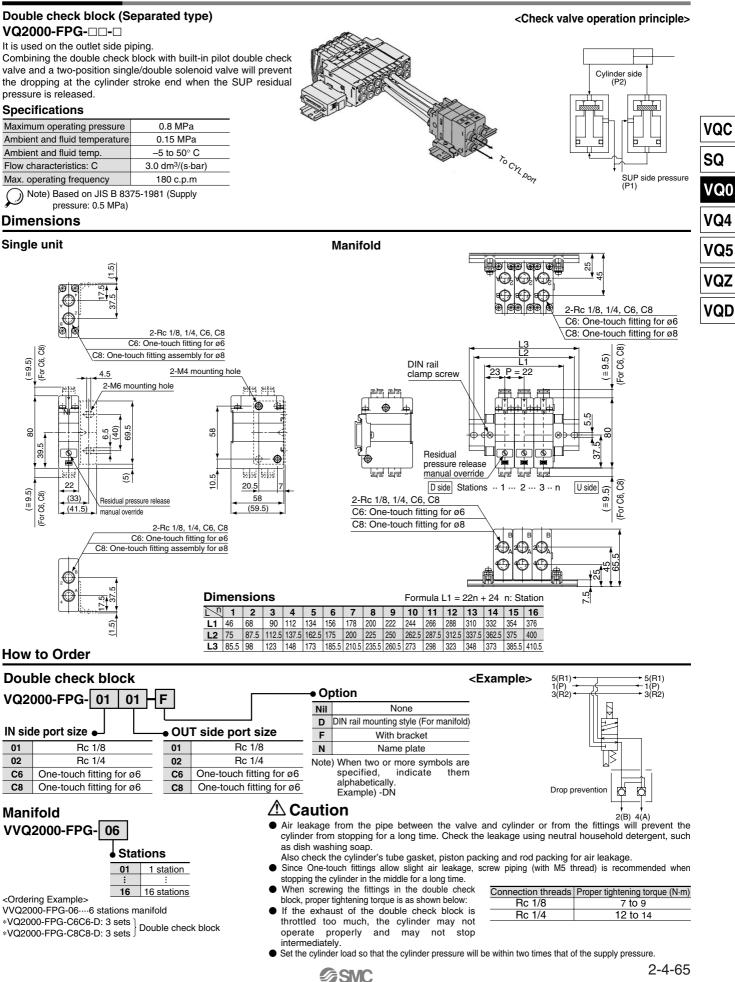








Manifold Option



Body Ported

Series VQ0000/1000/2000

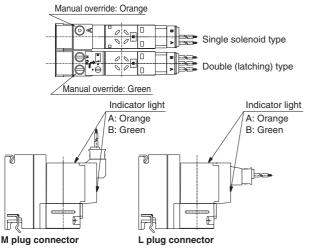
A Precautions

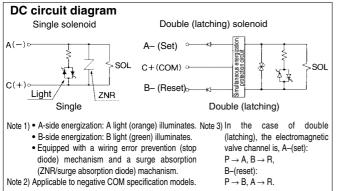
Be sure to read before handling. For Safety Instructions and Solenoid Valve Precautions, refer to page 2-9-2.

Light/Surge Voltage Suppressor

🗥 Caution

The lighting positions are concentrated on one side for both single solenoid and double (latching) type. In the double (latching) type, A side and B side energization are indicated by two colors which match the colors of the manual overrides.





Double (Latching solenoid) Type

🗥 Caution

Different from the conventional double solenoid, the double type uses a latching (self-holding system) solenoid. Although the appearance is the same as the single solenoid, it is constructed so that the movable iron core in the solenoid is held in the ON position on A and B sides by instantaneous energization (20 ms or more).

The usage and function is the same as the double solenoid.

<Special Cautions for Latching Solenoid>

- 1. Select the circuit in which ON and OFF signals are not energized simultaneously.
- 2. 20 ms energization time is necessary for self-holding.
- 3. Avoid using the latching solenoid valves in environments where impact or collisions with the valve might occur. Also, do not use in places where strong magnetic fields are present.
- 4. Even though the armature in the solenoid of this valve is held on to B side, ON position (Reset), verify either A side, ON position or B side, ON position by energizing prior to use.
- 5. After manual operation, the main valve will return to its original position. Manual override on the pilot valve side can retain its switching position after manipulation.
- 6. Please contact SMC for long-term energization applications.
- 7. If the metal seal type goes down below the minimum operating pressure of supply air (0.1 MPa or less), the main valve will get back the home position. (B side ON position) Therefore, in the event of shutting the supply air or applying the air with being A side ON position remained, cylinder may be pulsated. In the event of manipulating the supply air, the valve's switching position has to be set in the home position side (B side ON position side).

How to Mount/Remove Solenoid Valve Tie-rod bolt A

\land Caution

<Procedure>

How to Remove

- 1. Loosen tie-rod bolt B. (Two to four turns) 2. After fully loosening the tie-rod bolt, take
- off bolt A upward as shown above. 3. Slide the valves aside to make a 1
- mm clearance between the valve to be taken off and the others. As shown above, remove the whole valve while

holding up the (a) side. (Avoid rough handing of the connector.)

Mounting

Reverse the sequence of steps above to remount. Tighten the tie-rod bolts with the tightening torque at the right table while

remount.	Torque Ap	plied to Tie-rod Bolt
Tighten the tie-rod bolts with the	VQ0000	0.5 to 0.7 N⋅m
tightening torque at the right table while using caution not to tighten the only one	VQ1000	1.0 to 1.4 N·m
using caution not to tighten the only one	VQ2000	1.0 to 1.4 N·m

Light cover

Tie-rod bolt B

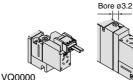
side unevenly. Note) Be careful not to push on the light cover while mounting/removing the valve

Double (Latching solenoid) Type

🗥 Warning

Without an electric signal for the solenoid valve the manual override is used for switching the main valve.

Push type (Tool required)

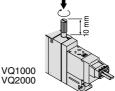


Push down on the manual override button with a small screwdriver until it stops. Release the screwdriver and the manual override will return.



VQ1000 VQ2000 If the manual override is turned by 180° clockwise and the > mark is adjusted to 1, then pushed in the direction of an arrow (\downarrow), it will be locked in the ON state. If the manual override is turned by 180' counterclockwise and ▶ mark is adjusted to 0, locking will be released and the manual override will return.

Locking lever type (Option)

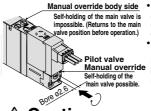


Push down completely on the manual override button with a small screwdriver. While down, turn clockwise 90° to lock it. Turn it counterclockwise to release it

release it.

Manual override for double (latching) type

In the case of a double (latching) type, a manual override is provided not only on the body side but to the pilot as a standard. (VQ0000: Pilot valve only). After manual operation, the main valve of the manual on the body side returns to the position before the manual operation, however, the pilot valve manual override maintains the change-over position.

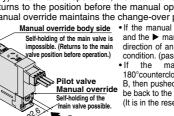


Manual override body side . If the manual override is turned by 180° clockwise and the b mark is adjusted to A, then pushed in the direction of an arrow (\blacklozenge), it will be back to the reset condition. (passage $P \rightarrow A$) If the manual override is turned by 180°counterclockwise and the b mark is adjusted to B, then pushed in the direction of an arrow (\blacklozenge), it will be back the grade back the grade back to be the set of the grade back to be back to be a back the grade back to be back to back to be back to be back to be back to back to be back to be

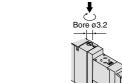
be back to the reset condition. (passage $P \rightarrow B$) (It is in the reset state at the time of shipment.)

🗥 Caution

∕∂SMC



Do not apply excessive torque when turning the locking type manual override. (0.1 N·m or less)



manual override button with a small screwdriver. While down, turn clockwise 90° to lock it.

Turn it counterclockwise to

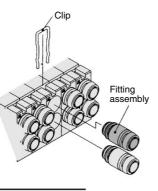
VQ1000 VQ2000 Push down completely on the

Replacement of Cylinder Port Fittings

🗥 Caution

The cylinder port fittings are a cassette for easy replacement. (Except VQ1000)

The fittings are blocked by a clip inserted from the top of the valve. Remove the clip with a screwdriver to remove fittings. For replacement, insert the fitting assembly until it strikes against the inside wall and then re-insert the clip to the specified position.



Applicable	Fitting assembly part no.				
tubing O.D	VQ1000	VQ2000			
Applicable tubing ø3.2	VVQ1000-50A-C3	-			
Applicable tubing ø4	VVQ1000-50A-C4	VVQ1000-51A-C4			
Applicable tubing ø6	VVQ1000-50A-C6	VVQ1000-51A-C6			
Applicable tubing ø8	— VVQ1000-51A				
Durchasing order is ave	ilable in units of 10 m	lesse			

Purchasing order is available in units of 10 pieces.

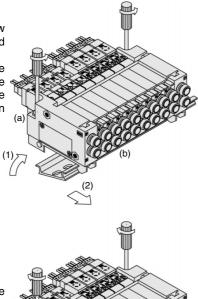
Caution

- 1. Protect O-rings from scratches and dust to prevent air leakage.
- 2. The tightening torque for inserting fittings to the M5 thread assembly should be 0.8 to 1.4 N·m

Mounting/Removing from the DIN Rail

🗥 Caution <Procedure>

- How to Remove 1. Loosen the clamp screw on side (a) of the end plate on both sides.
- 2. Lift side (a) of the manifold base and slide the end plate in the direction of (2) shown in the figure to remove.



(1)

Mounting

- 1. Hook side (b) of the manifold base on the DIN rail.
- 2. Press down side (a) and mount the end plate on (a) the DIN rail. Tighten the (2) clamp screw on side (a) of the end plate. The proper tightening torque for screws is 0.4 to 0.6 N·m.

How to Calculate the Flow Rate

For obtaining the flow rate, refer to pages 2-1-8 to 2-1-11.

Built-in Silencer Replacement Element

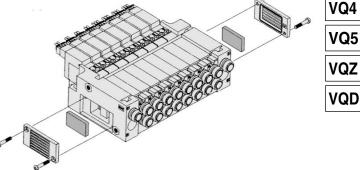
A Caution

A silencer element is incorporated in the end plate on both sides of the manifold base. A dirty and choked element may reduce cylinder speed or cause malfunction. Clean or replace the dirty element.

Element Part No.

Type		Element part no.		
туре	VQ0000	VQ1000	VQ2000	VQC
Built-in silencer,				VQC
direct exhaust (-S)	VVQ0000-82A-4	VVQ1000-82A-4	VVQ2000-82A-4	SQ
* The minimum or	der quantity is 10 pc	S.		

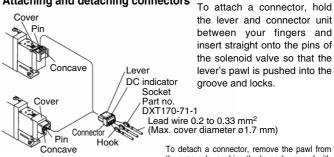
Remove the cover from the side of the end plate and remove the old element with a screwdriver, etc.



How to Use Plug Connector

A Caution

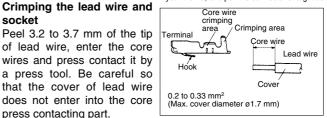
Attaching and detaching connectors



Lead wire 0.2 to 0.33 mm² (Max. cover diameter ø1.7 mm)

To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb, and pull the connector straight out.

VQ0



press contacting part. Attaching and detaching lead wires with sockets Attaching

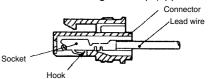
Insert a socket in the square hole (Indicated as +, -) of connector, push in the lead wire and lock by hanging the hook of socket to the seat of connector. (Pushing-in can open the hook and lock it automatically.) Then confirm the lock by lightly pulling on the lead wire.

Detaching

socket

To detach a socket from a connector, pull out the lead wire while pressing the socket's hook with a stick having a thin tip (approx. 1

mm). If the socket will be used again, first spread the hook outward.

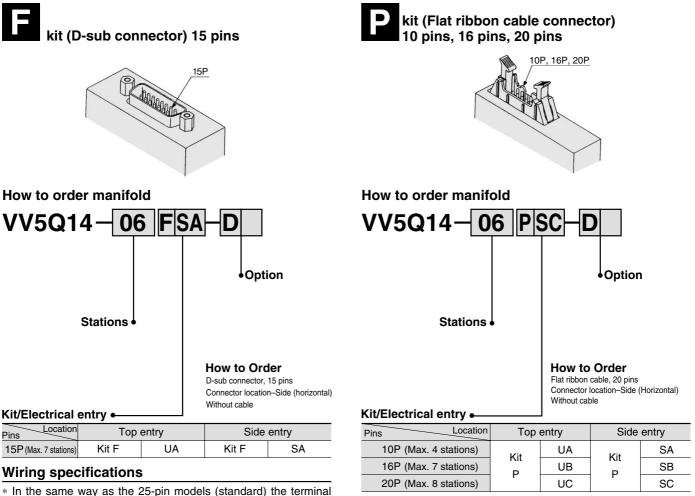


Body Ported Series VQ0000/1000/2000

Option

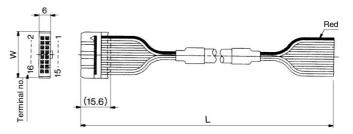
Different Number of Connector Pins

F and P kits with the following number of pins are available. Besides the standard number (F = 25; P = 26) select the desired number of pins and cable length from the cable assembly list. Place an order for the cable assembly separately.



Wiring Specifications

*In the same way as the 26-pin models (standard) the terminal no. 1 is for SOLA at the 1st station, the terminal no. 2 for SOL.B at the 1st station, and two pins from the max. terminal numbers are for COM.



Flat Ribbon Cable Assembly

Cable length (L)	10P	16P	20P
1.5 m	AXT100-FC10-1	AXT100-FC16-1	AXT100-FC20-1
3 m	AXT100-FC10-2	AXT100-FC16-2	AXT100-FC20-2
5 m	AXT100-FC10-3	AXT100-FC16-3	AXT100-FC20-3
Connector width (W)	17.2	24.8	30

* For other commercial connectors, use a type with strain relief conforming to MIL-C-83503.

41.2 2-M2.6×0.45	8	Purple	White					
915	9	Gray	Black					
	10	White	Black					
♀ ○	11	White	Red					
18, -	12	Yellow	Red					
33.32 Terminal no.	13	Orange	Red					
	14	Yellow	Black					
	15	Pink	Black					
D-sub Connector Cable Assembly								
Cable length (L) 15	Р							

no. 1 is for SOLA at the 1st station, the terminal no. 9 for

Plug connector HDA-CTH (Made by Hirose Electric)

(Made by Hirose

Connector HDA-15S

lectric)

Wire Color by Terminal No. of

2

3

4

5

6

D-sub Connector Cable Assembly

Terminal no. Lead wire color Dot marking

Black

Brown

Red

Orange

Yellow

Pink

Blue

None

None

None

None

None

None

None

SOL.B at the 1st station, and the terminal no. 8 for COM.

Multi-core vinyl cable /VRF 0.3 mm² x 15C

 $\simeq \alpha \Omega$

Cable length (L)	15P
1.5 m	AXT100-DS15-1

* For other commercial connectors, use a type conforming to MIL-C-24308.

AXT100-DS15-2 AXT100-DS15-3

∕∂ SMC

3 m

5 m

AXT100-DS15- to

46.

Special Wiring Specifications

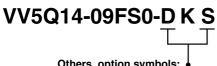
In the internal wiring of F kit, P kit, T kit and S kit, double wiring (connected to SOL. A and SOL. B) is adopted for each station regardless of the valve and option types.

Mixed single and double wiring is available as an option.

1. How to order valves

Indicate an option symbol, -K, for the manifold no. and be sure to specify the mounting position and number of stations of the single and double wiring by means of the manifold specification sheet.

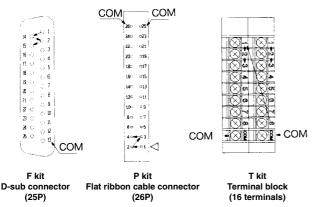
Example)



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. Max. number of stations

The maximum number of stations depends upon the number of solenoids. Assuming one for a single and two for a double, determine the number of stations so that the total number is not more than the maximum number given in the following table.

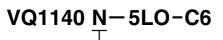
kit	F I (D-sub co		P kit (Flat ribbon cable connector)				T kit (Terminal block)		S kit (Serial)
Туре	F 8 □ 25P	F 🖁 A 15P	P 8 □ 26P	P & C 20P	Р§В 16Р	P & A 10P	T1	T2	S□
Max. points	Note) 16	14	Note) 16	Note) 16	14	8	8	16	16

Note) Due to the limitation of internal wiring.

Negative Common Specifications

Specify the valve model no. as shown below for negative COM specification. The standard manifold no. can be used. Please contact SMC for negative COM S kit.

How to order negative COM valves



Negative common specifications

Inch-size One-touch Fittings

Refer to following model no. for inch-size One-touch fittings.

How to order manifold

VV5Q14-08FSO-DN-00T

	P	, R port	size	•		
	VQ0000	e	o1/4"			
	VQ1000	Ø	o1/4"			
	VQ2000	Ø	\$5/16			
How to order valve	. .					
VA111A EN						
VQ1140—5N		Cylinde	er po N1	rt N3	N7	N9
VQ1140-5N	•	ibol e tubing	<u> </u>	N3	N7 ø1/4"	-
VQ1140—5N	Sym Applicable O.D. (ibol e tubing	N1	N3		-
VQ1140-5N	Sym Applicable O.D. (ibol e tubing (Inch)	N1 ø1/8"	N3 ø5/32"		-

VQC

SQ

VQ0

Plug Connector Assembly Model

Connector assembly will be required when the F, P, T, S kits add a valve.

Specify the type of valve and connector assembly.

Connector Assembly Part No.

Specification	Part no.	
Single	Single Positive common	
(2-wire)	Negative common	AXT661-14AN-F
Double (latching)	Positive common	AXT661-13A-F
(3-wire)	Negative common	AXT661-13AN-F

Note) Lead wire length: 300 mm

Note) The parts numbers above are applicable to VQ0000/1000 (2 to 16 stations) and VQ2000 (2 to 10 stations). VQ2000 (11 to 16 stations) uses AXT661-¹³₁₄A(N) -F425.

Body Ported

Series VQ0000/1000/2000

Option

DIN Rail Mounting

Each manifold can be mounted on a DIN rail.

Order it by indicating an option symbol for DIN rail mounting style, -D. In this case, a DIN rail which is approx. 30 mm longer than the manifold with the specified number of stations is attached. Besides, it is also available in the following cases.

When DIN rail is unnecessary (C kit only.) (DIN rail mounting brackets only are attached.) Indicate the option symbol, -DO, for the manifold no.

Example) VV5Q14-08C-DOS

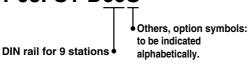
Others, option symbols: to be indicated alphabetically.

• When using DIN rail longer than the manifold with specified number of stations

Clearly indicate the necessary number of stations next to the option symbol, -D, for the manifold no.

Example)

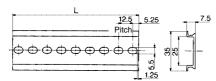
VV5Q14-08FS1-D09S



- When changing the manifold style into a DIN rail mount Order brackets for mounting a DIN rail. (Refer to "Option" on pages 2-4-60, 61 and 64.)
 - No. VQ0000-57A4 (For VQ0000) VQ1000-57A-4 (For VQ1000) VQ2000-57A-4 (For VQ2000) 2 pcs. per one set

When ordering DIN rail only DIN rail no.: AXT100-DR-n

* Refer to the DIN rail dimension table for determining the length.

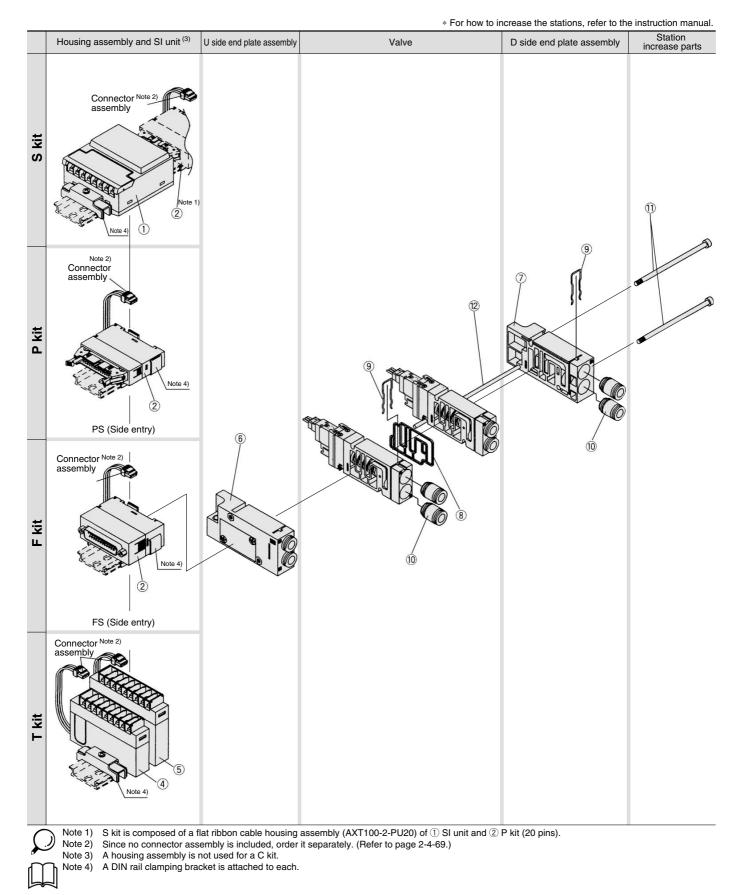


I Dimension

L Dimension L = 12.5 x n + 10.5										
No.	1	2	3	4	5	6	7	8	9	10
L dimension	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5
No.	11	12	13	14	15	16	17	18	19	20
L dimension	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5
No.	21	22	23	24	25	26	27	28	29	30
L dimension	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5
No.	31	32	33	34	35	36	37	38	39	40
L dimension	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5

VQ2000 (VV5Q24)/Plug Lead Unit, Flip Type

(F, P, T, S kit)





	g assembly a				_		
No.	Manifold		t no.			Description	
-	(SA kit)	EX330-S0		eneral type SI unit (Se			
-	(SB kit)	EX130-SN				ta Link System (Mitsubishi Electric Corporation)	
(1)	(SC kit)	EX130-ST		I unit for SYSBUS Wir			
-	(SD kit)						
-	SF1 kit SH kit	EX130-SU EX130-SU		•			
2	P ^U _S kit	AXT100-2		I unit for 16 point Uni-		$\Box = \text{Number of pins: } 26, 20, 16, 10$	SQ
3	F _S ^U kit	AXT100-2 AXT100-2			0 /	□ = Number of pins: 25, 15	VQ0
(3)	T kit	AXT100-2		erminal block assembl		·	VQU
5 ⁽³⁾	T kit	AXT100-2		erminal block assembl	,		VQ4
D Sid	ote 3) Since no co	e Assemb assembly no Optio	nbly is included, ord ecifications and dou hly> 0.	hile side (horizontal) en ler it separately. (Refer t uble wiring, ④ is for 1 tc	to page 2-4-93. o 4 stations and		VQZ
⑦ U sid	le End Plate de end plate a 2000-2A-4-	S: Built (App e Assemb assembly no	0.				
⑦ U sid /VQ2	de end plate a 2000-2A-4-	S: Built (App e Assembly no ssembly no Optio Nil: Con S: Built	t-in silencer, direct e olicable for C kit only oly No.> o.)	Note) The	e ⁽¹⁰⁾ 's fitting assembly is included.	
) U sid VQ2	de end plate a	S: Built (App e Assembly no ssembly no Optio Nil: Con S: Built	t-in silencer, direct e olicable for C kit only oly No.> o. on mmon exhaust)	Note) The	e ⁽⁽⁾ 's fitting assembly is included.	
) U sid VQ2 Repla	de end plate a 2000-2A-4-	S: Built (App e Assembly no Optio Nil: Con S: Built	t-in silencer, direct e olicable for C kit only oly No.> o. on mmon exhaust t-in silencer, direct e	ı) exhaust		e ⁽⁽⁾ 's fitting assembly is included.	
) U sid VQ2 Repla	de end plate a 2000-2A-4- acement Pa	S: Built (App e Assembly no • Optio Nil: Con S: Built urts> 0. 0.	t-in silencer, direct e blicable for C kit only bly No.> o. on mmon exhaust t-in silencer, direct e Description	r) exhaust	Number	e ⁽¹⁾ 's fitting assembly is included.	enclosed.
D U sid /VQ2 Repla No. 8 9 Fittin 0 Fittin	de end plate a 2000-2A-4- acement Pa Part no VVQ2000-8	S: Built (App e Assembly no • Optio Nil: Cor S: Built on 0A-3-2 0A-3-4 Oly> / part no. • Port si C4: Appi C6: Appi	t-in silencer, direct e slicable for C kit only oly No.> o. on mmon exhaust t-in silencer, direct e Description Seal Clip	exhaust	Number 12 12 12		enclosed.
DU sid VQ2 Repla No. 8 9 Fittin VQ1	acement Pa Part no VVQ2000-8 VVQ2000-8 VVQ2000-8 VVQ2000-8	S: Built (App e Assembly no • Optio Nil: Con S: Built nrts> 0. 0A-3-2 0A-3-4 Oly> y part no. • Port si C4: Appl C6: Appl C8: Appl	t-in silencer, direct e slicable for C kit only oly No.> o. on mmon exhaust t-in silencer, direct e Description Seal Clip ize licable tubing ø4 licable tubing ø6	r) exhaust Material HNBR Stainless steel	Number 12 12 12	Note) A set of parts containing 12 pcs. each is	enclosed.

<Housing Assembly and SI Unit> Housing assembly and SI unit no.

No. ⁽³⁾	Part no.	Description	Material	Number ⁽¹⁾	(
11	VVQ2000-105A-4-□ ⁽²⁾	Tie-rod bolt	Carbon steel	2	
(12)	v vQ2000-105A-4-□ \=	Guide rod	Stainless steel	1	

Note 1) Each number of replacement parts are included in one set.
Note 2) □: Number of stations (01 to 16) Note 3) ① and ⑫ are in one set.

SMC