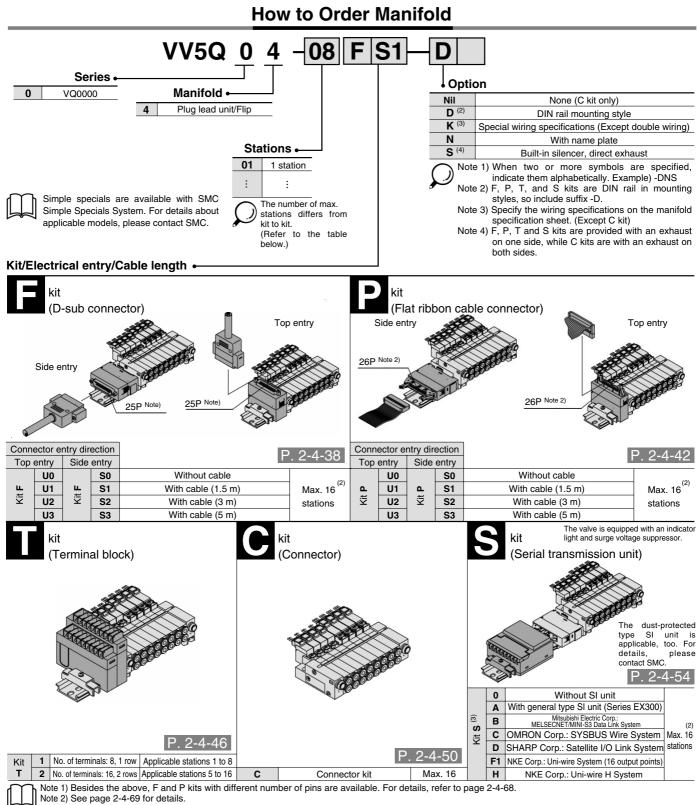
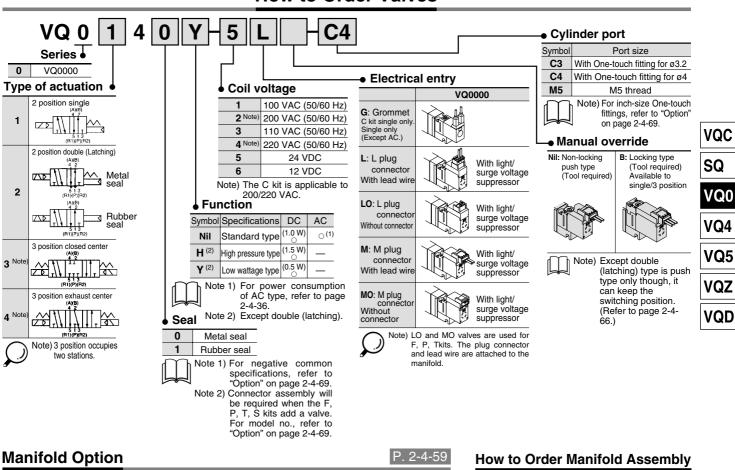


Series VQ0000 Body Ported Plug Lead Unit: Flip Type



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.





Built-in silencer, Direct exhaust [-S]

## How to Order Valves

## EXH outlet Individual SUP spacer **Double Check block** VVQ0000-P-4-C4 VQ1000-FPG-00 ธู้Block valve VQ0่₂4º-⊡-□□-ธู้ Blocking indication labe C4 (SUP) port One-touch fitting for ø4 Individual EXH spacer **DIN rail mounting bracket** KQ2P- 04 VVQ0000-R-4-C4 VVQ0000-57A-4 Blanking plug C4 (EXH) port One-touch

Name plate [-N4]

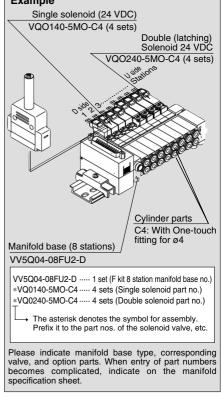
VVQ0000-N4-Station (1 to Max. stations)

Blanking plate assembly

fitting for ø4

VVQ0000-10A-4

## Example



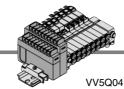
• For replacement parts, refer to page 2-4-105.

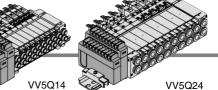
**Body Ported** 

## **Manifold Specifications**

	vice Decemental Trace (		Porting specifications		Applicable <sup>(2)</sup>	Applicable	5 station		
Series	Base model	Type of connection	Port location		size (1)	stations	solenoid	weight	
				1(P), 3(R)	4(A), 2(B)		valve	(g)	
Q0000	VV5Q04-□□□	<ul> <li>F kit–D-sub connector</li> <li>P kit–Flat cable connector</li> <li>T kit–Terminal block</li> <li>C kit–Individual connector</li> <li>S kit–Serial transmission unit</li> </ul>	Side	C6 (ø6) Option Built-in silencer, direct exhaust	C3 (ø3.2) C4 (ø4) M5 (M5 thread)		VQ0⊟40 VQ0⊡41	225	
/Q1000	VV5Q14-□□□	<ul> <li>F kit–D-sub connector</li> <li>P kit–Flat cable connector</li> <li>T kit–Terminal block</li> <li>C kit–Individual connector</li> <li>S kit–Serial transmission unit</li> </ul>	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-□□□	<ul> <li>F kit–D-sub connector</li> <li>P kit–Flat cable connector</li> <li>T kit–Terminal block</li> <li>C kit–Individual connector</li> <li>S kit–Serial transmission unit</li> </ul>	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 (Terminal block)





- It is a standard terminal block type.
- Two quantities of terminals can be selected in accordance with the number of stations.
- (8 terminals/16 terminals)
- Maximum stations are 16.

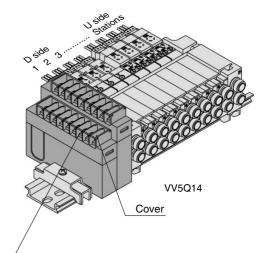
5 1		
T1 Terminal no. Table See See See 2 stations { See See 3 stations { See See 4 stations {	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c} & & & \\ \hline SOLA_{\circ} & 1 & (-) \\ \hline SOLB_{\circ} & 2 & (-) \\ \hline SOLA_{\circ} & 3 & (-) \\ \hline SOLA_{\circ} & 5 & (-) \\ \hline SOLA_{\circ} & 5 & (-) \\ \hline SOLA_{\circ} & 7 & (-) \\ \hline SOLA_{\circ} & 7 & (-) \\ \hline SOLB_{\circ} & 8 & (-) \\ \hline COM_{\circ} & COM & (+) \end{array}$
 T2	In the case of double wiring ( T1 (Terminal block of 1 row T2 (Terminal block of 2 row T1 and T2 can be optionally combinations of single and spec.), etc.	standard spec.) ): 1 to 4 stations s): 5 to 8 stations y chosen by adopting the
The quantity of terminal block used depends on the number of manifold stations.		
Manifold         No. of termina           1 to 4 stations         1 row           5 to 8 stations         2 rows           Wiring other than those above possible.         See page 2-4-69           details.	Double wiring (conn     B) is adopted for th     station, regardless of     Mixed single and do	ected to SOL. A and SOL. ne internal wiring of each of valve and option types. uble wiring is available as

For details, refer to page 2-4-69.

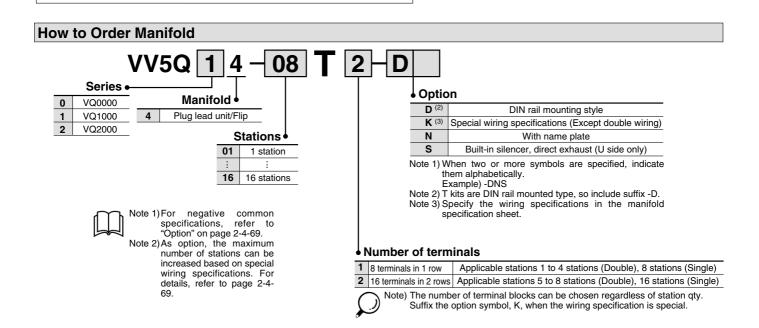
#### • Electrical wiring specifications

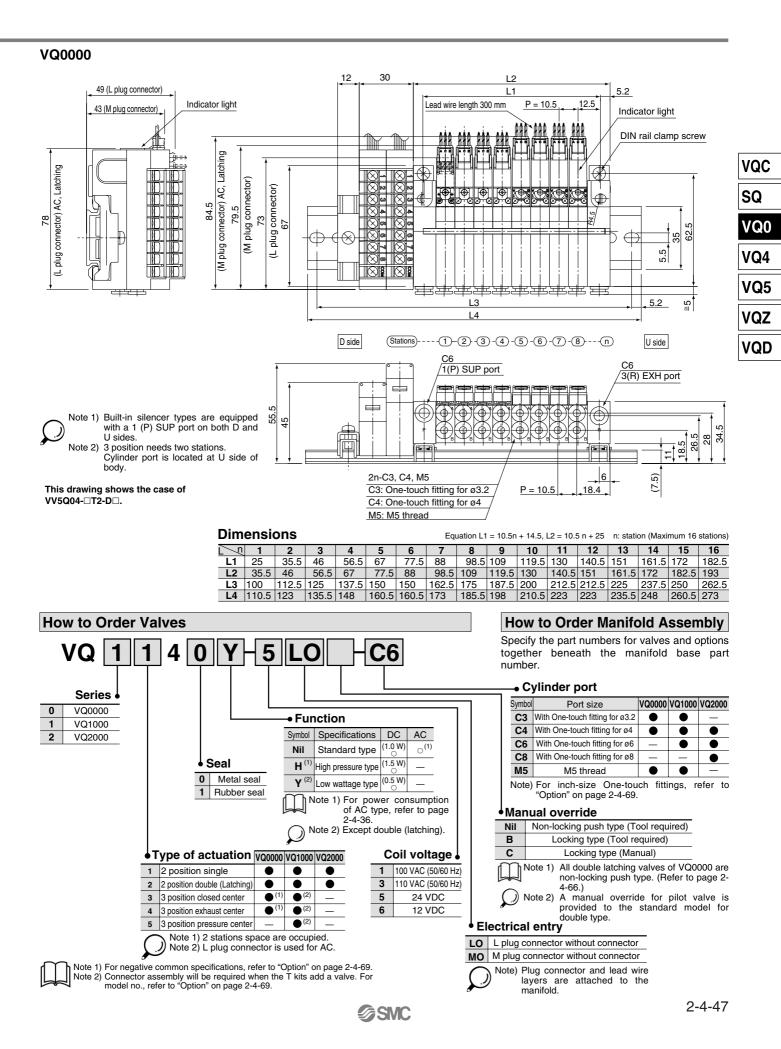
Manifold Specifications

	Po			
Series	Port	I	Applicable stations	
	location	1(P), 3(R)	4(A), 2(B)	stations
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



#### How to connect wires to terminal block Open the terminal block cover to connect the wires to the terminal block. (With M3 thread)





D side

5(R1)

3(R2)

15.5

10.5

1(P

Valve

2(B) 4(A)

## Manifold Option Parts for VQ0000

#### Blanking plate assembly VVQ0000-10A-4

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

#### Individual SUP spacer VVQ0000-P-4-C4

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 of the valve for individual supply while blocking the valve's U side. (See the application ex.)

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

#### Individual EXH spacer VVQ0000-R-4-C4

When valve exhaust affects other stations due to the circuit configuration, this spacer is used for individual valve exhaust. (One 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 valve's U side. (See the application ex.)

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

#### Block valve VQ0<sup>1</sup><sub>2</sub> 4<sup>0</sup><sub>1</sub>-□-□□ - <sup>6</sup><sub>6</sub>

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 For manifold other than C kit which is silencer built-in, there's no exhaust port on the D side end plate. Install a spacer for individual EXH on the 1st station separately.

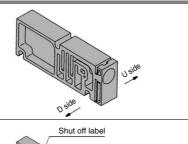
#### Name plate [-N4] VVQ0000-N4-Station (1 to Max. stations)

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.

#### **Blanking plug** KQ2P-02

It is inserted into an unused cylinder port and SUP/EXH ports

Purchasing order is available in units of 10 pieces.



SUP passage blocked



Individual SUP

1(P)

3(R)

Individual EXH

spacer

space

P block valve

(To be ordered using the no. of the standard valve.)

2(B) 4(A)

(To be ordered using the no. of the standard valve.)

2(B) 4(A)

R block valve

Valve

2(B) 4(A)

2(B) 4(A)

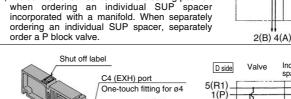
U side

Valve

U side



VQD

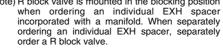


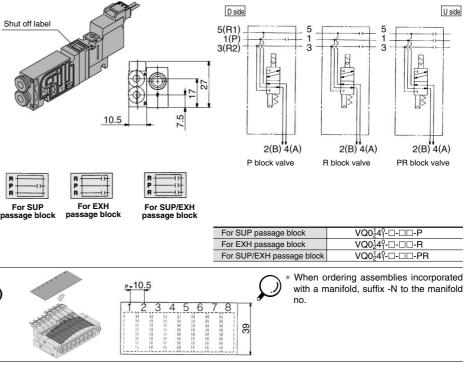
Note) P block valve is mounted in the blocking position

C4 (SUP) port

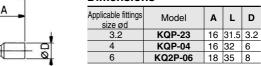
One-touch fitting for ø4

3(R2)  $\odot$ 10 EXH pa 15. blocked 10.5 Note) R block valve is mounted in the blocking position when ordering an individual EXH spacer





## Dimensions



D

# Body Ported Series VQ0000/1000/2000

## Manifold Option Parts for VQ0000

## DIN rail mounting bracket

#### VVQ0000-57A-4

It is used for mounting a manifold on a DIN rail. The DIN rail mounted 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 a type with an exhaust port atop the manifold end plate. The built-in silencer exhibits an excellent noise suppression effect.

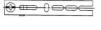
- F, P, T and S kits are provided with exhaust on one side.
- Note) A large quantity of drainage generated in the air source results in exhaust of air together with drainage.

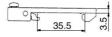
• For maintenance, refer to page 2-4-67.

Exhaust port

DIN rail clamp screw

 When ordering assemblies incorporated with a manifold, add suffix -D to the manifold no.



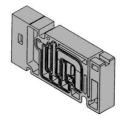


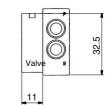
\* When ordering assemblies incorporated with a manifold, add suffix -S to the manifold no.

## Manifold Option Parts for VQ1000

#### Blanking plate assembly VVQ1000-10A-4

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

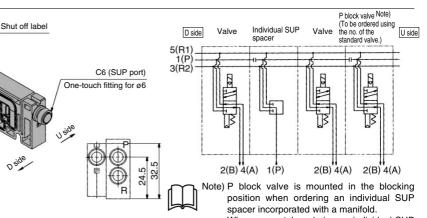




#### Individual SUP spacer VVQ1000-P-4-C6

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 of the valve for individual supply while blocking the valve's U side. (See the application ex.)

application ex.) SUP passaç \* Specify the spacer mounting position and SUP block plate mounting position on the manifold specification sheet.



spacer incorporated with a manifold. When separately ordering an individual SUP spacer, separately order a P block valve.

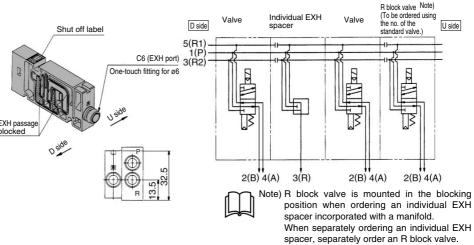
#### Individual EXH spacer VVQ1000-R-4-C6

When valve exhaust affects other stations due to the circuit configuration, this spacer is used for individual valve exhaust. (One 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 valve's U side. (Refer to the application example.) EXH pass

- Specify the spacer mounting position and EXH <u>blocked</u> 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, install a spacer for individual EXH on the 1st station.





## **Body Ported**

## Series VQ0000/1000/2000

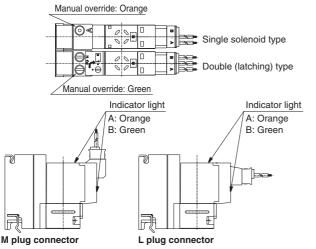
## A Precautions

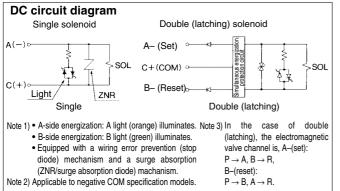
Be sure to read before handling. For Safety Instructions and Solenoid Valve Precautions, refer to page 2-9-2.

#### 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 Applied 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

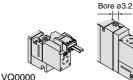
side unevenly. Note) Be careful not to push on the light cover while mounting/removing the valve

## 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)

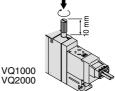


Push down on the manual override button with a small screwdriver until it stops. Release the screwdriver and the manual override will return.



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)

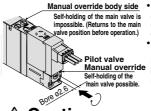


Push down completely on the manual override button with a small screwdriver. While down, turn clockwise 90° to lock it. Turn it counterclockwise to release it

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.

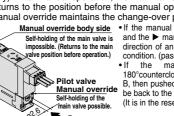


Manual override body side . If the manual override is turned by 180° clockwise and the b mark is adjusted to A, then pushed in the direction of an arrow ( $\blacklozenge$ ), it will be back to the reset condition. (passage  $P \rightarrow A$ ) If the manual override is turned by 180°counterclockwise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

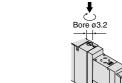
be back to the reset condition. (passage  $P \rightarrow B$ ) (It is in the reset state at the time of shipment.)

## 🗥 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

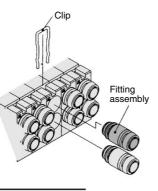
VQ1000 VQ2000 Push down completely on the

## **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-C8						
Durchasing order is ave	Durchasing arder is quailable in units of 10 pieces							

Purchasing order is available in units of 10 pieces.

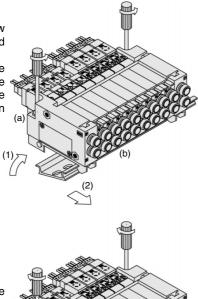
#### Caution

- 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**

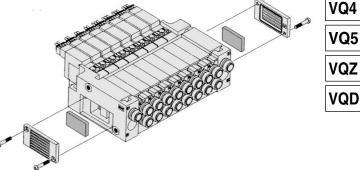
## A Caution

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 order quantity is 10 pcs.						

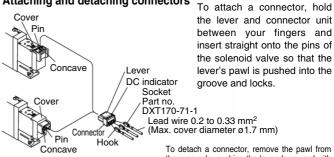
Remove the cover from the side of the end plate and remove the old element with a screwdriver, etc.



## How to Use Plug Connector

## A Caution

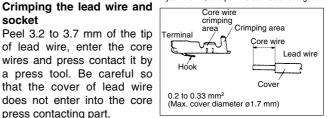
Attaching and detaching connectors



Lead wire 0.2 to 0.33 mm<sup>2</sup> (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

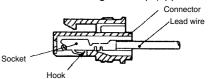
Insert a socket in the square hole (Indicated as +, -) of connector, push in the lead wire and lock by hanging the hook of socket to the seat of connector. (Pushing-in can open the hook and lock it automatically.) Then confirm the lock by lightly pulling on the lead wire.

#### 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.



## **Special Wiring Specifications**

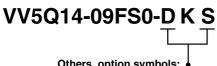
In the internal wiring of F kit, P kit, T kit and S kit, double wiring (connected to SOL. A and SOL. B) is adopted for each station regardless of the valve and option types.

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.

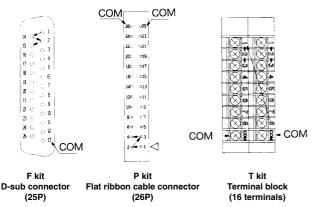
#### Example)



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.

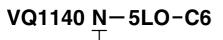
kit	F I (D-sub co		P kit (Flat ribbon cable connector)				T kit (Terminal block)		S kit (Serial)
Туре	F 8 □ 25P	F 🖁 A 15P	P ∛ □ 26P	P & C 20P	Р§В 16Р	P \ A 10P	T1	T2	S□
Max. points	Note) 16	14	Note) 16	Note) 16	14	8	8	16	16

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 ø1/4"					
	VQ1000	Ø	o1/4"			
	VQ2000	Ø	\$5/16			
How to order valve	<b>.</b>					
VA111A EN						
VQ1140—5N		Cylinde	er po N1	rt N3	N7	N9
VQ1140-5N	•	ibol e tubing	<u> </u>	N3	<b>N7</b> ø1/4"	
VQ1140—5N	Sym Applicable O.D. (	ibol e tubing	N1	N3		
VQ1140-5N	Sym Applicable O.D. (	bol e tubing Inch)	<b>N1</b> ø1/8"	<b>N3</b> 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	Positive common	AXT661-14A-F
(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-<sup>13</sup><sub>14</sub>A(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

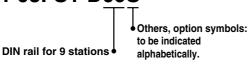
Others, option symbols: to be indicated alphabetically.

• 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)

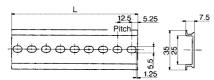
## VV5Q14-08FS1-D09S



- 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.

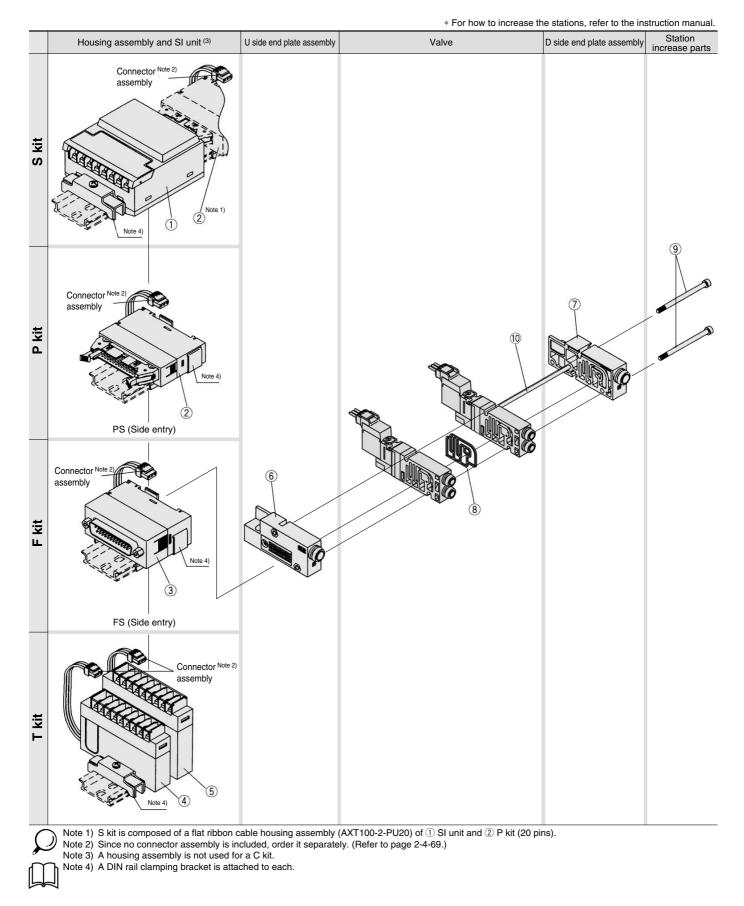


#### I Dimension

L Dime	<b>L Dimension</b> L = 12.5 x n + 10.									
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

## VQ0000 (VV5Q04)/Plug Lead Unit, Flip Type

## (F, P, T, S kit)





<Housing Assembly and SI Unit>

No.	Manifold	Part no.	Description				
	(SA kit)	EX330-S001	General type SI unit (Series EX300)				
	(SB kit)	EX130-SMB1	SI unit for MELSECNET/MINI-S3 Data Link System (Mitsubishi Electric Corporation)				
1)(1)	(SC kit)	EX130-STA1	SI unit for SYSBUS Wire System (OMRON Corporation)				
	(SD kit)	EX130-SSH1	SI unit for Satellite I/O Link System (SHARP Corporation)				
	SF1 kit	EX130-SUW1	SI unit for 16 point Uni-wire System (NKE Corporation)				
	SH kit	EX130-SUH1	SI unit for 16 point Uni-wire H System (NKE Corporation)				
2	P <sup>U</sup> <sub>s</sub> kit	$P_{S}^{U}$ kit AXT100-2- $P_{S}^{U}$ □ <sup>(2)</sup> Flat ribbon cable housing assembly □ = Number of pins: 26, 20, 16, 10					
3	F <sup>U</sup> s kit	AXT100-2-F <sup>U</sup> <sub>S</sub> □ <sup>(2)</sup>	D-sub connector housing assembly $\Box$ = Number of pins: 25, 15				
④ <sup>(3)</sup>	T kit	AXT100-2-TB1	Terminal block assembly (8 terminals)				
(5) <sup>(3)</sup>	T kit	AXT100-2-TB2	Terminal block assembly (8 terminals)				
	AXT100-2-P te 2) Top/vertical te 3) In the case of	S20 separately. entry connector for FU and PU of standard specifications and	nousing assembly (AXT100-2-PS20) of ① SI unit and ② P kit (20 pins). Place an order fo J while side (horizontal) entry connector for FS and PS. double wiring, ④ is for 1 to 4 stations and ⑤ is for 5 to 8 stations. der it separately. (Refer to page 2-4-69.)				

#### <D Side End Plate Assembly>

#### ${\bf (6)}$ D side end plate assembly no.

VVQ0000-3A-4-

• Option

S: Built-in silencer, direct exhaust

P: Exclusively for SUP

The end plate style is subject to the kit. The combination as standard is as follows.

Kit	Part no.	U side end plate assembly	D side end plateassembly
E D O L'IL	Common exhaust type	VVQ0000-3A-4-P	VVQ0000-2A-4-R
F, P, S kit	Built-in silencer, direct exhaust	VVQ0000-3A-4-P	VVQ0000-2A-4-S
	Common exhaust type	VVQ0000-3A-4-P	VVQ0000-2A-4-R
C kit	Built-in silencer, direct exhaust	VVQ0000-3A-4-S	VVQ0000-2A-4-S

#### <U Side End Plate Assembly No.> ⑦ U side end plate assembly no. VVQ0000-2A-4-□

Option
 S: Built-in silencer, direct exhaust
 R: Exclusively for EXH (Common exhaust type)

#### <Replacement Parts>

No.	Part no.	Description	Material	Number
8	VVQ0000-80A-4-2	Seal	HNBR	12

Note) A set of parts containing 12 pcs. each is enclosed.

#### <Station Increase Parts>

No. <sup>(3)</sup>	Part no.	Description	Material	Number <sup>(1)</sup>
9	- VVQ0000-105A-4-□ <sup>(2)</sup> -	Tie-rod bolt	Carbon steel	2
10		Guide rod	Stainless steel	1

$\cap$	Note 1) Each	number	of	replacement	parts	are	
	Note 1) Each number of replacement parts are included in one set.						
Note 2) □: Number of stations (01 to 16) Note 3) ⑨ and ⑪ are in one set.							

VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD