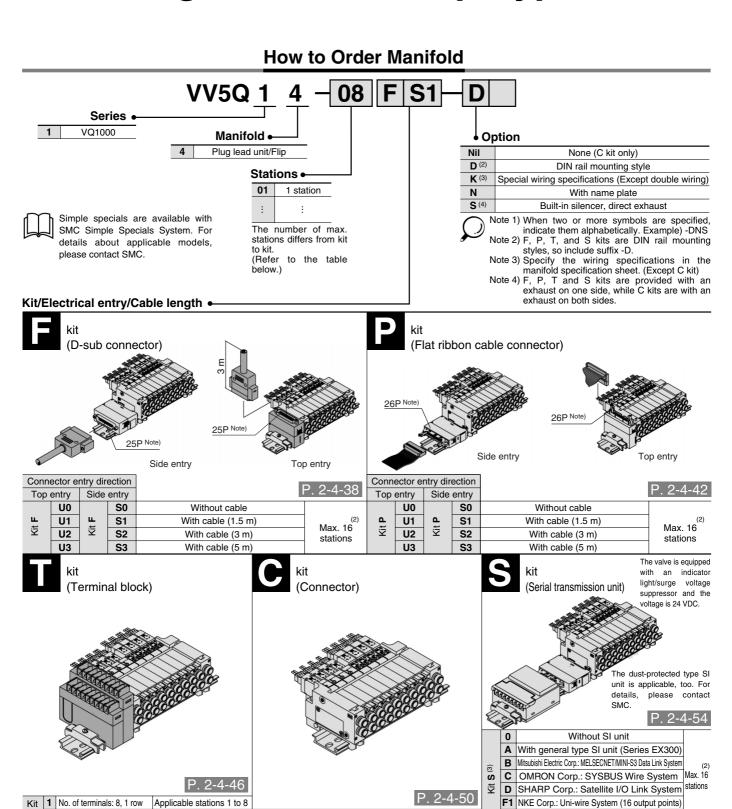


Plug Lead Unit: Flip Type



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.

2 No. of terminals: 16, 2 rows Applicable stations 5 to 16

Max. 16

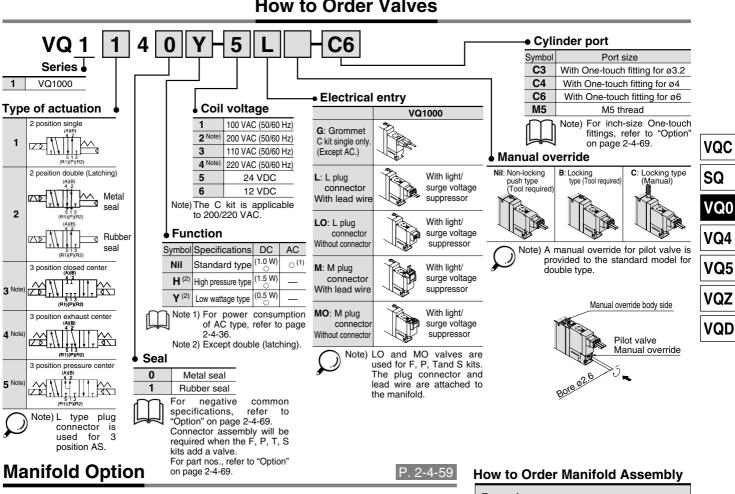
NKE Corp.: Uni-wire H System

Connector kit

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.

VQ4

How to Order Valves



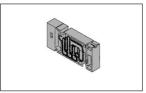
SUP/EXH passage block

VVQ0000-58A

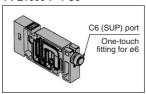
Blanking plug

Port plug

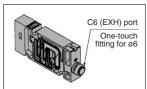
Blanking plate assembly VVQ1000-10A-4



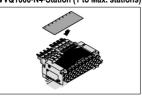
Individual SUP spacer VVQ1000-P-4-C6



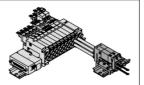
Individual EXH spacer VVQ1000-R-4-C6



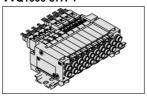
Name plate [-N4] VVQ1000-N4-Station (1 to Max. stations)



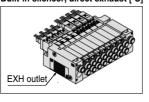
Double check block VQ1000-FPG-□□



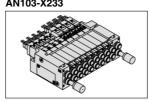
DIN rail mounting bracket VVQ1000-57A-4

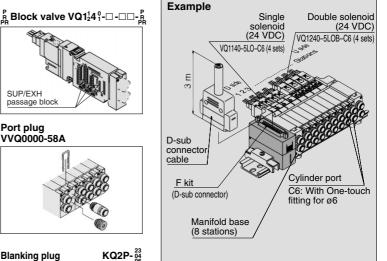


Built-in silencer, direct exhaust [-S]



Silencer (For EXH port)





VV5Q14-08FU2-D 1 set (F kit 8 station manifold base no.) *VQ1140-5LO-C6 4 sets (Single solenoid part no.) *VQ1240-5LOB-C6 ···· 4 sets (Double solenoid part no.)

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

Please indicate manifold base type, corresponding valve, and option parts. When entry of part numbers becomes complicated, indicate on the manifold specification sheet.



For replacement parts, refer to page 2-4-107.

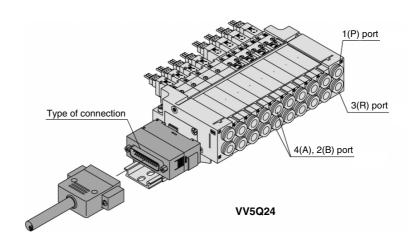
Plug Lead Unit: Flip Type Series VQ0000/1000/2000

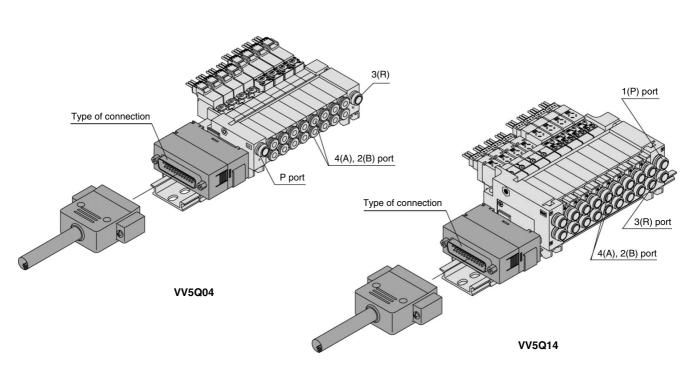
Manifold Specifications

	a opcomoducióne							
			Р	orting specificat	ions	Applicable (2)	Applicable	5 station
Series	Base model	Type of connection	Port location	Port	size (1)		solenoid	weight
			Port location	1(P), 3(R)	4(A), 2(B)	Stations	valve	(g)
VQ0000	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
VQ1000	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
VQ2000	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

Note 1) Inch-size One-touch fittings are also available. For details, refer to page 2-4-69.

Note 2) See page 2-4-69 for details.





VQC

SQ

VQ0

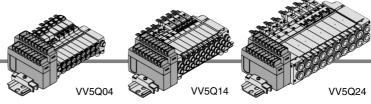
VQ4

VQ5

VQZ

VQD





- It is a standard terminal block type.
- Two quantities of terminals can be selected in accordance with the number of stations.

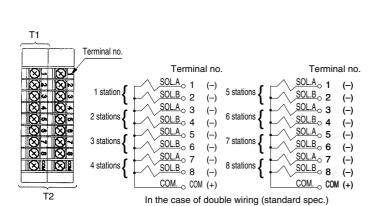
(8 terminals/16 terminals)

Maximum stations are 16.

Manifold Specifications

	Po			
Series	Port	Port size		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

Electrical wiring specifications



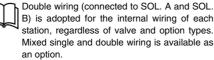
T1 (Terminal block of 1 row): 1 to 4 stations
T2 (Terminal block of 2 rows): 5 to 8 stations
T1 and T2 can be optionally chosen by adopt

T1 and T2 can be optionally chosen by adopting the combinations of single and double wiring (optional spec.), etc.

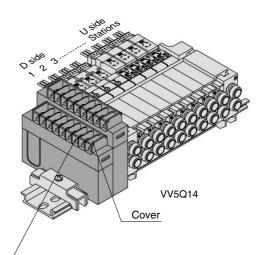
The quantity of terminal blocks used depends on the number of manifold stations.

Manifold	No. of terminals		
1 to 4 stations	1 row		
5 to 8 stations	2 rows		

Wiring other than those above is possible. See page 2-4-69 for details.



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

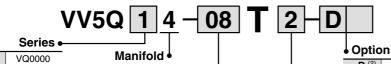


How to connect wires to terminal block

Open the terminal block cover to connect the wires to the terminal block.

(With M3 thread)

How to Order Manifold



 Stations ⋅

 01
 1 station

 :
 :

 16
 16 stations

Note 1)For negative common specifications, refer to "Option" on page 2-4-69.

Note 2) As option, the maximum number of stations can be increased based on special wiring specifications. For details, refer to page 2-4-69.

D (2) DIN rail mounting style	
Din fall mounting style	
K (3) Special wiring specifications (Except double w	viring)
N With name plate	
S Built-in silencer, direct exhaust (U side onl	y)

Note 1) When two or more symbols are specified, indicate them alphabetically.

Example) -DNS

Note 2) T kits are DIN rail mounted type, so include suffix -D.

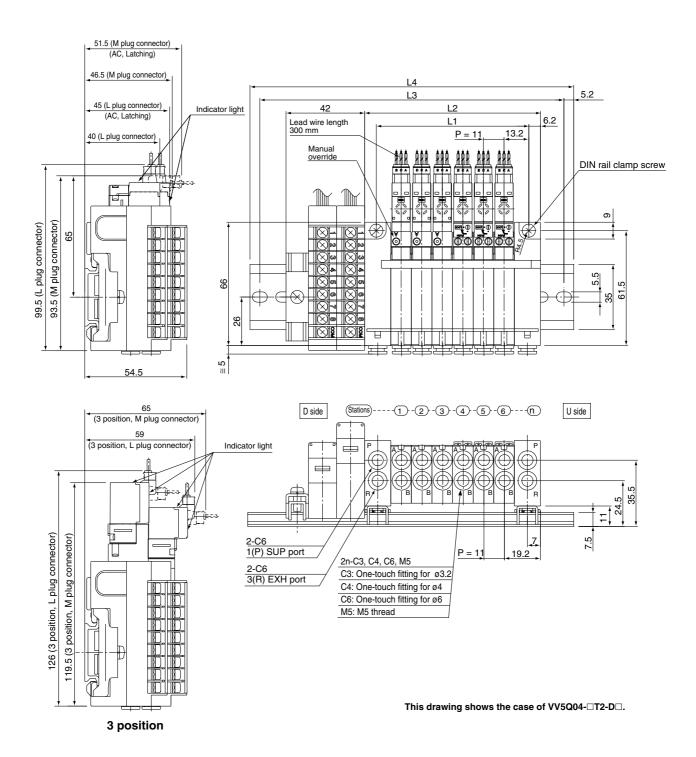
Note 3) Specify the wiring specifications in the manifold specification sheet.

Number of terminals

1	8 terminals in 1 row	Applicable stations 1 to 4 stations (Double), 8 stations (Single)				
2	16 terminals in 2 rows	Applicable stations 5 to 8 stations (Double), 16 stations (Single)				

Note) The number of terminal blocks can be chosen regardless of station qty. Suffix the option symbol, K, when the wiring specification is special.

VQ1000



me		

ı	חוט	ensi	ons					Form	ula L1 =	= 11n + ⁻	15.5, L2	= 11 n -	+ 28 n	Station	(Maxim	um 16 s	stations)
į	L n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
ĺ	L1	26.5	37.5	48.5	59.5	70.5	81.5	92.5	103.5	114.5	125.5	136.5	147.5	158.5	169.5	180.5	191.5
Ī	L2	39	50	61	72	83	94	105	116	127	138	149	160	171	182	193	204
	L3	112.5	112.5	125	137.5	150	162.5	175	187.5	200	200	212.5	225	237.5	250	262.5	275
Ī	L4	123	123	135.5	148	160.5	173	185.5	198	210.5	210.5	223	235.5	248	260.5	273	285.5

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

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

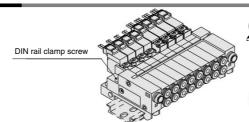
Built-in silencer, Direct exhaust [-S]

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

with drainage.

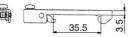






When ordering assemblies incorporated with a manifold, add suffix -D to the manifold no.

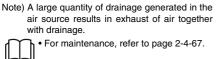






U side

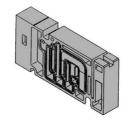
When ordering assemblies incorporated with a manifold, add suffix -S to the manifold no.



Manifold Option Parts for VQ1000

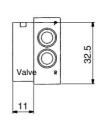
Blanking plate assembly VVQ1000-10A-4

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



Exhaus

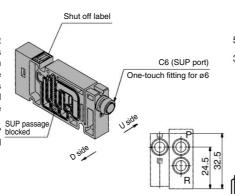
D side

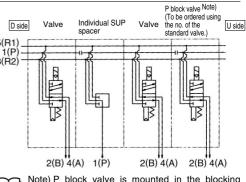


Individual SUP spacer VVQ1000-P-4-C6

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.)

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





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.

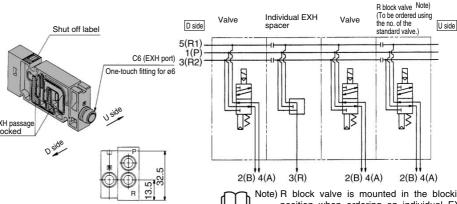
Individual EXH spacer VVQ1000-R-4-C6

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 blocked 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

In this case, install a spacer for individual EXH on the 1st station.



Note) R block valve is mounted in the blocking position when ordering an individual EXH spacer incorporated with a manifold. When separately ordering an individual EXH

spacer, separately order an R block valve.

Plug Lead Unit: Flip Type Series VQ0000/1000/2000

Manifold Option Parts for VQ1000

点 Block valve VQ1240-□-E

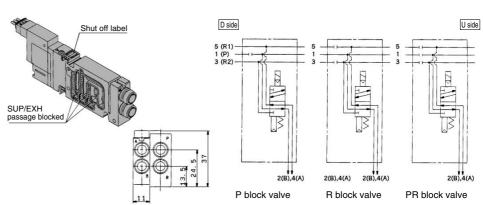
For a flip plug-in unit, block plate is built in the valve for blocking SUP and EXH passages. Since the no. is classified by the passage to be blocked, specify it by attaching the option no. to the valve no. The block valve is constructed so that D sides of SUPand EXH passages are blocked.

* 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 using R/PR block valve If the electrical entry is selected for an option for builtin silencer when F, P, T, S kit, there will not be the exhaust port on the D side end plate. In this case, mount an individual EXH spacer for the 1st station



SUP pass

EXH passage blocked

SUP/EXH ge blocke

For SUP passage block VQ1 ½4° -□-□□-P For EXH passage block For SUP/EXH passage block VQ1 ½41°-□-□□-R VQ1 1/2 41 - □ - □ - PR

VQC

SQ

VQ0

VQ4

VQ5

VQZ

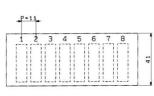
VQD

Name plate [-N4]

VVQ1000-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.





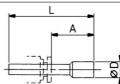
When ordering assemblies incorporated with manifold. suffix [-N] to the manifold no.

Blanking plug KQ2P- 04

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

Purchasing order is available in units of 10 pieces.





Dimensions

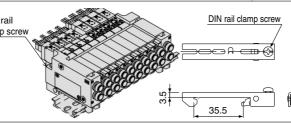
Applicable fittings size ød	Model	Α	L	D
3.2	KQ2P-23	16	31.5	5
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8

DIN rail mounting bracket VVQ1000-57A-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).

DIN rail clamp screw





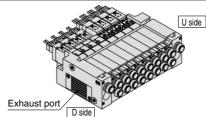
When ordering assemblies incorporated with manifold, add suffix manifold no. -D

Built-in silencer, Direct exhaust [-S]

This is an exhaust port on top of 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 airsource results in exhaust of air together with drainage

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





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

Silencer (For EXH port)

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





Dimensions

>	Series	Applicable fittings size ød	Model	A	L	D	Effective area (mm²)	Noise reduction (dB)
	VQ1000	6	AN103-X233	20	37	11	7	25

Port plug VVQ0000-58A

The plug is used to block the cylinder port when using a 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

valve no. Example) **VQ1140-5L-C6-A** L

A port, Plug





Manifold Option Parts

Double check block (Separated type): For VQ0000/1000

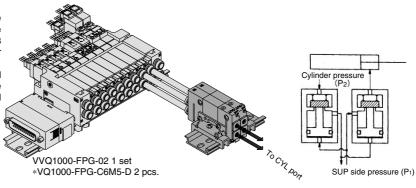
VQ1000-FPG-□□

It is used on the outlet side piping to keep the cylinder in the intermediate position for a long time. Combining the double check block with a built-in pilot type double check valve and a 3 position exhaust center solenoid valve will enable the cylinder to stop in the middle or maintain its position for a long time.

The combination with a two position single/double solenoid valve will permit this block to be used for preventing the dropping at the cylinder stroke end when the SUP residual pressure is released.

Specifications

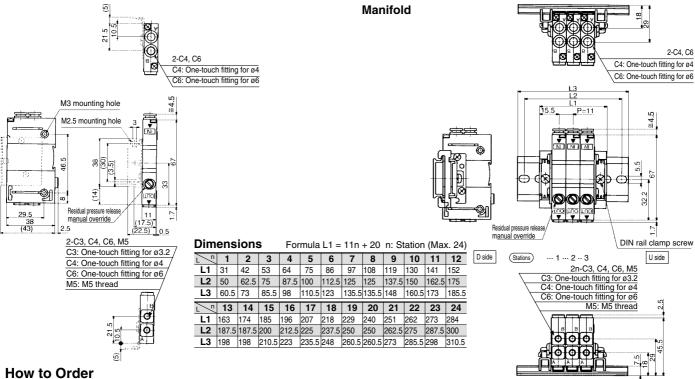
Max. operating pressure	0.8 MPa
Min. operating pressure	0.15 MPa
Ambient and fluid temperature	−5 to 50° C
Flow characteristics: C	0.60 dm3/(s.bar)
Max. operating frequency	180 CPM

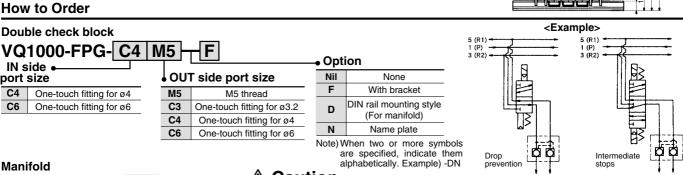




Note) Based on JIS B 8375-1981 (Supply pressure: 0.5 MPa)

Dimensions





VVQ1000-FPG- 06 **Stations**

> 01 16 16 stations

<Example>

VVQ1000-FPG-06····6 types of manifold *VQ1000-FPG-C4M5-D, 3 sets Double

Double check block *VQ1000-FPG-C6M5-D, 3 sets

- Air leakage from the pipe between the valve and cylinder or from the fittings will prevent the cylinder from stopping for a long time. Check the leakage using neutral household detergent, such as dish washing soap. Also check the cylinder's tube gasket, piston packing and rod packing for air leakage.
 Since One-touch fittings allow slight air leakage, screw piping (with M5 thread) is recommended when
- stopping the cylinder in the middle for a long time.

 Combining double check block with 3 position closed center or pressure center solenoid valve will not
 - M5 fitting assembly is attached, not incorporated into the double check block. After screwing in the M5 fittings, mount the assembly on the double check block. {Tightening torque: 0.8 to 1.2
- If the exhaust of the double check block is throttled too much, the cylinder may not operate properly and
- may not stop intermediately.

 Set the cylinder load so that the cylinder pressure will be within two times that of the supply pressure.



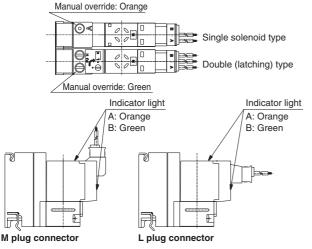
♠ Precautions

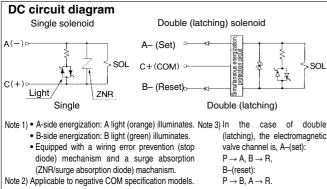
Be sure to read before handling. For Safety Instructions and Solenoid Valve Precautions, refer to page 2-9-2.

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

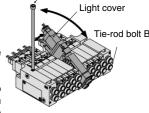
$oldsymbol{\Delta}$ Caution

<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.)



ie-rod bolt A

Mounting

Reverse the sequence of steps above to remount.

Tighten the tie-rod bolts with the tightening torque at the right table while using caution not to tighten the only one side unevenly.

Torque Applied to Tie-rod Bolt VQ0000 0.5 to 0.7 N·m VQ1000 1.0 to 1.4 N·m VQ2000

1.0 to 1.4 N·m

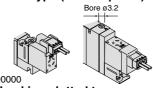
Note) Be careful not to push on the light cover while mounting/removing the valve

Double (Latching solenoid) Type

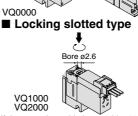
🕰 Warning

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

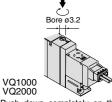
■ Push type (Tool required)



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

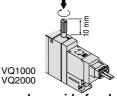


If the manual override is turned by 180° clockwise and the mark is adjusted to 1, then pushed in the direction of an arrow (\downarrow), it will be locked in the ON state. If the manual override is turned by 180 counterclockwise and ▶ mark is adjusted to 0, locking will be released and the manual override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



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.

■ 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

■ 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 ▶ mark is adjusted to A, then pushed in the direction of an arrow (♠), it will be back to the reset condition. (passage P → A)

 If the manual override is turned by 180°counterclockwise and the ▶ mark is adjusted to B, then pushed in the direction of an arrow (♠), it will
 - be back to the reset condition. (passage $P \rightarrow B$) (It is in the reset state at the time of shipment.)

⚠ Caution

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

2-4-66

VQC

SQ

VQ0

VQ4

VQ5

VQZ

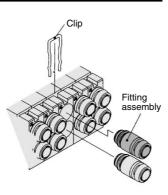
VQD

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				

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

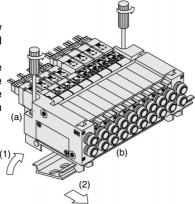
∕ Caution

<Procedure>

How to Remove

1. Loosen the clamp screw on side (a) of the end plate on both sides.

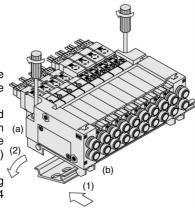
2. Lift side (a) of the manifold base and slide the end plate in the direction of (2) shown in the figure to remove.



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 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

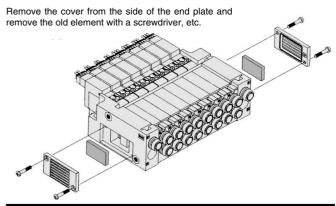
⚠ Caution

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				
Built-in silencer, direct exhaust (-S)	VVQ0000-82A-4	VVQ1000-82A-4	VVQ2000-82A-4				

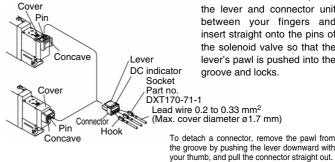
* The minimum order quantity is 10 pcs.



How to Use Plug Connector

⚠ Caution

Attaching and detaching connectors

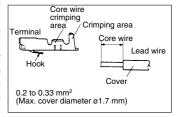


To attach a connector, hold the lever and connector unit between your fingers and insert straight onto the pins of the solenoid valve so that the lever's pawl is pushed into the groove and locks.

Lead wire 0.2 to 0.33 mm² (Max. cover diameter ø1.7 mm) To detach a connector, remove the pawl from

Crimping the lead wire and socket

Peel 3.2 to 3.7 mm of the tip of lead wire, enter the core wires and press contact it by a press tool. Be careful so that the cover of lead wire does not enter into the core press contacting part.



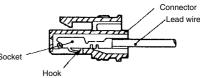
Attaching and detaching lead wires with sockets Attaching

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

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.



VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

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.

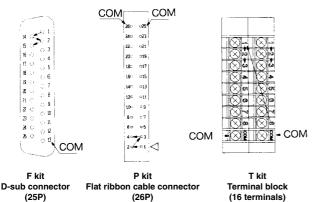
Example)

VV5Q14-09FS0-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. 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 kit (D-sub connector)		P kit (Flat ribbon cable connector)			T (Termina		S kit (Serial)	
Туре	F ⅓ □ 25P	F&A 15P	P ⅓ □ 26P	P&C 20P	P \ B 16P	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



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	ø1/4"
VQ2000	ø5/16"

How to order valves

VQ1140 - 5M - N

Cylinder port							
Syı	mbol	N1	N3	N7	N9		
Applicable tubing O.D. (Inch)		ø1/8"	ø5/32"	ø1/4"	ø5/16"		
^ D	VQ0000	0	0		_		
A, B port	VQ1000	_	0	0	_		
port	VQ2000	_	0	0	0		

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.

Specifications	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- ¹³/₁₄ A(N) -F425.

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

Others, option symbols: to be indicated alphabetically.

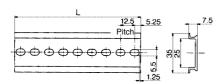
 When changing the manifold style into a DIN rail mount Order brackets for mounting a DIN rail. (Refer to "Option" on pages 2-4-60, 61 and 64.)

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

L dimension | 398 | 410.5 | 423 | 435.5

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



L Dimension $L = 12.5 \times n + 10.5$ No 10 4 6 35.5 48 60.5 73 85.5 98 110.5 123 135.5 23 L dimension 14 16 17 No 11 12 13 15 18 19 20 L dimension 148 160.5 173 185.5 198 210.5 223 235.5 248 260.5 No 21 30 22 23 24 25 26 27 28 L dimension | 273 | 285.5 | 298 310.5 323 335.5 348 360.5 373 385.5 40 No. 31 32 33 34 35 36 37 38 39

448 | 460.5

473 | 485.5

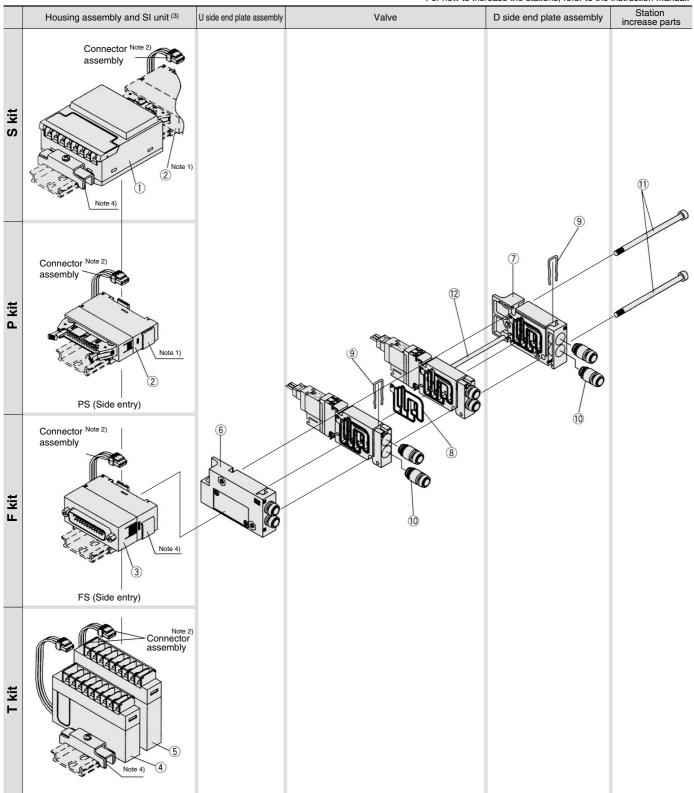
498 510.5

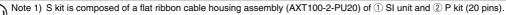
Series VQ

VQ1000 (VV5Q14)/Plug Lead Unit, Flip Type

(F, P, T, S kit)

* For how to increase the stations, refer to the instruction manual.





Note 2) Since no connector assymbly is included, order it separately. (Refer to page 2-4-69.)

Note 3) A housing assembly is not used for a C kit.

Note 4) A DIN rail clamping bracket is attached to each.

<Housing Assembly and SI Unit>

Housir	ng assem	bly and S	SI unit no.

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 Corporatio		
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 _S kit	AXT100-2-P _S □ (2)	Flat ribbon cable housing assembly □ = Number of pins: 26, 20, 16, 10		
3	F _S kit	AXT100-2-F _S □ (2)	D-sub connector housing assembly □ = Number of pins: 25, 15		
4)(3)	T kit	AXT100-2-TB1	Terminal block assembly (8 terminals)		
(5) ⁽³⁾	T kit	AXT100-2-TB2	Terminal block assembly (8 terminals)		

Note 1) S kit is composed of a flat ribbon cable housing assembly (AXT100-2-PS20) of ① SI unit and ② P kit (20 pins). Place an order for AXT100-2-PS20 separately.

Note 2) Top/vertical entry connector for FU and PU while side (horizontal) entry connector for FS and PS.

Note 3) Since no connector assembly is included, order it separately. (Refer to page 2-4-69.)

Note 4) In the case of standard specifications and double wiring, (4) is for 1 to 4 stations and (5) is for 5 to 8 stations.

<D Side End Plate Assembly>

6 D side end plate assembly no.



Note) The 10's fitting assembly is included.

→ Option

Nil: Common exhaust

S: Built-in silencer, direct exhaust (Applicable for C kit only)

<u Side End PlateAssembly No.>

7 U side end plate assembly no.

VVQ1000-2A-4-□

Option

Nil: Common exhaust

S: Built-in silencer, direct exhaust

Note) The @'s fitting assembly is included.

Note 1) Standard SUP/EXH port is C6.

<Replacement Parts>

No.	Part no.	Description	Material	Number
8	VVQ1000-80A-3-2	Seal	HNBR	12
9	VVQ1000-80A-4	Clip	Stainless steel	12

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

<Fittings Assembly>

10 Fittings assembly part no.

VVQ1000-50A-□

Port size

- C3: Applicable tubing ø3.2
- C4: Applicable tubing Ø4
- **C6**: Applicable tubing ø6 ⁽¹⁾

<Station Increase Parts>

_					
	No. (3)	Part no.	Description	Material	Number (1)
	11)	- VVQ1000-105A-4-□ ⁽²⁾ -	Tie-rod bolt	Carbon steel	2
	12		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) 11) and 12) are in one set.

Note 2) Purchasing order is available in units of 10 pieces.

VQC

SQ VQ0

VQ4

VQ5

VQZ

VQD