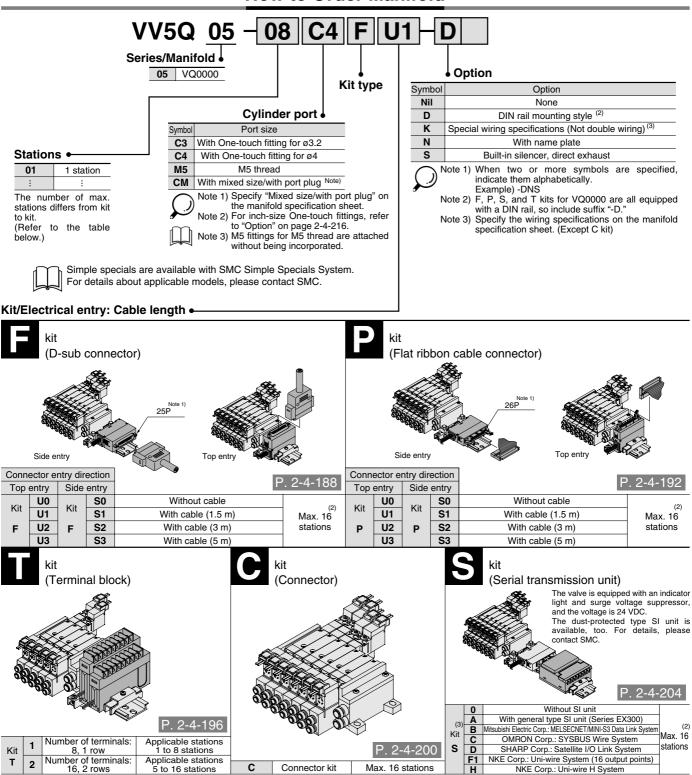
Series VQ0000 Base Mounted Plug Lead Unit

How to Order Manifold

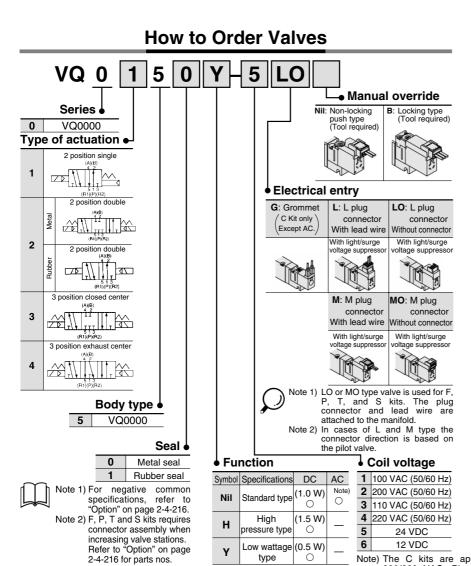


 η Note 1) Besides the above, F and P kits with different number of pins are available. Refer to page 2-4-215 for details.

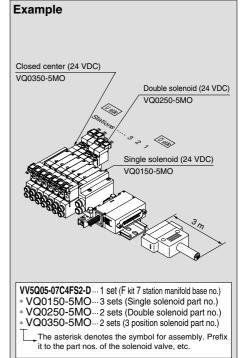
Note 2) For details, refer to page 2-4-216.

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.

Plug-in Unit Series VQ0000



How to Order Valve Manifold Assembly



VQC

SQ

VQ0

VQ4

VQ5

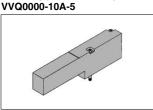
VQZ

VQD

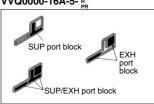
Specify the part numbers for valves and options together beneath the manifold base part number. Besides, when the arrangement will be complicated, specify them by means of the manifold specification sheet.

Manifold Option

Blanking plate assembly Name plate [-N*]



SUP/EXH block plate VVQ0000-16A-5-



- For cylinder port fittings part no., refer to page 2-4-213.
- For replacement parts, refer to page 2-4-231.

DIN rail mounting bracket [-D] VVQ0000-57A-5

SMC for other kits

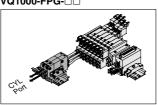


type

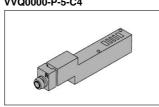
Note) For power consumption of AC type, refer to page 2-4-186.

0

Double check block VQ1000-FPG-□□

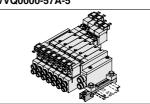


Individual SUP spacer VVQ0000-P-5-C4

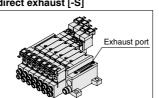


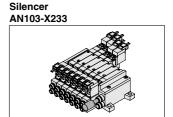
Note) The C kits are applicable to

200/220 VAC. Please contact



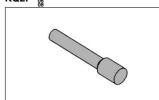
Built-in silencer, direct exhaust [-S]



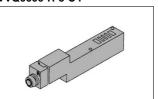


P. 2-4-208

Blanking plug KQ2P-



Individual EXH spacer VVQ0000-R-5-C4





Plug Lead Unit Series VQ0000/1000

Manifold Specifications

	_			Porting specifica	ations	(2)	Applicable	5 station
Series	Base model	Type of connection	Port	Port	size ⁽¹⁾	Applicable stations	solenoid valve	weight
			location	1(P), 3(R)	4(A), 2(B)	Stations		(g)
VQ0000	VV5Q05-□□□	■ F kit- D-sub connector ■ P kit-Flat ribbon cable connector ■ T kit-Terminal block ■ C kit-Individual connector ■ S kit-Serial transmission	Side	C6 (Ø6) Option Built-in silencer, direct exhaust	C3 (ø3.2) C4 (ø4) M5 (M5 thread)	1 to 16 stations	VQ0□50 VQ0□51	330 (Single) 400 (Double, 3 position)
VQ1000	VV5Q12-□□□	■ F kit–D-sub connector ■ P kit–Flat ribbon cable connector ■ T kit–Terminal block ■ C kit–Individual connector ■ S kit–Serial transmission	Side	C8 (Ø8) Option (Built-insilencer, direct exhaust)	C3 (ø3.2) C4 (ø4)C6 (ø6) M5 (M5 thread)	1 to 16 stations	VQ1□10 VQ1□11	818 (Single) 885 (Double, 3 position)

Note 1) Inch-size One-touch fittings are also available. For details, refer to page 2-4-216. Note 2) For details, refer to page 2-4-216.

VQC

SQ

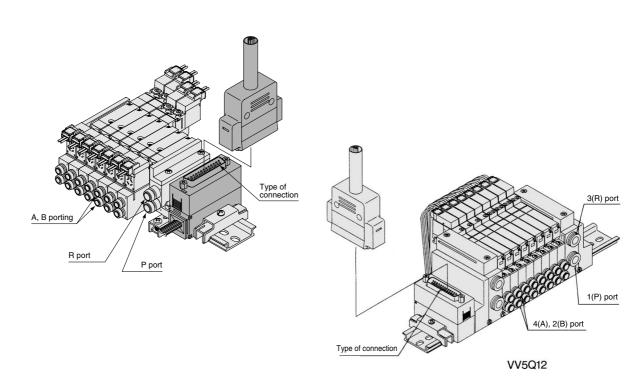
VQ0

VQ4

VQ5

VQZ

VQD



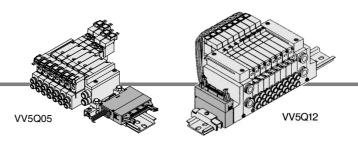


VQ0000/1000 Kit (Flat ribbon cable connector)

- 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.



Manifold Specifications

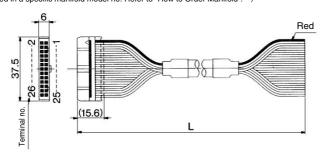
Cable assembly •

ĺ					
	Series	Port	Po	rt size	Applicable stations
		location	1(P), 3(R)	4(A), 2(B)	Stations
ĺ	VQ0000	Side	C6	C3, C4, M5	Max.16 stations
Ī	VQ1000	Side	C8	C3, C4, C6, M5	Max.16 stations

Flat Ribbon Cable (26 pins)



(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)

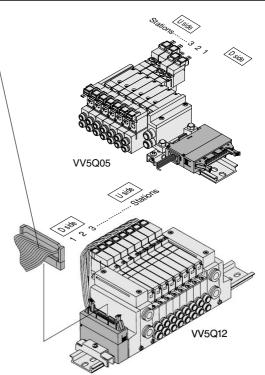
Cable length (L)	Assembly part no.	Note
1.5 m	AXT100-FC26-1	0-61-00
3 m	AXT100-FC26-2	Cable 26 cores x 28AWG
5 m	AXT100-FC26-3	X ZOAVVO

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

Connector manufacturers' example

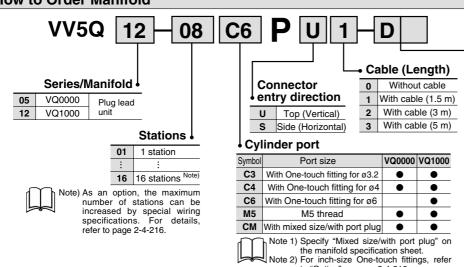
- Hirose Electric Co., Ltd.
- Japan Aviation Electronics Industry, Ltd.
- Sumitomo 3M Limited
- \bullet J.S.T. Mfg. Co., Ltd.
- Fujitsu Limited
- Oki Electric Cable Co., Ltd.

Note) Types with 10, 16, or 20 pin are also available. Refer to page 2-4-215 for details.



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

How to Order Manifold



Option

Symbol Option VQ0000 VQ1000

B With back pressure check valve (2)

D DIN rail mounting style (3)

K Special wiring specification (Not double wiring)

N With name plate

S Built-in silencer (Direct exhaust)

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

Note 2) Models with a suffix "-B" have the back pressure check valve at all manifold stations. If not all stations need this check valve, specify the stations where check valves are installed by using the manifold specification sheet.

Note 3) P kit of VQ0000 and all of VQ1000 are equipped with a DIN rail, so indicate suffix "D".

Note 4) Specify the wiring specifications on the manifold specification sheet.



to "Option" on page 2-4-216.

VQC

SQ

VQ0

VQ4

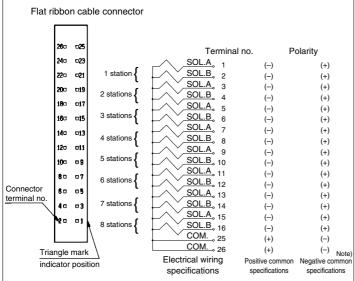
VQ5

VQZ

1 42

VQD

Electrical wiring specifications



As the standard electrical wiring specifications, double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station for 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 2-4-216.

How to Order Valves

Note) When using the negative commons specifications, use valves for negative common. (Refer to page 2-4-216.)

How to Order Manifold Assembly

Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>

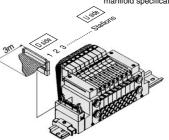
Flat ribbon cable kit with 3 m cable

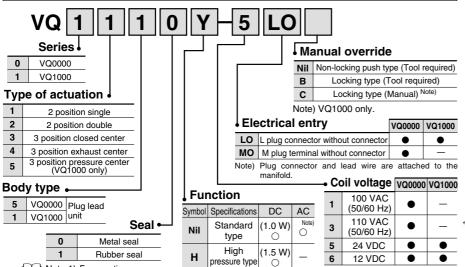
VV5Q12-08C6PU1-D ...1 set-Manifold base no.

*VQ1110-5LO ······4 sets-Valve part no. (Stations 1 to 4))
*VQ1210-5LO ······3 sets-Valve part no. (Stations 5 to 8)

Prefix the asterisk to the part nos. of the solenoid valve, etc.

Write sequentially from the 1st station on the D side. When part nos. written collectively are complicated, specify by using the manifold specification sheet.





Low wattage (0.5 W)

Note) For power consumption

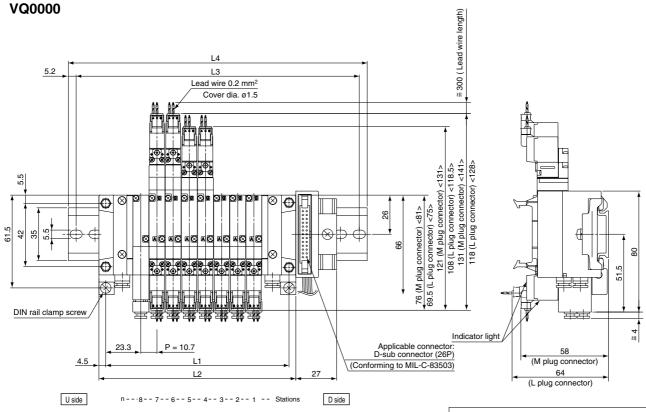
of AC type, refer to page 2-4-186.

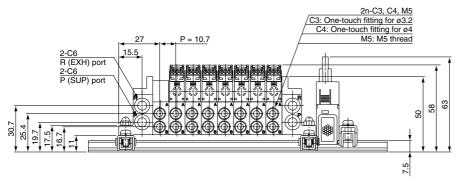
type

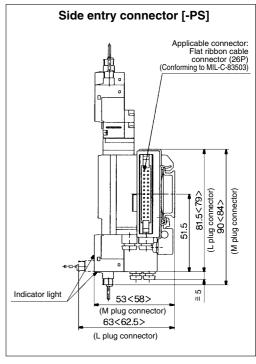
Note 1) For negative common Note 2) specifications, refer to "Option" on page 2-4-126.
Connector assembly

Connector assembly will be required when the P kits add a valve. For part nos., refer to "Option" on page 2-4-









< >: AC

Dimensions: Top Entry Connector [-PU]

Formula L1 = 10.7n + 36, L2 = 10.7n + 45 n: Station (Maximum 16 stations)

14 196.5 207.2 46.7 57.4 68.1 78.8 89.5 100.2 110.9 121.6 132.3 143 153.7 164.4 175.1 185.8 L1 55.7 66.4 77.1 87.8 98.5 109.2 119.9 130.6 141.3 152 162.7 173.4 184.1 194.8 205.5 216.2 112.5 125 137.5 150 262.5 275 125 162.5 175 187.5 200 212.5 225 237.5 200 250 123 | 135.5 | 135.5 | 148 | 160.5 | 173 185.5 198 210.5 210.5 223 235.5 248 260.5 273 285.5

Dimensions: Side Entry Connector [-PS]

۲ /ء	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L3	137.5	150	150	162.5	175	187.5	200	212.5	225	225	237.5	250	262.5	275	287.5	300
L4	148	160.5	160.5	173	185.5	198	210.5	223	235.5	235.5	248	260.5	273	285.5	298	310.5

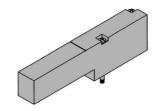
Series VQ0000

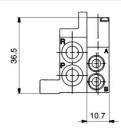
Manifold Option Parts for VQ0000

Blanking plate assembly VVQ0000-10A-5



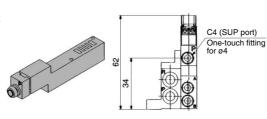
It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.

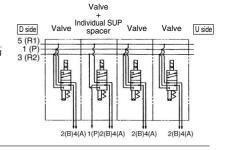




Individual SUP spacer VVQ0000-P-5-C4

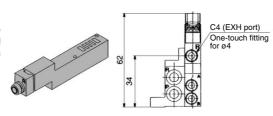
When the same manifold is to be used for different pressures, this spacer is mounted under the valve to equip each valve with an individual supply port.

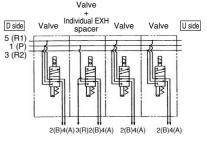




Individual EXH spacer VVQ0000-R-5-C4

When a valve exhaust affects other stations due to the circuit configuration, this spacer is mounted under the valve to equip each valve with an individual valve exhaust.





SUP/EXH block plate VVQ0000-16A-5- $_{R\ (EXH)}^{P\ (SUP)}$ PR (SUP/EXH)

1(P) (For SUP)

When different pressures, high and low, are supplied to one manifold, block a plate is inserted between the stations under different pressures.

3(R) (For EXH)

When a valve exhaust affects other stations due to the circuit configuration, this plate is used between the stations where exhaust should be separated.

1(P), 3(R) (For SUP/EXH)

When blocking SUP and EXH simultaneously, SUP/EXH block plate (PR) is used.

 Specify the number of stations on the manifold specification sheet.

<Blocking indication label>

When blocking the SUP, EXH passage with a SUP, EXH block plate, 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.

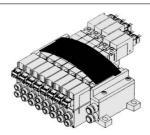
SUP passage blocked (VVQ0000-16A-5-PR) SUP/EXH port block EXH port block SUP/EXH port block EXH passage blocked (VVQ0000-16A-5-PR)

Name plate [-N*]

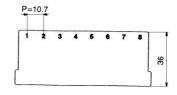
VVQ0000-N5-Station (1 to Max. stations)

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.



Plug-in Unit Series VQ0000

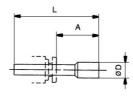
Blanking plug (For One-touch fittings)

KQ2P- 04

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

Purchasing order is available in units of 10 pieces.





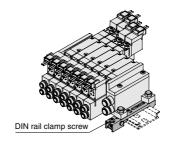
Dimensions

Applicable fitting size ød	Model	A	L	D
3.2	KQ2P-23	16	31.5	3.2
4	KQP-04	16	32	6
6	KQP-06	18	35	8

DIN rail mounting bracket [-D] VVQ0000-57A-5 (VQ0000)

It is used for mounting a VV5Q05 type 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 set of manifold (2 DIN rail mounting brackets).



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





VQ4 VQ5

VQC

SQ

VQ0

VQZ

* When ordering assemblies incorporated with a VQD

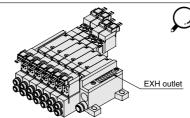
Built-in silencer, Direct exhaust [-S]

This is an exhaust port on the manifold end plate. The builtin silencer exhibits an excellent noise suppression effect. (Silencing effect: 20 dB)



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

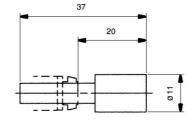
• For maintenance, refer to page 2-4-214.



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

VQ0000 6 AN103-X233 20 37 11 7 25	Series	Applicable fitting size ød	Model	A	L	D	Effective area (mm²)	Noise reductio (dB)
20000 0 7.11.00 7.12.00 20 07 11 7 25	VQ0000	6	AN103-X233	20	37	11	7	25

VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

⚠ Precautions 1

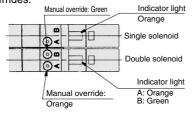
Be sure to read before handling. For Safety Instructions and Solenoid Valve Precautions, refer to page 2-9-2.

Light/Surge Voltage Suppressor

⚠ Caution

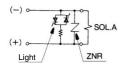
In the case of VQ1000, the standard model is equipped with an indicator light and surge voltage suppressor. The lighting positions are concentrated on one side for both single solenoid type and double solenoid type.

For the double solenoid type, A side and B side energization are indicated by two colors which match the colors of the manual overrides.



* In the case of VQ0000, solenoid and manual override on both sides.

VQ1000 (DC)/Single solenoid



 In the case of VQ0000, solenoid and manual override on both sides.

Note) A side energization:

DC circuit diagram

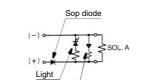
VQ0000

A light (orange) illuminates. With wrong wiring preventing ability (stop diode)

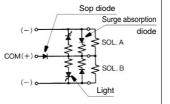
B side energization:

B light (green) illuminates.
Equipped with a surge absorption

(surge absorption diode mechanism.



VQ1000/Double solenoid



Manual Override

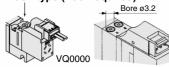
⚠ Warning

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

Push type is standard. (Tool required)

Option: Locking type (Tool required/Manual)

■ 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.

■ Locking type (Tool required) <Option>

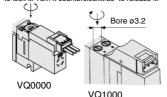
If the manual override is turned by 180° clockwise and the ▶ mark is adjusted to 1, it will be locked in the ON state.

1, it will be locked in the ON state.

If the manual override is turned by 180° counterclockwise and the ▶ mark is adjusted to 0, locking will be released and the manual override will return.

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

VQ1000



■ Locking type (Manual) <Option>



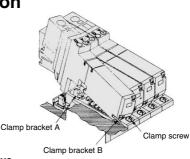
Push down on the manual override button with a small screwdriver or with your fingers until it stops. Turn clockwise by 90° to lock it. Turn it counterclockwise to release it.

↑ VQ1000

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

How to Mount/Remove Solenoid Valve

∧ Caution



How to Remove

- **1.** Loosen the clamp screw until it turns freely. (The screw is captive.)
- 2. Lift the coil side of the valve body while pressing down slightly on the screw head and remove it from the clamp bracket B. When the screw head cannot be pressed easily, gently press the area near the manual override of the valve.

How to Remove

- Press down on the clamp screw. → Clamp bracket A opens. Diagonally insert the hook on the valve end plate side into clamp B.
- 2. Press the valve body downward. (When the screw is released, it will be locked by clamp bracket A.)
- Tighten the clamp screw. (Proper tightening torque: 0.25 to 0.35 N·m)

Mounting

- Dust on the sealing surface of the gasket or solenoid valve can cause air leakage.
- 2. In the case of VQ0000, valve mounting screw clamping torque is 0.18 to 0.25 N·m.

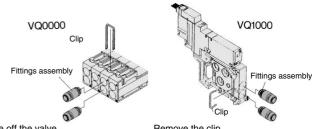
Replacement of Cylinder Port Fittings

⚠ Caution

The cylinder port fittings are a cassette for easy replacement.

The fittings are blocked by a clip inserted from the top of manifold. Remove the clip with a screwdriver to remove fittings.

For replacement, insert the fitting assembly until it strikes against the inside walland then re-insert the clip to specified position.



Take off the valve and remove the clip.

Remove the clip after taking off the manifold.

America de la Ambiento O.D.	Fitting assembly part no.			
Applicable tubing O.D.	VQ0000	VQ1000		
Applicable tubing ø3.2	VVQ1000-51A-C3	VVQ1000-50A-C3		
Applicable tubing ø4	VVQ1000-51A-C4	VVQ1000-50A-C4		
Applicable tubing ø6	_	VVQ1000-50A-C6		
M5	_	VVQ1000-50A-M5		

* Refer to "Option" on pages 2-4-208 to 2-4-211 for other types of fittings.

⚠ Caution

- Use caution that O-rings must be free from scratches and dust. Otherwise, air leakage may result.
- After screwing in the fittings, mount the M5 fitting assembly on the manifold base. (Tightening torque 0.8 to 1.2 N·m)
- 3. Purchasing order is available in units of 10 pieces.

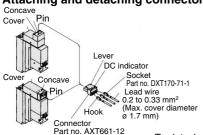
⚠ Precautions 2

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

How to Use Plug Connector

⚠ Caution

Attaching and detaching connectors

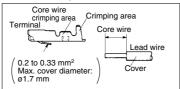


To attach a connector, hold the lever and connector unit between your fingers and insert straight onto the pins of the solenoid valve so that the lever's pawl is pushed into the groove and locks.

Crimping the lead wire and socket

Peel 3.2 to 3.7 mm of the tip of lead wire, neatly into a socket 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. To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb, and pull the connector straight out.



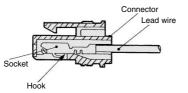
Attaching and detaching lead wires with sockets Attaching

Insert a socket in the square hole (Indicated as \bigoplus , \bigoplus) 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

For pulling-out the socket from the connector, pull out the lead wire while pushing the hook of the socket with a fine point (ca.1 mm) tool.

If the socket is to be re-used, spread the hook to the outside.



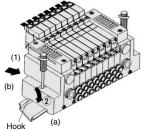
Mounting/Removing from the DIN Rail (VQ1000)

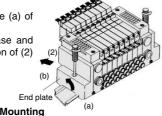
⚠ Caution

Removing

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.





Hook side (b) of the manifold base on the DIN rail.

- **2.** Press side (a) and mount the end plate on the DIN rail.
- Tighten the clamp screw on side (a) of the end plate. The proper tightening torque for screws is 1.2 to 1.6 N·m.

Enclosure IP65

⚠ Caution

Wires, cables, connectors, etc. used for models conforming to IP65 should also have enclosures equivalent to or of stricter than IP65.

How to Calculate the Flow Rate

⚠ Caution

2-4-214

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

Built-in Silencer Replacement

⚠ 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 and cause malfunction. Clean or replace the dirty element.

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

Element part no.

Type	Element part no.				
туре	VQ0000	VQ1000			
Built-in silencer, direct exhaust (-S)	VVQ0000-82A-1	VVQ1000-82A-1			

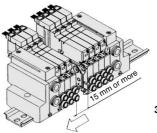
* The minimum order quantity is 10 pcs.

Manifold Base Station Increasing Procedure (VQ1000)

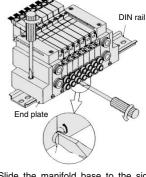
⚠ Caution

1. Loosen the clamp screw on the top surface of the end plate on one side.

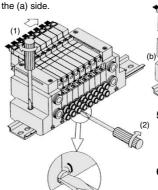
Turn the manual override between the manifold blocks with a regular screwdriver, etc. in a couterclockwise direction.



4. Mount the station increasing manifold block assembly and solenoid valve on the DIN rail. Install it to the DIN rail by applying the hook on the (b) side of the manifold block and pushing down



Slide the manifold base to the side where the screw is loosened. Make a clearance of 15 mm or more.



5. Slide the manifold bases with a slight clearance in-between and lock them by turning the manual override between the manifold blocks

clockwise.
6. Tighten the screw on the top surface of the end plate, and the station has been added.

(Proper tightening torque 1.2 to 1.6

Manifold Block Assembly

	<u> </u>
VQ1000	Port size
VVQ1000-1A-2-C3	With One-touch fitting for ø3.2
VVQ1000-1A-2-C4	With One-touch fitting for ø4
VVQ1000-1A-2-C6	With One-touch fitting for ø6
VVQ1000-1A-2-M5	M5 thread



VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

Option

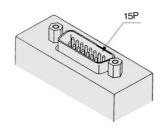
Different Number of Connector Pins

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.

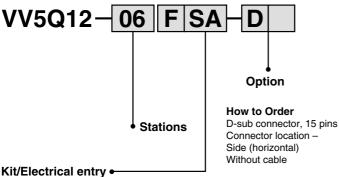
Place an order for the cable assembly separately.



kit (D-sub connector) 15 pins



How to order manifold

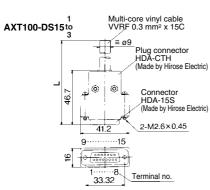


Kib Electrical entry

Pins	Тор	entry	Side entry		
15P (Max. 7 stations)	Kit F	UA	Kit F	SA	

Wiring Specifications

* In the same way as the 25-pin models (standard), terminal no. 1 for is SOL.A at the 1st station, terminal no. 9 for SOL.B at the 1st station, and terminal no. 8 for COM.



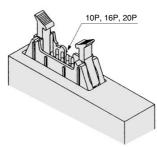
Terminal no.	Lead wire color	Dot marking
1	Black	None
2	Brown	None
3	Red	None
4	Orange	None
5	Yellow	None
6	Pink	None
7	Blue	None
8	Purple	White
9	Gray	Black
10	White	Black
11	White	Red
12	Yellow	Red
13	Orange	Red
14	Yellow	Black
15	Pink	Black

D-sub Connector Cable Assembly

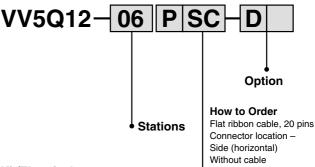
Cable length (L)	15P
1.5 m	AXT100-DS15-1
3 m	AXT100-DS15-2
5 m	AXT100-DS15-3

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

kit (Flat ribbon cable connector) 10 pins, 16 pins, 20 pins



How to order manifold

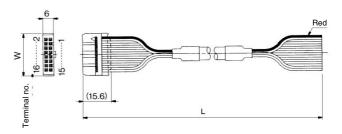


Kit/Electrical entry•

Pins	Top entry		Side	entry
10P (Max. 4 stations)	IZ'a	UA	IZ:	SA
16P (Max. 7 stations)	Kit	UB	- Kit - P	SB
20P (Max. 9 stations)	Ρ	UC		SC

Wiring Specifications

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



Flat Ribbon Cable Assembly

Pins 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.

Series VQ0000/1000

Option

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

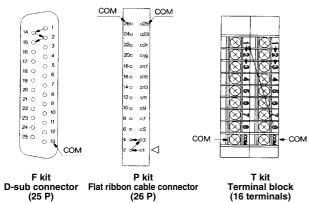
Indicate an option symbol "-K", for the manifold no. and be sure to specify the mounting position and number of stations of the single and double wiring by means of the manifold specification sheet.

Example) VV5Q05-08C4FU1-DKS

Others, option symbols: to be indicated alphabetically.

2. Wiring specifications

With the A side solenoid of the 1st station as no. 1 (meaning, to be connected to no. 1 terminal), without making any terminals vacant.



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 max. number given in the following table.

Kit	F kit (D-sub connector)		P kit (Flat ribbon cable connector)			(Ter	kit minal ock)	S kit (Serial transmission)	
Туре	F s □ 25P	F s A 15P	P [∪] □ 26P	P s C 20P	P s B 16P	P s A 10P	T1	T2	S□
Max. points	16 ^{Note)}	14	16 ^{Note)}	16 ^{Note)}	14	8	8	16	16

Note) Due to the limitation of internal wiring.

Negative Common Specifications [Series VQ1□10]

The following valve part numbers are for negative COM specifications. Manifold model no. is the same as the standard products.

How to order negative COM valves

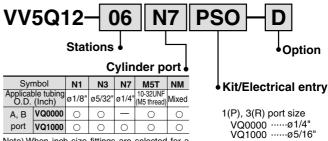


Negative common specifications

 \ast Series VQ0 \square 50 has no polarity, so the negative common is applicable to standard models.

Inch-size One-touch Fittings

Valve with inch-size One-touch fittings is shown below.



Note) When inch size fittings are selected for a cylinder port, use inch size fittings for both P and R port, too.

Plug Connector Assembly Model

Connector assembly will be required when the F, P, S kits add a valve. Specify the style of valve and connector assembly.

Connector Assembly Part No.

Specifi	Specifications				
Single VQ0000	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

The part numbers above are applicable to 2 to 10 stations. 11 to 16 stations: "AXT661-\frac{14}{12}A(N)-F-425".

DIN Rail Mounting

Each manifold can be mounted on a DIN rail. Order it by indicating a DIN rail mounting option symbol, "-D". In this case, a DIN rail which is approx. 30 mm longer than the manifold with the specified number of stations is attached. Other than this, it is applicable for the following cases.

 When DIN rail is unnecessary (C kit VQ0000 only) Indicate the option symbol, -DO, for the manifold no.

Example)

VV5Q05-08C4C-DOS

Others, option symbols: to be indicated alphabetically.

 When using DIN rail longer than the manifold with specified number of stations (VQ0000/VQ1000)

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

Example)

VV5Q05-08C4FU1-D09S

DIN rail for 9 stations • Others, option symbols:

Others, option symbols: to be indicated alphabetically.

 When changing the manifold style into a DIN rail mounting style (VQ0000 only)

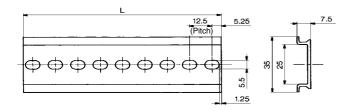
Order brackets for mounting a DIN rail. (Refer to "Option" on page 2-4-209.)

No. VVQ0000-57A-5 2 pcs. per one set.

When ordering DIN rail only (VQ0000 only)

DIN rail no.: AXT100-DR-□

As for \Box , specify the number from the DIN rail table. For L dimension, refer to the dimensions of each kit.



L Dimension

 $L = 12.5 \times n + 10.5$

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

SQ

VQC

VQ0

VQ4

VQ5

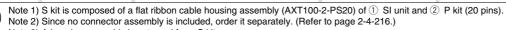
VQZ

VQD

Exploded View: VQ0000/Plug Lead Unit

(F, P, C, S kit)

* For how to increase the stations, refer to the instruction manual. Housing assembly and SI unit Note 3) Tie-rod U side end block assembly Manifold block assembly D side end block assembly Note 2) Connector assembly Skit S Note 1) Note 2) Connector assembly Pĸ∺ 7 The drawing shows PU. (Top entry connector) Connector assembly FĶ The drawing shows FU. (Top entry connector) Note 2) Connector assemb 至



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>

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

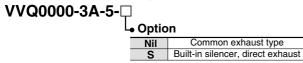
Note 2) Top/vertical entry connector for FU and PU while side (horizontal) entry connector for FS and PS.

Note 3) Since no connector assembly is included, order it separately. (Refer to page 2-4-216.)

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

<D Side End Plate Assembly>

6 D side end plate assembly no.



Note) The 12's fitting assembly is included.

<U Side End Plate Assembly>

7 U side end plate assembly no.

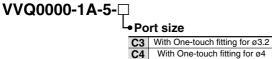




Common exhaust type Nil Built-in silencer, direct exhaust

<Manifold Block Assembly>

8 manifold block assembly no.

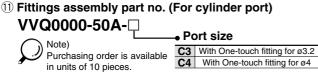


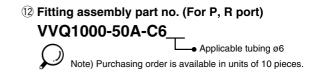
<Replacement Parts for Manifold Block> **Replaceable Parts**

No.	Part no.	Description	Material	Number
9	VVQ0000-80A-5-2	Seal	HNBR	12
10	VVQ0000-80A-5-4	Clip	HNBR	12

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

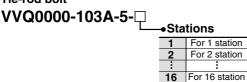
<Fitting Assembly>





<Tie-rod Bolt>

13 Tie-rod bolt







VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD