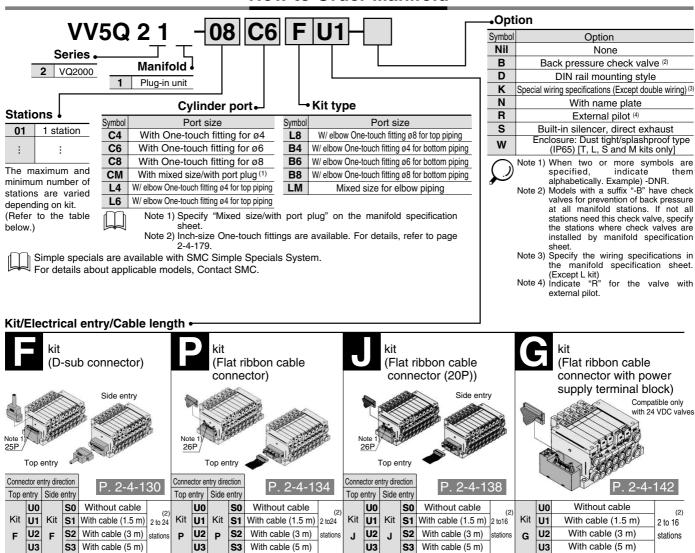


How to Order Manifold



VQC

SQ

VQ0

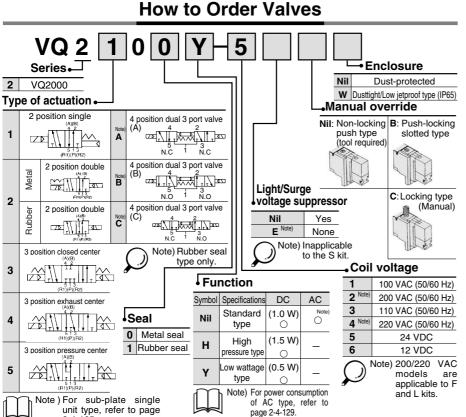
VQ4

VQ5

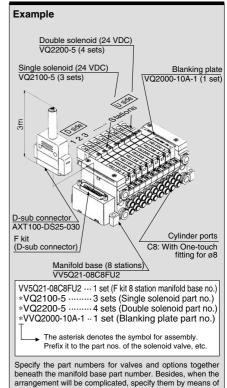
VQZ

VQD

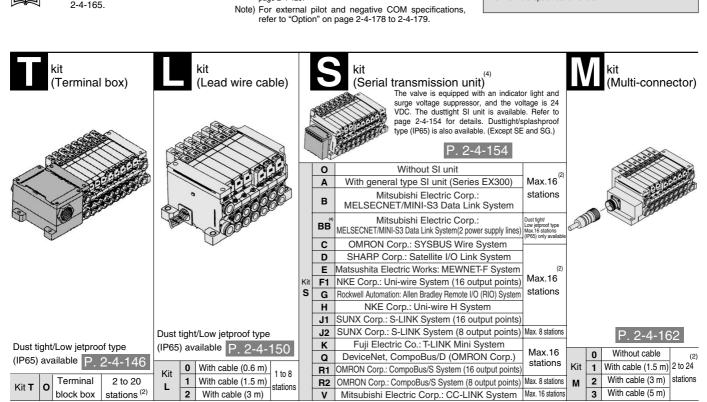
Plug-in Unit Series VQ2000



How to Order Manifold Assembly



the manifold specification sheet.



Note 1) Besides the above. F and P kits with different number of pins are available. Refer to page 2-4-177 for details.

Note 2) For details, refer to page 2-4-178.

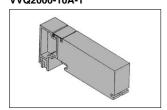
Note 3) Refer to the pages on respective kits for IP65 type. (T, L and S kits)

Note 4) Kits with IP65 enclosure applicable to input/output are also available. Refer to page 2-4-162 for details.

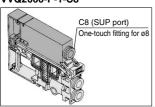
Series VQ2000

Manifold Option P. 2-4-210

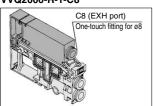
Blanking plate assembly VVQ2000-10A-1



Individual SUP spacer VVQ2000-P-1-C8



Individual EXH spacer VVQ2000-R-1-C8



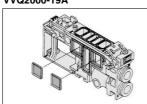
Back pressure check valve assembly [-B] VVQ2000-18A



SUP block plate VVQ2000-16A



EXH block plate VVQ2000-19A



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



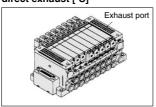
Elbow fitting assembly VVQ2000-F-L (C4, C6, C8)



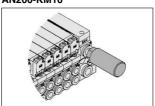
DIN rail mounting bracket [-D] VVQ2000-57A



Built-in silencer, direct exhaust [-S]



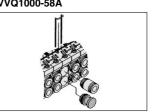
Silencer (For EXH port) AN200-KM10



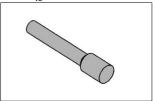
2 stations matching fitting assembly VVQ2000-52A-C10



Port plug VVQ1000-58A



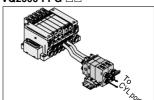
Blanking plug KQ2P- %





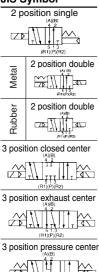
- For cylinder port fittings part no., refer to page 2-4-175.
 For replacement parts, refer to page 2-4-227.

Double check block VQ2000-FPG-□□



Plug-in Unit Series VQ1000/2000

JIS Symbol



Standard Specifications

	stariaara opoomoationo						
	Valve construction		Metal seal	Rubber seal			
	Fluid		Air/Inert gas	Air/Inert gas			
	Maximum operating	g pressure	0.7 MPa (High pres	sure type: 0.8 MPa)			
ons		Single	0.1 MPa	0.15 MPa			
icati	Minimum	Double	0.1 MPa	0.1 MPa			
)ecif	operating pressure	3 position	0.1 MPa	0.2 MPa			
Valve specifications	Ambient and fluid t	emperature	-10 to	50°C ⁽¹⁾			
\al _\	Lubrication		Not	required			
	Manual override		Push type/Locking type (Tool required, Manual type) Option				
	Impact/Vibration re	sistance (2)	150	/30 m/s²			
	Enclosure		Dust-protected, Dust tight/Low jetproof type (IP65) (5)				
	Coil rated voltage		12 , 24 VDC, 100, 110, 200, 220 VAC (50/60 Hz)				
	Allowable voltage f	luctuation	±10% of rated voltage				
	Coil insulation type	1	Class B or equivalent				
ē		24 VDC	1 W DC (42 mA), 1.5 W DC	(63 mA) ⁽³⁾ , 0.5 W DC (21 mA) ⁽⁴⁾			
Solenoid		12 VDC	1 W DC (83 mA), 1.5 W DC ((125 mA) ⁽³⁾ , 0.5 W DC (42 mA) ⁽⁴⁾			
So	Power	100 VAC	Inrush 1.2 VA (12 mA), Holding 1.2 VA (12 mA)			
	consumption (Current)	110 VAC	Inrush 1.3 VA (12 mA), Holding 1.3 VA (12 mA)				
		200 VAC	Inrush 2.4 VA (12 mA), Holding 2.4 VA (12 mA)				
		220 VAC	Inrush 2.6 VA (12 mA), Holding 2.6 VA (12 m				

Note 1) Use dry air to prevent condensation when operating at low temperatures.

Note 2) Impact resistance ··· No malfunction occurred when it is tested with a drop tester in the axial direction and at the right angles to the main valve and armature in both energized and de-

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

Vibration resistance ··· No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at

the right angles to the main valve and armature. (Values at the initial period)

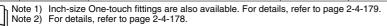
Note 3) Value for high voltage type (1.5 W)

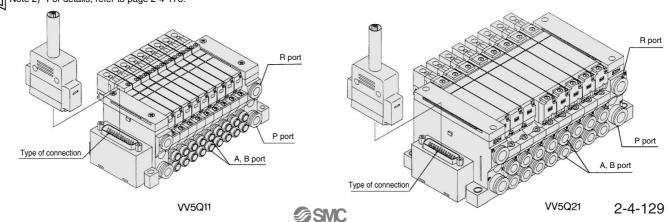
Note 4) Value for low voltage type (0.5 W)

Note 5) Dusttight/Low jetproof type (IP65) is available on T, L, S and M kits of VQ2000.

Manifold Specifications

	Dia Opcom		_					
			Po	rting specificatio	ns	(2)		5 station
Series	Base model	Type of connection	Dowt location	Port size (1)		Applicable stations	Applicable solenoid valve	weight
			Port location	1(P), 3(R)	4(A), 2(B)	Stations	Soleliola valve	(g)
		■ F kit–D-sub connector						
		■ P kit–Flat ribbon cable connector		C8 (Ø8) Option Built-in silencer,	C3 (ø3.2) C4(ø4) C6 (ø6)	F, P, T kits		
		■ J kit-Flat ribbon cable connector (20P)				2 to 24 stations		628 (Single) 759 (Double, 3 position)
VQ1000	VV5Q11-000	■ G kit-Flat ribbon cable connector with terminal block	Side			J, G, S kit 2 to 16 stations		
		■ T kit–Terminal box		direct exhaust	M5 (M5 thread)	/ L kit \		
		■ L kit–Lead wire cable			1	1 to 8 stations		
		■ S kit–Serial transmission unit						
		■ F kit–D-sub connector				/ F, P kits		
		■ P kit-Flat ribbon cable connector		C10 (ø10)		2 to 24 stations		
		■ J kit-Flat ribbon cable connector (20P)		` ′	C4 (ø4)	(J, G, S kit)	\ <u>'</u>	1051
VQ2000	VV5Q21-□□□	■ G kit-Flat ribbon cable connector with terminal block	Side	Option Built-in	C6 (ø6)	2 to 16 stations	VQ2□00	(Single)
* Q2000	110021-000	■ T kit–Terminal box	Side	silencer,	C8 (ø8)	L kit 1 to 8 stations	VQ2□01	1144 (Double, 3 position)
		■ L kit-Lead wire cable		\direct exhaust /	00 (90)	1		
		■ S kit-Serial transmission unit				T kit 2 to 20 stations		
		■ M kit-Multi-connector				(2 to 20 stations)		





VQC

SQ

VQ0 VQ4

VQ5

VQZ

VQD

VQ1000/2000 Kit (Terminal block box kit)

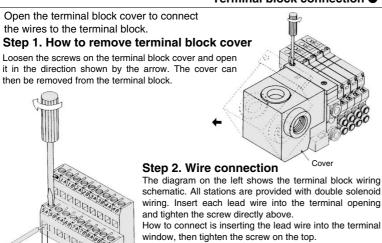
IP65 compliant

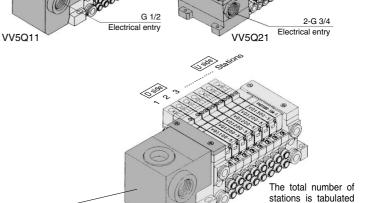
- This kit has a small terminal box inside a junction box. The electrical entry port {VQ1000: G 1/2, VQ2000: G 3/4} permits connection of conduit fittings.
- Maximum stations are 24.
- Enclosure: Dusttight/Low jetproof type (IP65) compliant (Series

Manifold Specifications

	Р	orting spe			
Series	Port		Port size	Applicable stations	
	location	1(P), 3(R)			
VQ1000	Side	C8	C3, C4, C6, M5	Max. 24 stations	
VQ2000	Side	C10	C4, C6, C8	Max. 20 stations	

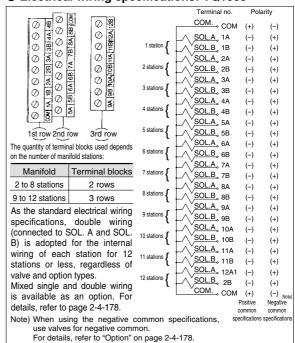
Terminal block connection ●





● Electrical wiring specifications: VQ1000

starting from station one on the D side.



Hook groove (a) on shaft (b) and close the cover.

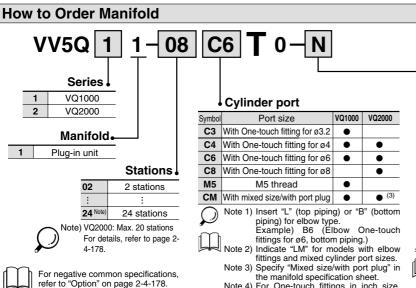
For negative common specifications. refer to "Option" on page 2-4-178.

Step 3. How to replace

terminal block cover

Then tighten the screws.

2.5



Option

Symbol	Option	VQ1000	VQ2000	Note
Nil	None	•	•	
В	With back pressure check valve	•	•	(2)
D	DIN rail mounting style	•	•	
G1	1 set of regulator unit			
G2	2 sets of regulator unit	•		(3)
G3	3 sets of regulator unit			
J□	With vacuum ejector unit	•		(4)
K	Special wiring specifications (Not double wiring)	•	•	(5)
N	With name plate	•	•	
R	R External pilot		•	(6)
s	Built-in silencer, direct exhaust	•	•	
W	Enclosure: Dusttight/Low jetproof type (IP65)		•	

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

alphabetically. Example) -BRS
Note 2) Models with a suffix "-B" have check valves for prevention of Note 2) Models with a suffix "-B" have check valves for prevention of back pressure 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) Specify the mounting position in the manifold specification sheet.

Note 4) Refer to page 2-4-170 for the details of ejector mounted styles. A combination of "I" and "N" is unavailable.

styles. A combination of "J" and "N" is unavailable.

Note 5) Specify the wiring specifications in the manifold specification sheet.

Note 6) Indicate "R" for the valve with external pilot.

Note 4) For One-touch fittings in inch size, refer to "Option" on page 2-4-179.

VQC

SQ

VQ0

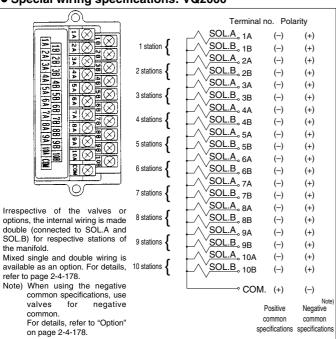
VQ4

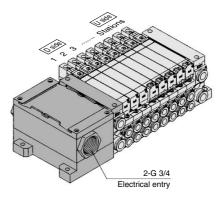
VQ5

VQZ

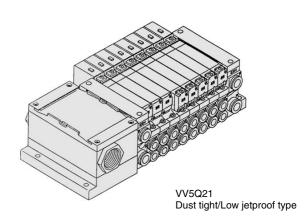
VQD

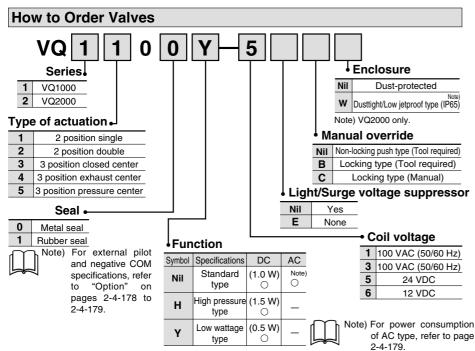
• Special wiring specifications: VQ2000





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





How to Order Manifold Assembly

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

<Example>

Terminal block box kit

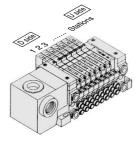
VV5Q11-08C6T0 ··· 1 set–Manifold base no. *VQ1100-5 ········· 2 sets–Valve part no. (Stations 1 to 2) *VQ1200-5 ······· 4 sets–Valve part no. (Stations 3 to 6)

*VQ1300-5 1 set–Valve part no. (Station 7)

*VVQ1000-10A-1 ... 1 set–Blanking plate part no. (Station 8)

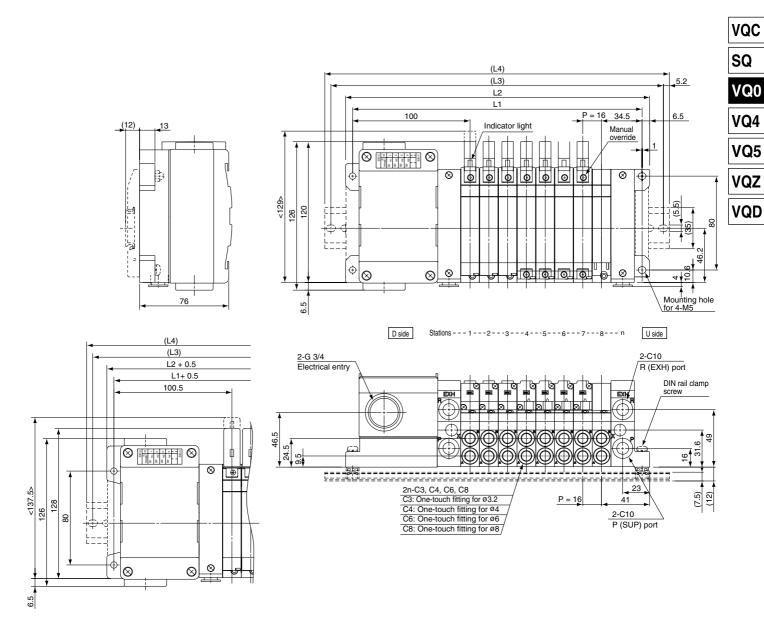
Prefix the asterisk to the part nos. of the solenoid valve,

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



VQ2000

The broken lines and dimensions in parentheses indicate DIN rail mounting style [-D].



<>: AC

	•							
		~	^	-	^	^	-	•
D					-	u		-

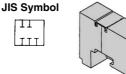
Formula L1 = 16n + 118.5, L2 = 16n + 131							n: Stat	ion (iviaxi	mum 10	stations)									
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	150.5	166.5	182.5	198.5	214.5	230.5	246.5	262.5	278.5	294.5	310.5	326.5	342.5	358.5	374.5	390.5	406.5	422.5	438.5
L2	163	179	195	211	227	243	259	275	291	307	323	339	355	371	387	403	419	435	451
(L3)	187.5	200	225	237.5	250	262.5	287.5	300	312.5	337.5	350	362.5	375	400	412.5	425	450	462.5	475
(1.4)	100	010 5	005.5	0.40	000 5	070	000	010 5	000	0.40	000 5	070	005.5	440.5	400	405.5	400 5	470	405.5

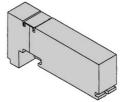
Series VQ2000

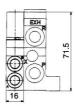
Manifold Option Parts for VQ2000

Blanking plate assembly VVQ2000-10A-1

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.





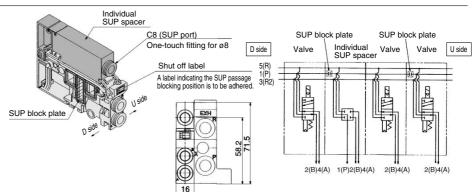


Individual SUP spacer VVQ2000-P-1-C8

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

Block both sides of the station, for which the supply pressure from the individual SUP spacer is used, with SUP block plates. (Refer to the application ex.)

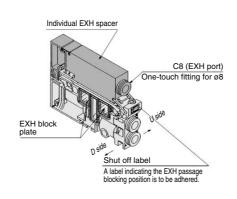
- Specify the spacer mounting position and SUP block plate position on the manifold specification sheet. The block plate are used in two places for one set. (Two SUP block plates for blocking SUP station are attached to the individual SUP spacer.)
- Electric wiring is connected to the position of the manifold station where the individual SUP spacer is mounted

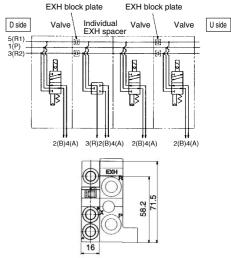


Individual EXH spacer VVQ2000-R-1-C8

When valve exhaust affects other stations due to the circuit configuration, this spacer is used for individual valve exhaust. (One station space is occupied.) Block both sides of the individual valve EXH station (See example)

- Specify the mounting position, as well as the EXH block base or EXH block plate position on the manifold specification sheet. The block plates are used in two places for one set. (Two EXH block plates for blocking EXH station are attached to the individual EXH spacer.)
- Electric wiring is connected to the position of the manifold station where the individual EXH spacer is mounted





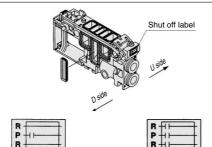
SUP block plate VVQ2000-16A

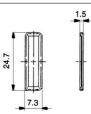
When different pressures, high and low, are supplied to one manifold, a SUP block plate is inserted between the stations under different pressures

* Specify the number of stations on the manifold

<Blocking indication label>

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







SUP/EXH passage blocked

When ordering a block plate incorporated with the manifold no., a block indication label is attached to the manifold.

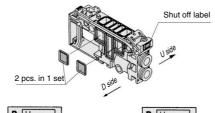
EXH block plate VVQ2000-19A

The EXH block plate is used between stations for which exhaust is desired to be divided when valve exhaust affects other stations due to the circuit configuration. It is also used in combination with an individual EXH spacer for individual exhaust.

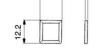
Specify the number of stations on the manifold specification sheet.

<Blocking indication label>

When blocking the EXH passage with an EXH block plate, an indication label for confirmation of the blocking position from outside is attached. (One label for each)

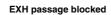








When ordering a block plate incorporated with the manifold no., a block indication label is attached to the manifold.



SUP passage blocked

SUP/EXH passage blocked

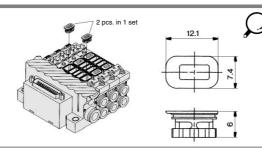


Plug-in Unit Series VQ2000

Back pressure check valve assembly [-B] VVQ2000-18A

It prevents cylinder malfunction caused by other valve exhaust. Insert it into R (EXH) port on the manifold side of a valve which is affected. It is effective when a single action cylinder is used or an exhaust center type solenoid valve is used.

Note) When a check valve for back pressure prevention is desired, and is to be installed only in certain manifold stations, write clearly the part no. and specify the number of stations by using the manifold specification sheet.



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

(Precautions)

- 1. The back pressure check valve assembly is assembly parts with a check valve structure. However, as slight air leakage is allowed for the back pressure, take care the exhaust air will not be throttled at the exhaust port.
- 2. When a back pressure check valve is mounted, the effective area of the valve will decrease, by about 20%.

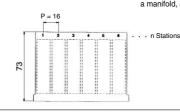
Name plate [-N] VVQ2000-N-Station (1 to Max. stations)

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.

• Suffix "N" to the manifold part no.





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

SQ VQ0

VQC

VQ4

VQ5

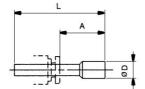
VQZ

VQD

Blanking plug (For One-touch fittings)

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





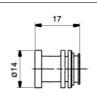
Dimensions

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

Port plug VVQ1000-58A

The plug is used to block the cylinder port when using a 4 port valve as a 3 port valve.

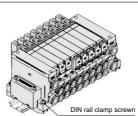


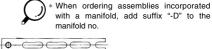


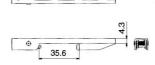
When ordering a plug incorporated with a manifold, indicate "CM" for the port size in the manifold no., as well as, the mounting position and number of stations and cylinder port mounting positions, A and B, in the manifold specification sheet.

DIN rail mounting bracket VVQ2000-57A

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).







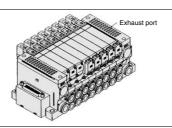
Built-in silencer, Direct exhaust [-S]

This is a type with an exhaust port atop the manifold end plate. The built-in silencer exhibits an excellent noise suppression effect. (Silencing effect: 30 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 2-4-176.

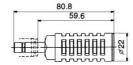




When ordering assemblies incorporated with a manifold, add suffix "-S" to the manifold no.

Silencer (For EXH port)

This silencer is to be inserted into the EXH port (One-touch fittings) of the common exhaust type.



Dimensions

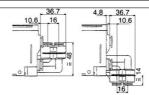
Series	Applicable fittings size ød	Model	Α	L	D	Effective area (mm²) (Cv factor)	Noise reduction (dB)
VQ2000	10	AN200-KM10	59.6	80.8	22	26 (1.4)	30

Elbow fitting assembly VVQ2000-F-L (C4, C6, C8)

It is used for piping that extends upward or downward from the

When installing it in part of the manifold stations, specify the assembly no. and the mounting position and number of stations by using the manifold specification sheet.





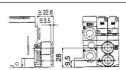
2 stations matching fitting assembly VVQ2000-52A-C10

For driving a cylinder with a large bore, valves for two stations are operated to double the flow rate. This assembly for the cylinder port is used in that case

This assembly for the cylinder port is used in that case.



The bore for the manifold no. is "CM". Clearly indicate the 2 station matching fitting assembly no., and specify the number of stations and positions in the manifold specification sheet.





Series VQ2000

Manifold Option

Double check block (Separated type)

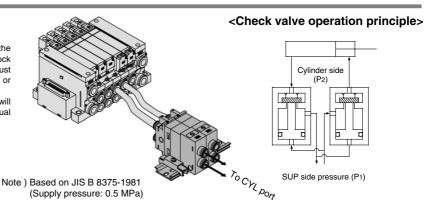
VQ2000-FPG-□□-□

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.

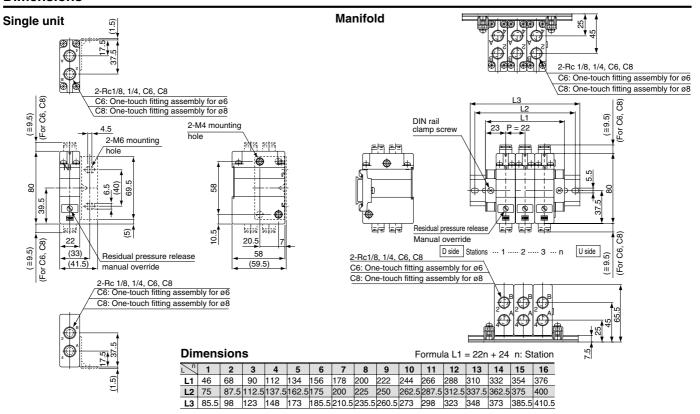
The combination with a 2 position single/double solenoid valve will prevent the dropping at the cylinder stroke end when the SUP residual pressure is released.

Specifications

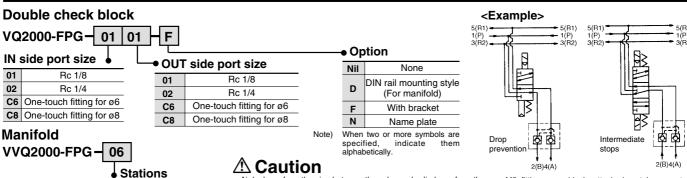
Max. operating pressure	0.8 MPa
Min. operating pressure	0.15 MPa
Ambient and fluid temp.	−5 to 50°C
Flow characteristics: C	-3.0 dm³/(s·bar)
Max. operating frequency	180 c.p.m



Dimensions



How to Order



1 station 16 16 stations <Ordering Example>

VVQ2000-FPG-06....6 stations manifold

*VQ2000-FPG-C6C6-D: 3 sets *VQ2000-FPG-C8C8-D: 3 sets Double check block

Bracket Assembly

Part no. Tightening torque VQ2000-FPG-FB 0.8 to 1.0 N·m

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 work.

 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 N·m]

Connection threads	Proper tightening torque (N·m)
Rc 1/8	7 to 9
Rc 1/4	12 to 14

- 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.



VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

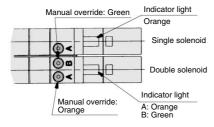
⚠ Precautions 1

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

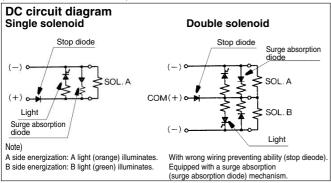
Light/Surge Voltage Suppressor

⚠ Caution

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



(DWG shows a VQ1000 case.)



Manual Override

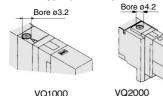
⚠ Warning

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

Push type is standard. (Tool required)

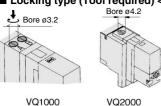
Option: Locking type (Tool required/Manual)

■ Push type (Tool required)



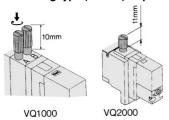
Push down on the manual override button with a small screwdriver until it stops. Release the screwdriver and the manual override will return.

■ Locking type (Tool required) <Option>



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.

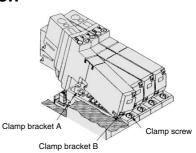
■ Locking type (Manual) <Option>



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.

How to Mount/Remove Solenoid Valve

⚠ Caution



Removing

- 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.

Mounting

- 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.)
- 3. Tighten the clamp screw. (Proper tightening torque: VQ1000, 0.25 to 0.35 N·m; VQ2000, 0.5 to 0.7 N·m.)

⚠ Caution

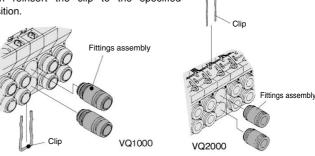
Dust on the sealing surface of the gasket or solenoid valve can cause air leakage.

Replacement of Cylinder Port Fittings

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 wall and then reinsert the clip to the specified position.



Applicable tubing O.D.	Fitting assembly part no.					
Applicable 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				
M5	VVQ1000-50A-M5	_				

* Refer to "Option" on pages 2-4-172 to 2-4-173 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.

Do not apply excessive torque when turning the locking type manual override

⚠ Precautions 2

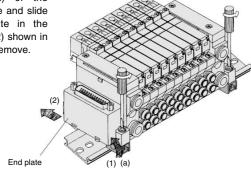
Be sure to read before handling. For Safety Instructions and Solenoid Valve Precautions, refer to page 2-9-2.

Mounting/Removing from the DIN Rail

⚠ 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.

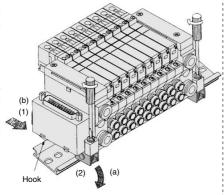


Mounting

- Hook side (b) of the manifold base on the DIN rail.
- 2. Press down 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 0.4 to 0.6 N·m.



Enclosure IP65

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

Built-in Silencer Replacement Element

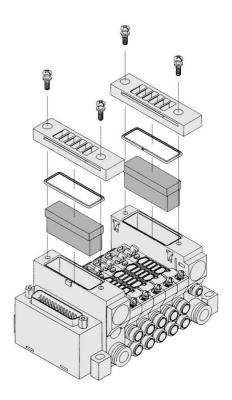
A silencer element is incorporated in the end plate on both sides of the A dirty and choked element may reduce cylinder speed or cause malfunction. Clean or replace the dirty element.

Element Part No.

Type	Element part no.				
Туре	VQ1000	VQ2000			
Built-in silencer, direct exhaust	VVQ1000-82A-1	VVQ2000-82A-1			

* The minimum order quantity is 10 pcs.

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



How to Calculate the Flow Rate

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

Series VQ1000/2000

Option

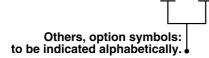
Special Wiring Specifications

In the internal wiring of F kit, P kit, J kit, G 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

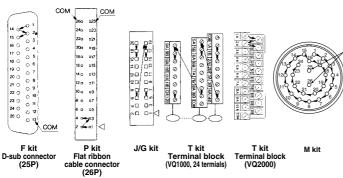
Indicate an option symbol "-K", for the manifold no. and be sure to specify the mounting position and number of stations of the single and double wiring by means of the manifold specification sheet.

Example) VV5Q11-08C6FU1-D K S



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.

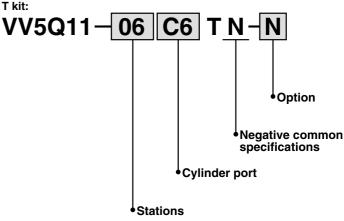
Kit	F kit (D-sub connector) P kit (Flat ribbon cable connector)			r)		J kit (Flat ribbon cable connector)	G kit (Flat ribbon cable with terminal block)			
Туре	F _S □ 25P	F _S A 15P	P _S □ 26P	PSC 20P	P S B 16P	P _S ^U A 10P		J ^U □ 20P	G	
Max. points	24	14	24	18	14	8		16	16	
Kit	T kit (Terminal block)						S kit (Serial transmission)		M kit (Circular connector)	
Туре	2 rows terminal to			of 3 rows of ocks terminal blocks			S□		M□	
Max.	l	- 10 24				16		24		

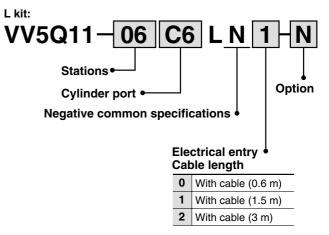
Negative Common Specifications

Specify the valve model no. as shown below for negative COM specification. The manifold no. shown below is for the T and L kits. For other kits the standard manifold can be used. For negative COM S or G kit, please contact SMC.



How to order negative COM manifold





External Pilot Specifications

When the supply air pressure is lower than the required minimum operating pressure (0.1 to 0.2 MPa) for the solenoid valve (or when the valve is used for vacuum), specify an external pilot model. Order a manifold or valve by suffixing the external pilot specification, "R".

The X-port of the manifold base is equipped with One-touch fittings for external pilot.

VQ1000: C4 (One-touch fitting for Ø4) VQ2000: C6 (One-touch fitting for Ø6)

How to order manifold

VV5Q11-08C6FU1-R S

Others, option symbols: to be indicated alphabetically.

How to order valves

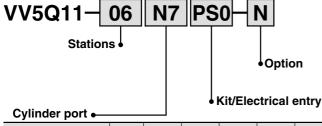


Note 1) When low wattage type is also desired, specify as "RY". Note 2) In this valve pilot exhaust is connected to the EA passage of the

Note 2) In this valve pilot exhaust is connected to the EA passage of the manifold. Therefore, it is not possible to supply air from EXH port, nor vacuum from ports other than SUP port.

Inch-size One-touch Fittings

The valve with inch-size One-touch fittings is shown below.



Syr	mbol	N1	N3	N7	N9	M5T	NM
Applicable tub	ing O.D. (Inch)	ø1/8"	ø5/32"	ø1/4"	ø5/16"	10-32UNF (M5 thread)	Mixed
4(A), 2(B) port	VQ1000	•	•	•	_	•	•
	VQ2000	_	•	•	•		•

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

1(P), 3(R) port size VQ1000 ø5/16" (N9) VQ2000 ø3/8" (N11) VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

Series VQ1000/2000

Option

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.

● When DIN rail is unnecessary

(DIN rail mounting brackets only are attached.)

Indicate the option symbol, -DO, for the manifold no.

Example)

VV5Q11-08C6FU1-D0S

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)

VV5Q11-08C6FU1-D09S

DIN rail for 9 stations

Others, option symbols: to be indicated alphabetically.

When changing the manifold style into a DIN rail mounting style.

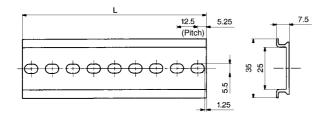
Order brackets for mounting a DIN rail. (Refer to "Option" on pages 2-4-168 and 2-4-173.)

No. VVQ1000-57A (For VQ1000) VVQ2000-57A (For VQ2000) 2 pcs. per one set.

When ordering DIN rail only

DIN rail no.: AXT100-DR-□

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



Dimension

L Dimension $L = 12.5 \times n + 10.8 \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