

For details about certified products conforming to international standards, visit us at <u>www.smcworld.com</u>.

Series VQ1000 Base Mounted **Plug Lead Unit**

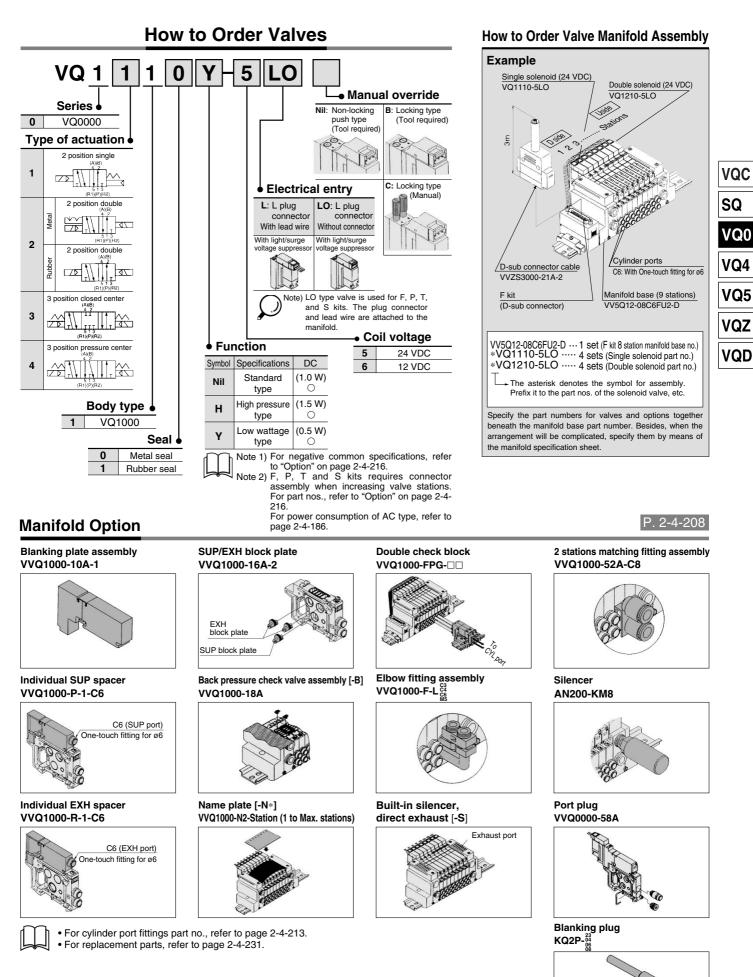
How to Order Manifold VV5Q 12 - 08 C6 F **U1** D Series/Manifold • Option 12 VQ1000 Kit type Cylinder port Symbol Option Nil None Port size Symbo Stations • With One-touch fitting for ø3.2 в With back pressure check valve C3 01 1 station D DIN rail mounting style (3) C4 With One-touch fitting for ø4 κ Special wiring specifications (Not double wiring)⁽⁴⁾ With One-touch fitting for ø6 C6 Ν With name plate M5 thread M5 The number of max. stations s Built-in silencer, direct exhaust СМ With mixed size/with port plug differs from kit to kit When two or more symbols are specified, indicate them alphabetically. Example) -BNS Models with a suffix "-B" have check valves Note 1) L3 With elbow One-touch fitting ø3.2 for top piping (Refer to the table below.) L4 With elbow One-touch fitting ø4 for top piping Note 1) Specify "Mixed size/with port Note 2) L6 With elbow One-touch fitting ø6 for top piping plug" in the manifold specification sheet. for prevention of back pressure at all manifold stations. If not all stations need this check Elbow M5 thread for top piping L5 Note 2) For One-touch fittings in inch valve, specify the stations where check valves With elbow One-touch fitting ø3.2 for bottom piping **B**3 sizes, refer to "Option" on are installed by using manifold specification page 2-4-216. Note 3) M5 fittings for M5 thread are **B4** With elbow One-touch fitting ø4 for bottom piping sheet. Note 3) Manifold is a DIN rail mounting style, and so With elbow One-touch fitting ø6 for bottom piping **B6** attached without being incorporated. suffix -D should be indicated. **B**5 Elbow M5 thread for bottom piping Note 4) Specify the wiring specifications in the manifold specification sheet. (Except C kit) LM Mixed size for elbow piping Kit/Electrical entry/Cable length kit kit (D-sub connector) (Flat ribbon cable connector) Note 2) Note 2) 25P Side entry Top entry Side entry Top entry Connector entry direction Connector entry direction P. 2-4-188 P. 2-4-192 Top entry Side entry Top entry Side entry Without cable Without cable U0 S0 U0 S0 Kit Kit Kit Kit U1 S1 With cable (1.5 m) U1 **S1** With cable (1.5 m) Max. 16 Max. 16 U2 S2 With cable (3 m) stations U2 S2 With cable (3 m) stations Ρ Ρ F F U3 **S**3 With cable (5 m) U3 **S**3 With cable (5 m) kit kit kit (Terminal block) (Connector) (Serial transmission unit) The valve is equipped with an indicator light and surge voltage suppressor, and the voltage is 24 VDC. The dust-protected type SI unit is available, too. For details, please contact SMC. P. 2-4-204 0 Without SI unit A With general type SI unit (Series EX300) B Mitsubishi Electric Corp.: MELSECNET/MINI-S3 Data Link System C OMRON COrp.: SYSBUS Wire System D SHARP Corp.: Statellite I/O Link System F1 NKE Corp.: Uni-wire System (16 output points) G Rockwell Automation: Allen Bradley Remote I/O (RIO) System H NKE Corp.: Uni-wire H System (16 output points) J2 SUNX Corp.: S-LINK System (8 output points) J2 SUNX Corp.: CompoBus/D (OMRON Corp.) R1 Max.16 K Fuji Electric Co: T-LINK Mini System Q DeviceNet, CompoBus/D (OMRON Corp.) R1 OMRON Corp.: CompoBus/S System (16 output points) R2 OMRON Corp.: CompoBus/S System (16 output points) R2 OMRON Corp.: CompoBus/S System (8 output points) Max.8 stations Max.8 stations P Mitsubishi Electric Corp.: CC-LINK System Without SI unit S P. 2-4-196 Number of terminals: 8, 1 row Applicable stations 1 to 8 stations 1 P. 2-4-200 kit Number of terminals: Applicable stations 5 to 16 stations 2 Max. 16 stations С Connector kit 16, 2 rows Note 1) Besides the above, F and P kits with different number of pins are available. Refer to page 2-4-215 for details. Simple specials are available with SMC Simple Specials System. For details about applicable models, please contact

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

2-4-184

SMC

SMC

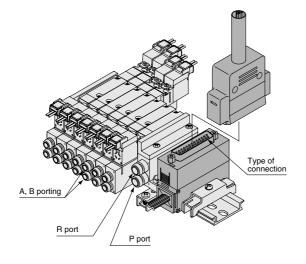


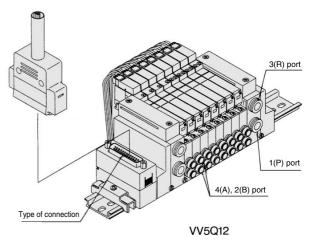
SMC

2-4-185

Manifold Specifications

Series	Base model	Type of connection	Port		t size ⁽¹⁾	(2) Applicable stations	Applicable solenoid valve	5 station weight	
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	1(P), 3(R) C6 (Ø6) Option (Built-in silencer, direct exhaust	4(A), 2(B) C3 (Ø3.2) C4 (Ø4) M5 (M5 thread)	1 to 16 stations	VQ0⊡50 VQ0⊡51	(g) 330 (Single) 400 (Double, 3 position)	VQC
									VQC
		 F kit–D-sub connector P kit–Flat ribbon cable connector 		C8 (ø8) Option	C3 (ø3.2)	1 to 16		818 (Single) 885 (Double, 3 position)	SQ
VQ1000	VV5Q12-□□□	 T kit–Terminal block C kit–Individual connector 	Side		C4 (ø4)C6 (ø6) M5 (M5 thread)	stations	VQ1⊡10 VQ1⊡11		VQ0
		S kit-Serial transmission		\ /				VQ4	
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.									VQ5





VQZ

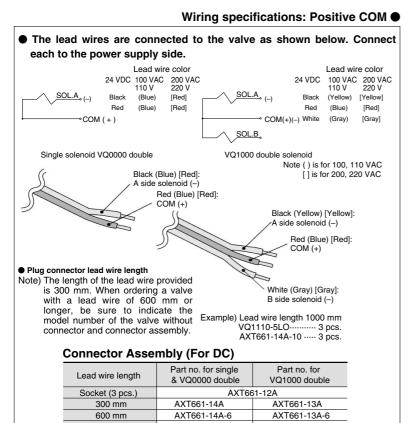
VQD



- Standard with lead wires plug-connected to each valve individually.
- Maximum stations are 16.

Manifold Specifications

Series	Port	F	Applicable stations	
	location	ocation 1(P), 3(R) 4(A), 2(B)		
VQ0000	Side	C6	C3, C4, M5	Max. 16
VQ1000	Side	C8	C3, C4, C6, M5	Max.16 stations



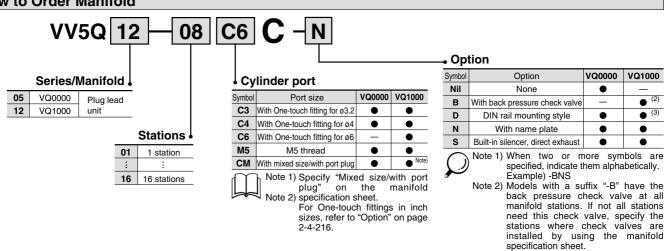
 1000 mm
 AXT661-14A-10
 AXT661-13A-10

 2000 mm
 AXT661-14A-20
 AXT661-13A-20

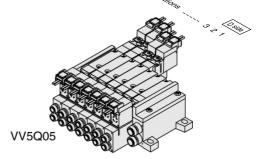
 3000 mm
 AXT661-14A-30
 AXT661-13A-30

 Note) 100/110 VAC for single: AXT661-34A-C]; for double: AXT661-32A-C
 200/220 VAC for single: AXT661-34A-C]; for double: AXT661-35A-C

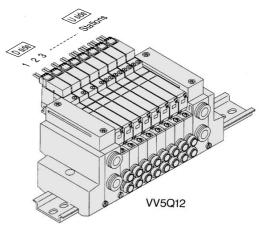
How to Order Manifold



VV5Q05

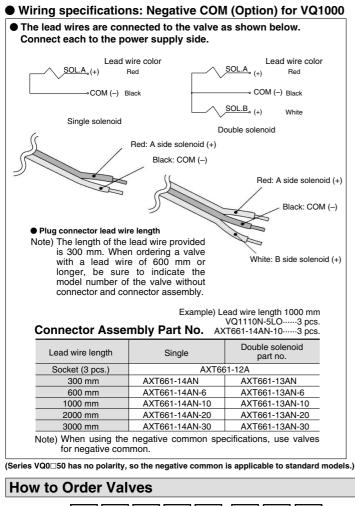


VV5Q12









	Note) When using the negative of for negative common.	common sp		ns, use v						
(Seri	es VQ0⊡50 has no polarity, so the nega	tive common	is applic	able to sta	ndard	models	s.)			
Н	ow to Order Valves									
	VQ 1 1 1 () Y	5	L						
_	Series			L	Man	ual o	verr	ide		
0					Nil N				e (Tool r ool requii	equired)
Tvp	be of actuation			_	c				anual) No	
1	2 position single				'	ailable	only f	or VQ	1000.	
2	2 position double		Electrical entry						VQ0000	VQ1000
3	3 position closed center		G Grommet (Except AC)					•	—	
4	3 position exhaust center		L	L plug connector with lead wire				•	•	
5	3 position pressure center (VQ1000 only)		LO	L plug con					•	•
			M	M plug co					•	
	Body type 📖		MO	M plug ter	minal v	vithout	conneo	ctor	•	_
5 1	VQ0000Plug leadVQ1000unit						. Co	il vo	oltage	VQ00
	Seal		unctio	n			1 1	00 VA	C (50/60	Hz) 🔴
	0 Metal seal	Syml			DC	AC	2 2	200 VA	C (50/60	Hz) •
	1 Rubber seal		Cto		.0 W)	Note)	3 1	10 VA	C (50/60	Hz) •
ſ	Note 1) For negative commo				0	O	4 2	20 VA	C (50/60	Hz) •
Ц	specifications, refer t "Option" on page 2-4		H	·	.5 W)		5	2	4 VDC	•
F •	216.	н- н		•	0	_	6	1:	2 VDC	•
			Low	1011000	5 W/					

How to Order Manifold Assembly

VQ0000 VQ1000

•

.

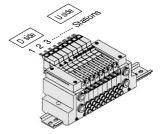
Please indicate manifold base type. corresponding valve, and option parts.

<Example> Connector kit

VV5Q12-08C6C-D1 set-Manifold base no. *VQ1110-5 ·······3 sets-Valve part no. (Stations 1 to 3) *VQ1210-54 sets-Valve part no. (Stations 4 to 7) *VVQ1000-10A-1...1 set-Blanking plate part no. (stations 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.





VQC

SQ

VQ0

VQ4

VQ5

VQZ

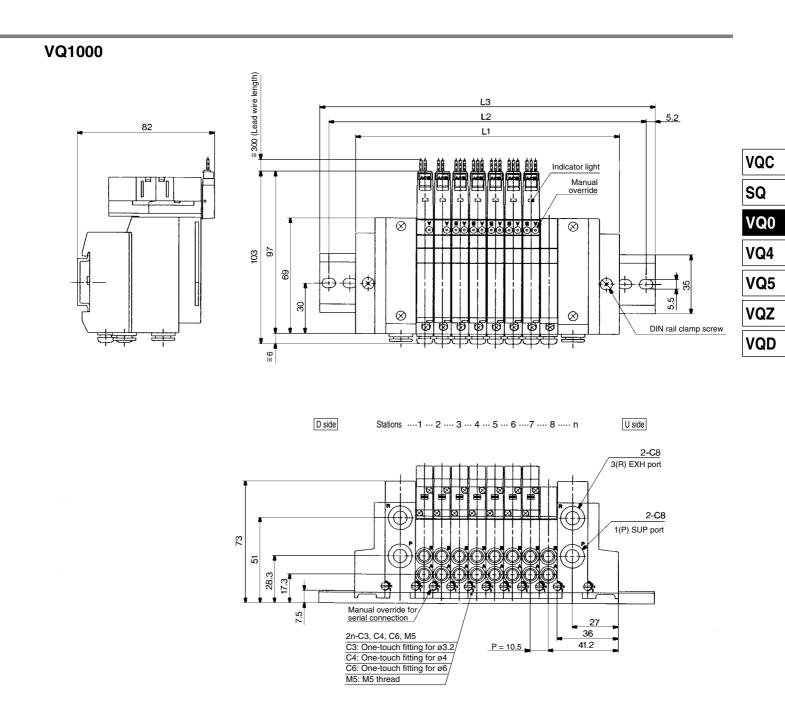
VQD

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

Low wattage (0.5 W)

type

Y



DimensionsFormula L1 = 10.5n + 72n: Station (Maximum 16 station)												tations)				
L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	82.5	93	103.5	114	124.5	135	145.5	156	166.5	177	187.5	198	208.5	219	229.5	240
L2	112.5	112.5	125	137.5	150	162.5	175	187.5	187.5	200	212.5	225	237.5	250	250	262.5
L3	123	123	135.5	148	160.5	173	185.5	198	198	210.5	223	235.5	248	260.5	260.5	273

Base Mounted

Series VQ1000

Manifold Option Parts for VQ1000

Blanking plate assembly VVQ1000-10A-1

JIS Symbol

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 VVQ1000-P-2-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.)

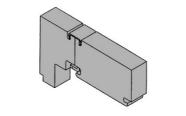
Block both sides of the station, for which the supply pressure from the individual SUP spacer is used, with SUP block plates. (Refer to the application ex.)

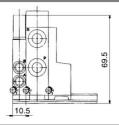
 Specify the spacer mounting position and SUP block plate position on the manifold specification sheet. The block plates are used in two places for one set. (Two SUP block plates forblocking SUP station are attached to the individual SUP spacer.)

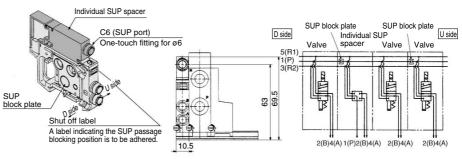
Individual EXH spacer VVQ1000-R-2-C6

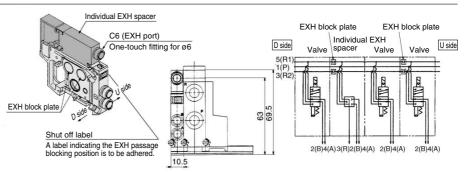
When valve exhaust affects other stations due to the circuit configuration, this spacer is used for individual valve exhaust. (One station space is occupied.) Block both sides of the individual valve EXH station.

- (See example.)
- * Specify the mounting position, as well as EXH block base or EXH block plate position on the manifold specification sheet. The block plates are used in two places for one set.









Shut off label

10.5

SUP/EXH block plate VVQ1000-16A-2

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

When a valve exhaust affects other stations due to the circuit configuration, this plate is also used between the stations where exhaust should be separated. It is also used for individual exhaust by combining an EXH block plate with an individual EXH spacer.

(2 EXH plates are necessary for 1 station.)

Note) The SUP/EXH block plate is common. * Specify the number of stations on the manifold

specification sheet.

<Blocking indication label>

When using block plates for SUP/EXH passage, the 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.

Back pressure check valve assembly [-B] VVQ1000-18A

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 acting cylinder is used or an exhaust center type solenoid valve is used.

Note) When a check valve for back pressure prevention is desired to be installed only in certain manifold stations, write clearly the part no. and specify the station numbers by using the manifold specification sheet. 2 pcs. in 1 set

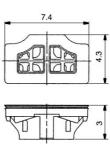
SUP passage blocked

EXH block plate

SUP block plate

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

SUP/EXH passage blocked



EXH passage blocked

<Precautions>

1. Back pressure check valve assembly is assembled with a check valve structure. However, as slight air leakage is allowed for the back pressure, take note the exhaust air will not be throttled at the exhaust port.

88

2. When a back pressure check valve is mounted, the effective orifice of the valve will decrease by about 20%.



Base Mounted Plug-in Unit Series VQ1000

VQC

SQ

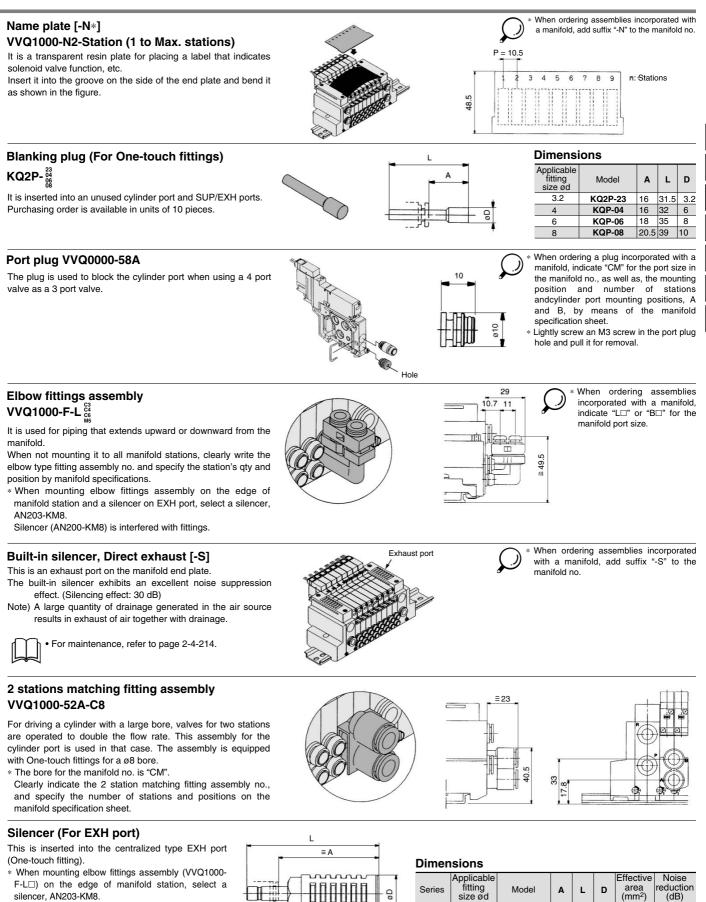
VQ0

VQ4

VQ5

VQZ

VQD



Silencer (AN200-KM8) is interfered with fittings.

SMC

30

25

20

14

AN200-KM8

AN203-KM8

VQ1000

8

59 78 22

32 51 16

Series VQ0000/1000

Manifold Option Parts for VQ0000/VQ1000

Double check block (Separated type)

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 2 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

0.8 MPa
0.15 MPa
–5 to 50°C
0.60 dm³/(s·bar)
180 CPM

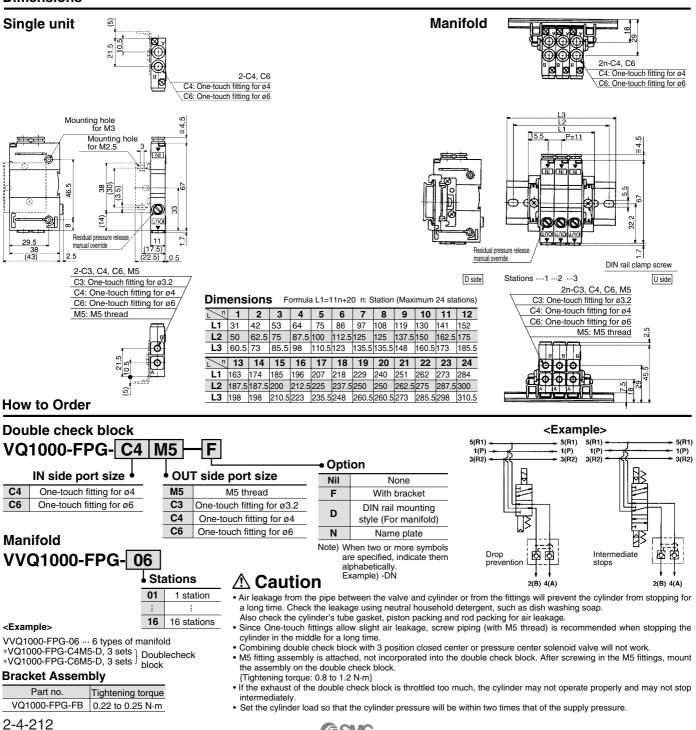
70^{CY1} VVQ1000-FPG-02 1 set *VQ1000-FPG-C6M5-D 2 pcs. Note) Based on JIS B 8375-1981 (Supply pressure: 0.5 MPa)



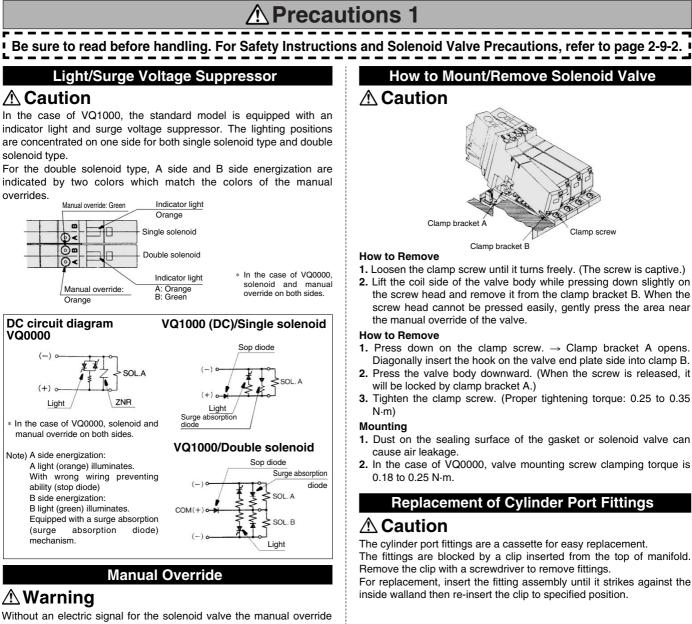
Cylinder pressure (P₂)

SUP side pressure (P1)

Dimensions







is used for switching the main valve.

Push type is standard. (Tool required) Option: Locking type (Tool required/Manual)

Push type (Tool required)

Bore ø3.2 VQ0000

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

VQ1000 ■ Locking type (Tool required) <Option>

If the manual override is turned by 180° Push down completely on the manualoverride button clockwise and the \blacktriangleright mark is adjusted to 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

Locking type (Manual) <Option>



A Caution



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

with a small screwdriver. While down, turn clockwise 90° to lock it. Turn it counterclockwise to release it. Bore ø3.2 VQ0000

VQ1000

- leakage may result. 2. After screwing in the fittings, mount the M5 fitting assembly on the manifold
- base. (Tightening torgue 0.8 to 1.2 N·m)
- 3. Purchasing order is available in units of 10 pieces.
- **SMC**

2-4-213

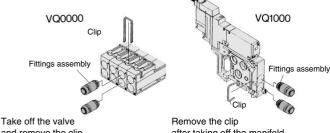
SQ VQ0 VQ4 VQ5 VQZ VQD

VQC

- 1. Press down on the clamp screw. \rightarrow 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
- 3. Tighten the clamp screw. (Proper tightening torque: 0.25 to 0.35
- 1. Dust on the sealing surface of the gasket or solenoid valve can

The fittings are blocked by a clip inserted from the top of manifold.

For replacement, insert the fitting assembly until it strikes against the



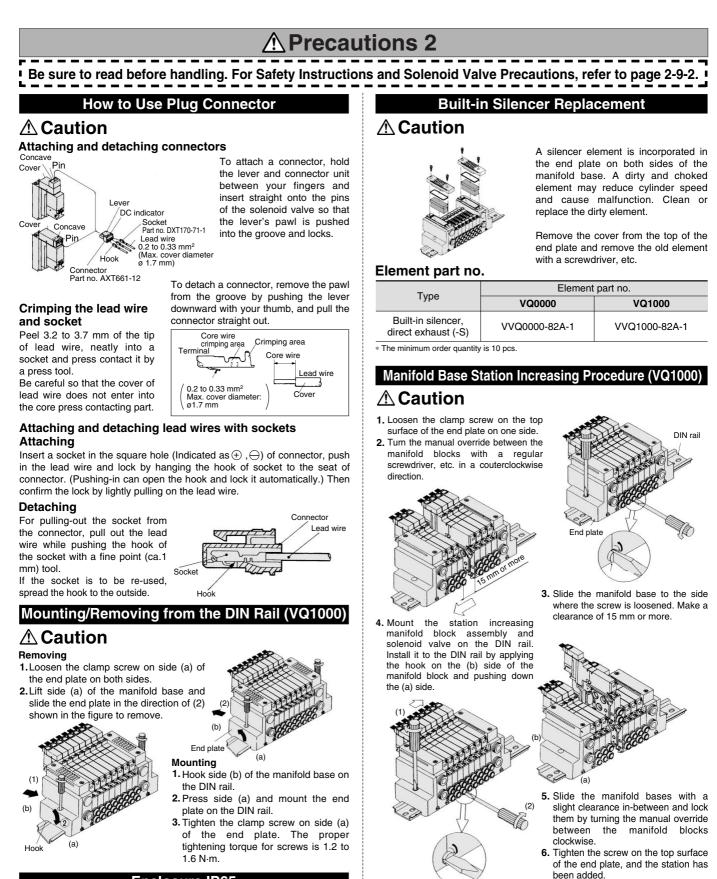
and remove the clip

after taking off the manifold.

	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					
Applicable tubing ø4 Applicable tubing ø6	VVQ1000-51A-C4 — —	VVQ1000-50A-					

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

A Caution Push down on the manual override button with a small 1. Use caution that O-rings must be free from scratches and dust. Otherwise, air screwdriver or with your fingers until it stops. Turn clockwise by 90° to lock it. Turn it counterclockwise to release it.



Enclosure IP65

A 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

A Caution

For obtaining the flow rate, refer to pages 2-1-8 to 2-1-11. 2-4-214

SIVIC

(Proper tightening torque 1.2 to 1.6

N·m)

Port size

With One-touch fitting for ø3.2

With One-touch fitting for ø4

With One-touch fitting for ø6

M5 thread

Manifold Block Assembly

VQ1000

VVQ1000-1A-2-C3

VVQ1000-1A-2-C4

VVQ1000-1A-2-C6

VVQ1000-1A-2-M5

Option

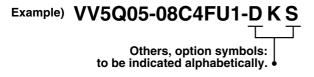
Special Wiring Specifications

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.

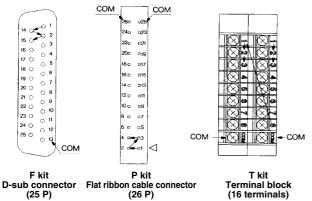
1. How to Order

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.



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		D-sub ector)		P kit (Flat ribbon cable connector)					S kit (Serial transmission)
Туре	F s □ 25P	F [⊍] s A 15P	P s □ 26P	P ^u S 20P	P ^u 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.

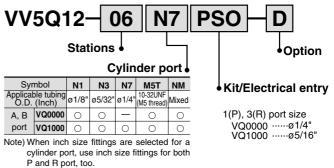
How to order negative COM values VQ1110 \underbrace{N}_{-} = 5M

Negative common specifications

 \ast Series VQ0 \Box 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.



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	Part no.	
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- $\frac{13}{14}$ 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)



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:

to be indicated alphabetically.

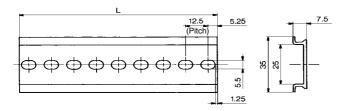
 When changing the manifold style into a DIN rail mounting style (VQ0000 only)
 Order brackets for mounting a DIN rail (Refer to "Option" on page 2-4-

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.

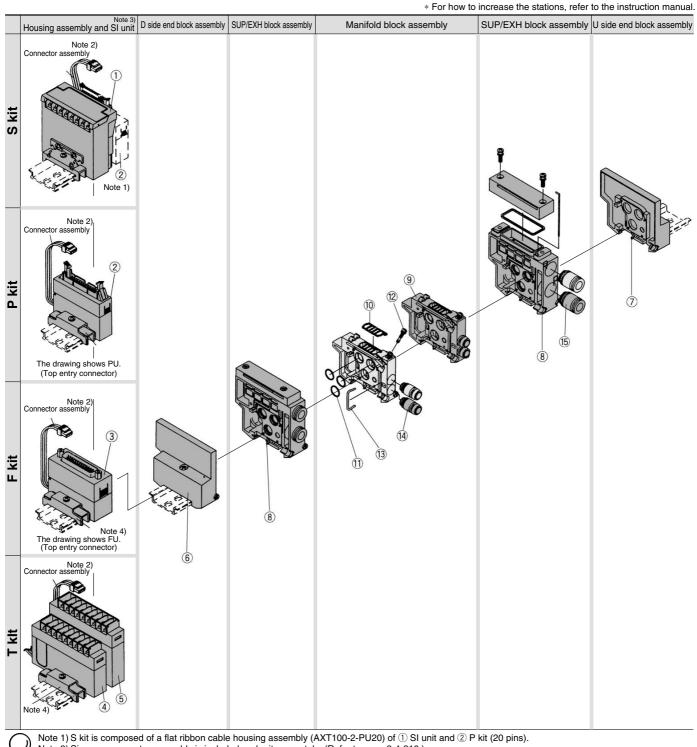


L Din	L Dimension L = 12.5 x n + 10.5										
No.	1	2	3	4	5	6	7	8	9	10	
L dimension	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5	
No.	11	12	13	14	15	16	17	18	19	20	
L dimension	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	
No.	21	22	23	24	25	26	27	28	29	30	
L dimension	273	285.5	298	310.5	323	335.5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

VQC
SQ
VQ0
VQ4
VQ5
VQZ
VQD

Exploded View: VQ1000/Plug Lead Unit

(F, P, T, S kit)



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

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

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

	-	embly and SI Unit>		-					
Hous	ing assemb	ly and SI unit no.							
No.	Manifold	Part no.	Description						
	(SA kit)	EX321-S001(-XP) (5)	General type SI unit (Series EX300)						
	(SB kit)	EX121-SMB1(-XP) (5)	SI unit for MELSECNET/MINI-S3 Data Link System (Mitsubishi Electric Corporation)						
	(SC kit)	EX121-STA1(-XP) (5)	SI unit for SYSBUS Wire System (OMRON Corporation)						
	(SD kit)	EX121-SSH1(-XP) (5)	SI unit for Satellite I/O Link System (SHARP Corporation)						
	(SE kit)	EX121-SPA1	SI unit for MEWNET-F System (Matsushita Electric Works, Ltd.)	VOC					
	(SF1kit)	EX121-SUW1(-XP) (5)	SI unit for 16 point Uni-wire System (NKE Corporation)	VQC					
	(SG kit)	EX121-SAB1(-XP) (5)	SI unit for Allen Bradley Remote I/O (RIO) System (Rockwell Automation, Inc.)						
1	(SH kit)	EX120-SUH1(-XP) (5)	SI unit for 16 point Uni-wire H System (NKE Corporation) 16 point S-LINK System (SUNX Corporation)	SQ					
	(SJ1 kit)	EX121-SSL1(-XP) (5)	8 point S-LINK System (SUNX Corporation)						
	(SJ2 kit)	EX121-SSL2(-XP) (5)	T-LINK Mini System (Fuji Electric Co., Ltd.)	VQ0					
	(SK kit)	EX121-SFU1(-XP) (5)	DeviceNet, CompoBus/D (OMRON Corporation)						
	(SQ kit)	EX121-SDN1 EX121-SCS1(-XP) (5)	OMRON Corporation: CompoBus/S System (16 output points)	VQ4					
	(SR1 kit) (SR2 kit)	EX121-SCS2(-XP) (5)	OMRON Corporation: CompoBus/S System (10 output points)	V QT					
	(SNZ KIL) (SV kit)	EX121-SCS2(-XP) (5)	Mitsubishi Electric Corporation: CC-LINK System	VQ5					
2	P ^U skit	AXT100-2-P S [(2)	Flat ribbon cable housing assembly \Box = Number of pins: 26, 20, 16, 10	VQ5					
3	F s kit	AXT100-2-F S C (2)	D-sub connector housing assembly \Box = Number of pins: 25, 25, 15						
4	T kit	AXT100-2-TB1 (4)	Terminal block assembly (8 terminals)	VQZ					
5	T kit	AXT100-2-TB1 ⁽⁴⁾	Terminal block assembly (8 terminals)						
		•	pusing assembly (AXT100-2-PS20) of ① SI unit and ② P kit (20 pins).	VQD					
()		an order for AXT100-2-PU20 separat							
			while side (horizontal) entry connector for FS and PS.						
\square		-	rder it separately. (Refer to page 2-4-216.)						
			ouble wring, (4) is for 1 to 4 stations and (5) is for 5 to 8 stations.						
	,	-XP" for dust-protected type SI unit.							
		······································							
	ido End D	lata Accomplus	(Donlocoment Dorte for Manifold Pleak)						
		late Assembly>	<replacement block="" for="" manifold="" parts=""></replacement>						
(6) D s	side end pla	te assembly no.	Replaceable Parts						
V	VQ1000-3	3A-2	No. Part no. Description Material Number						
			0 VVQ1000-80A-1 Gasket HNBR 12						
<u s<="" th=""><th>ide End P</th><th>late Assembly></th><th>1) VVQ1000-80A-2-2 O-ring HNBR 12</th><th></th></u>	ide End P	late Assembly>	1) VVQ1000-80A-2-2 O-ring HNBR 12						
		ate assembly no.	12 VVQ1000-80A-3 Clamp screw Carbon steel 12						
	=	-	13 VVQ1000-80A-2-4 Clip Stainless steel 12						
V	VQ1000-2	2A-2	Note) A set of parts containing 12 pcs. each is enclosed.						
		ck Assembly>	<fitting assembly=""></fitting>						
(8) SL	IP/EXH bloc	k assembly no.	If Fitting assembly part no. (For cylinder port)						
v		PR-2-C8-□							
v		-n-2-00-4	VVQ1000-50A-口						
		Option 🌢	• Port size						
		Nil Common exhaust typ	e Note) Purchasing order is C3 Applicable tubing ø3.2						
		S Built-in silencer, direct ex	haunt available in units of 10						
			pieces.						
		Note) The ^(b) 's fitting assembl	y is included.						
		y-							
Ma									
		ck Assembly>	Titting coccurbly part as (Far D. D. part)						
(8) Ma	8 Manifold block assembly no. 15 Fitting assembly part no. (For P, R port)								
V	VVQ1000-1A-2-								
•	Applicable tubing ø8								
		Port size	Note) Purchasing order is						
		C3 With One-touch fitting for a	available in units of 10						
		C4 With One-touch fitting for							
		C6 With One-touch fitting for	Ø6						
		M5 M5 thread							