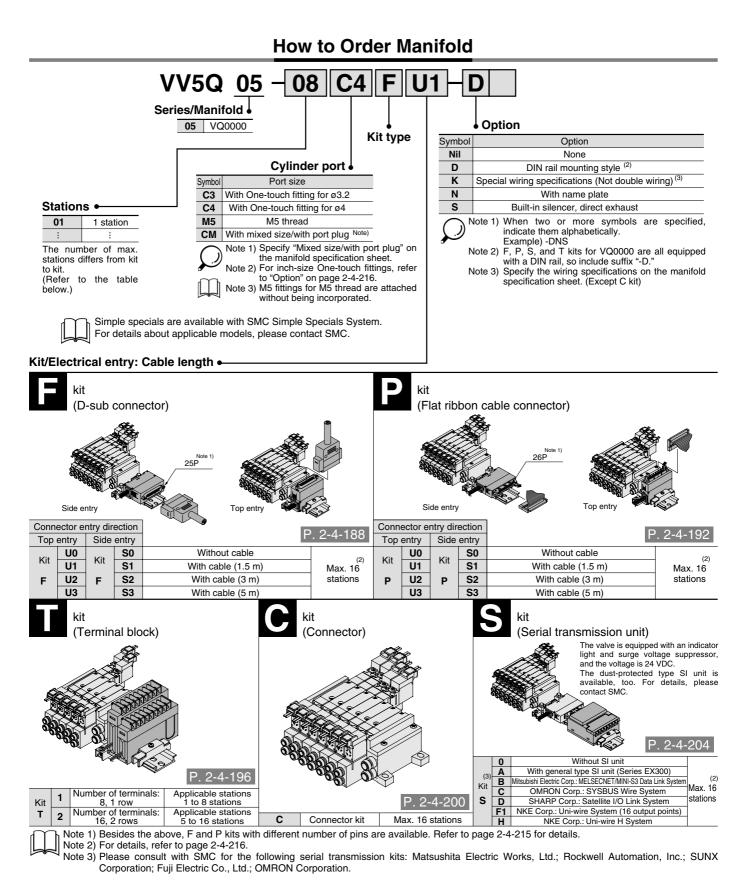
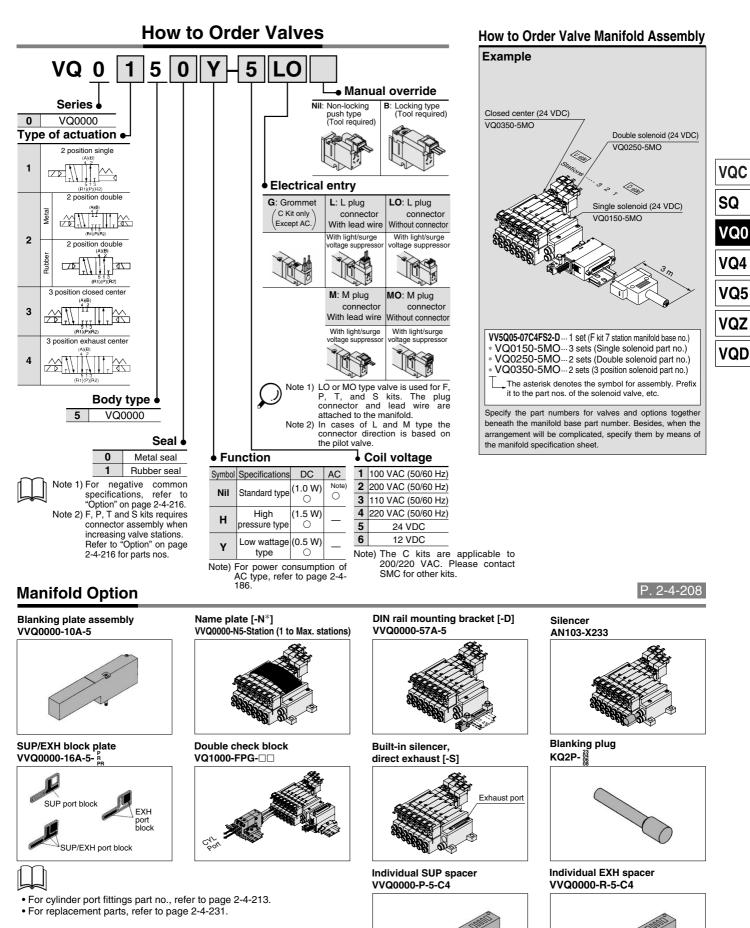


Series VQ0000 **Base Mounted Plug Lead Unit**

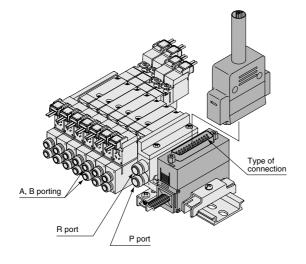


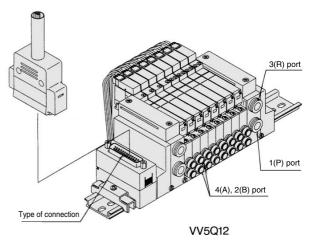




Manifold Specifications

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)	SQ
VQ1000	VV5Q12-□□□	 T kit–Terminal block C kit–Individual connector 	Side	Built-insilencer, direct exhaust	C4 (ø4)C6 (ø6) M5 (M5 thread)	stations	VQ1⊡10 VQ1⊡11	885 (Double, 3 position)	VQ0
		S kit-Serial transmission		\ /					VQ4
		e-touch fittings are also available. For o fer to page 2-4-216.	details, refer to	o page 2-4-216.					VQ5





VQZ

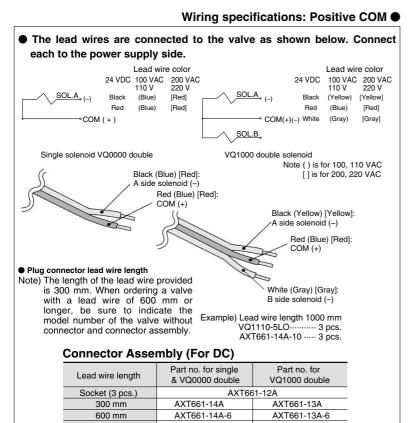
VQD



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

Manifold Specifications

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



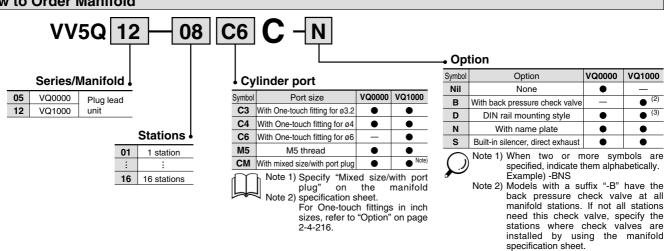
 1000 mm
 AXT661-14A-10
 AXT661-13A-10

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

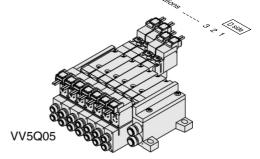
 3000 mm
 AXT661-14A-30
 AXT661-13A-30

 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

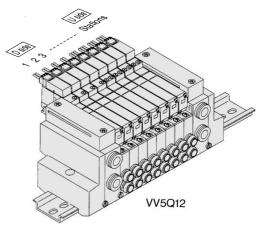
How to Order Manifold



VV5Q05

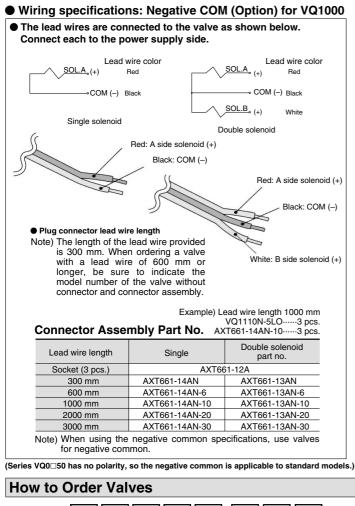


VV5Q12









	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.)			
Но	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		Ele	ctrical	entr	у			VQ0000	VQ1000
3	3 position closed center		G	Gron	nmet (Except	AC)		•	—
4	3 position exhaust center		L	L plug co	nnecto	or with	lead w	ire	•	•
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	220 VAC (50/60 Hz)		Hz) •
Ц	specifications, refer t "Option" on page 2-4		н	·	.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

•

.

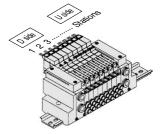
Please indicate manifold base type. corresponding valve, and option parts.

<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)

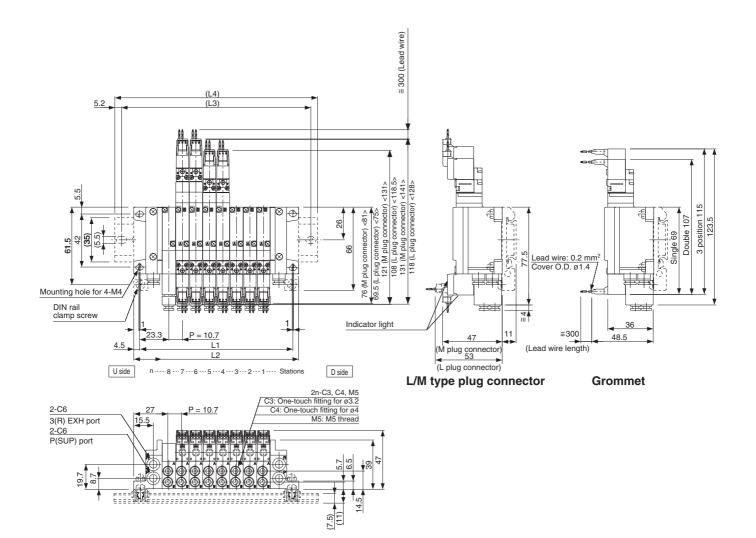
type

Y



VQ0000

The broken lines indicate DIN rail mounting style [-D].



< >: AC

Dime	Tensions Formula L1 = 10.7n + 36, L2 = 10.7n + 45 n: Station (Maximum 16 station)									stations)						
L _ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	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	196.5	207.2
L2	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
(L3)	87.5	87.5	100	112.5	125	137.5	150	162.5	162.5	175	187.5	200	212.5	225	225	237.5
(L4)	98	98	110.5	123	135.5	148	160.5	173	173	185.5	198	210.5	223	235.5	235.5	248

SMC

Base Mounted

Series VQ0000

Manifold Option Parts for VQ0000

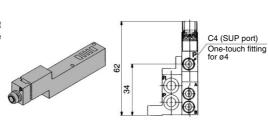
Blanking plate assembly
VVQ0000-10A-5

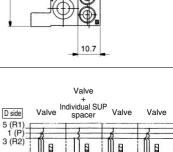
JIS Symbol

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 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.



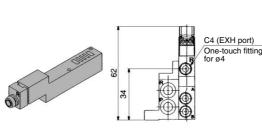


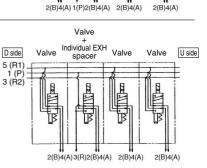
U side

36.5

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- P (SUP) R (EXH) 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>

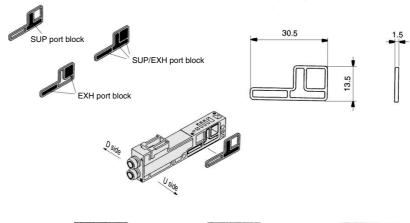
When blocking the SUP, EXH passage with a SUP, EXH block plate, indication label for confirmation of the blocking position from outside is attached. (One label for each)

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

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.

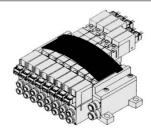




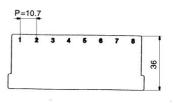
EXH passage blocked (VVQ0000-16A-5-R)



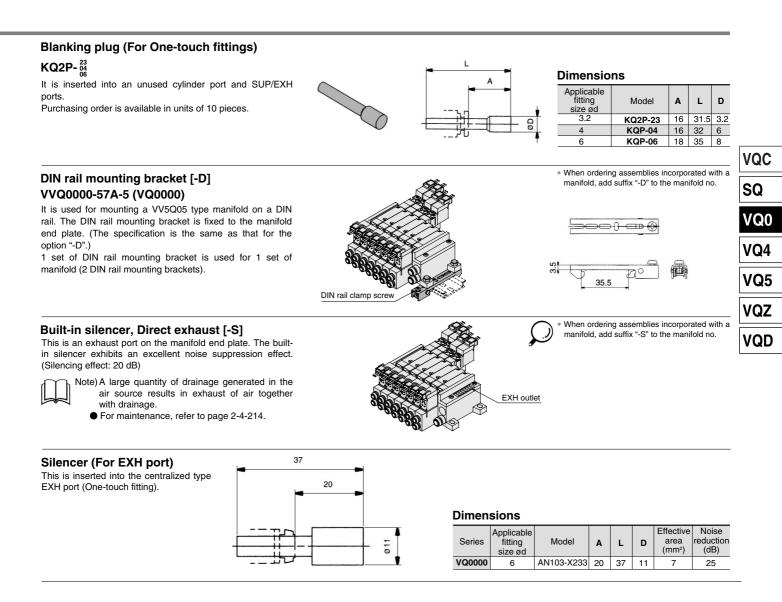
SUP/EXH passage blocked (VVQ0000-16A-5-PR)

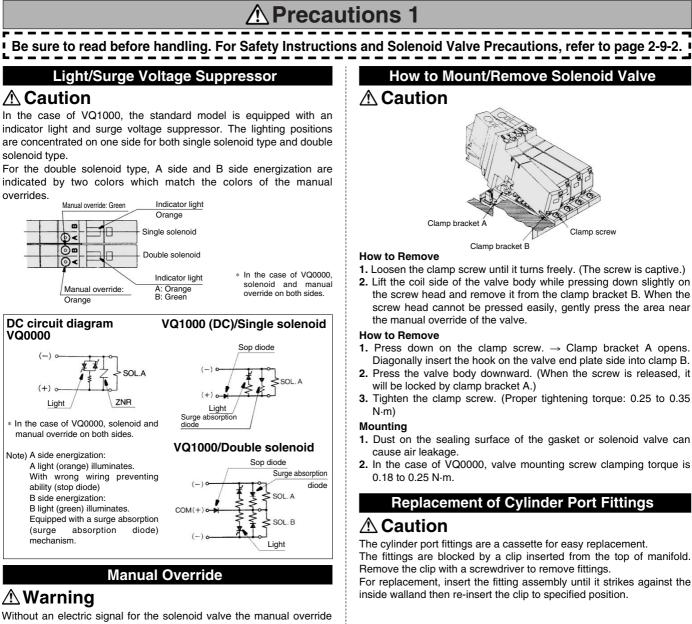


 \ast When ordering assemblies incorporated with a manifold, add suffix "N" to the manifold no.









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

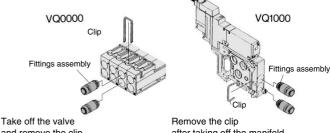
SQ VQ0 VQ4 VQ5 VQZ VQD

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



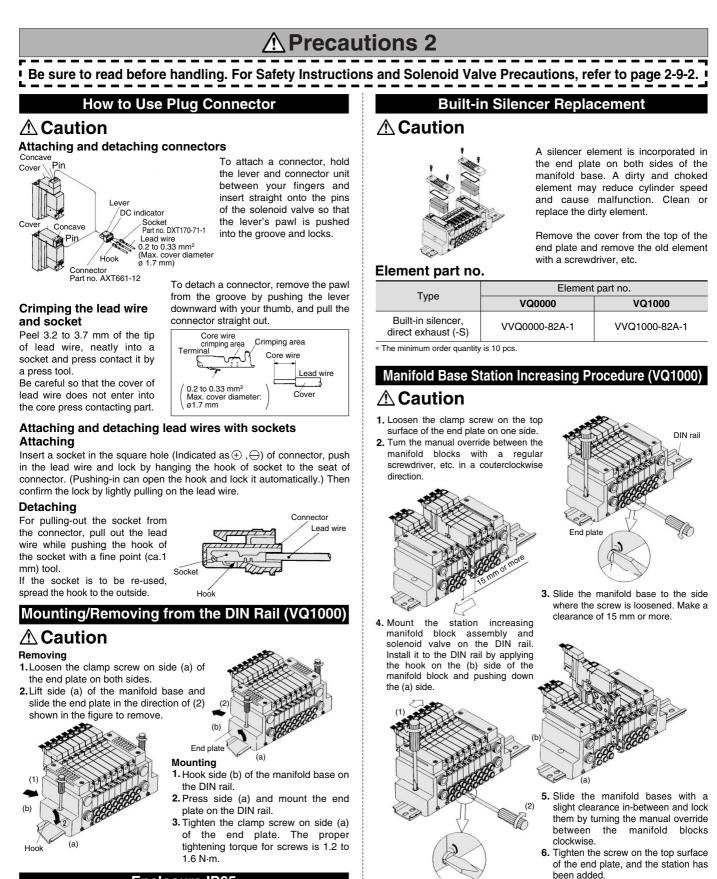
and remove the clip

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

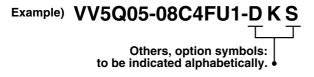
Special Wiring Specifications

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.

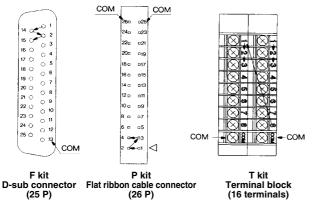
1. How to Order

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)				(Ter	kit minal ock)	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.

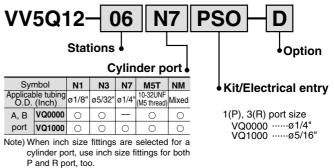
How to order negative COM values VQ1110 \underbrace{N}_{-} = 5M

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.

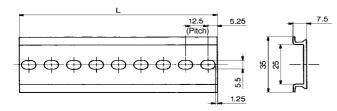
 When changing the manifold style into a DIN rail mounting style (VQ0000 only)
 Order brackets for mounting a DIN rail (Refer to "Option" on page 2-4-

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.

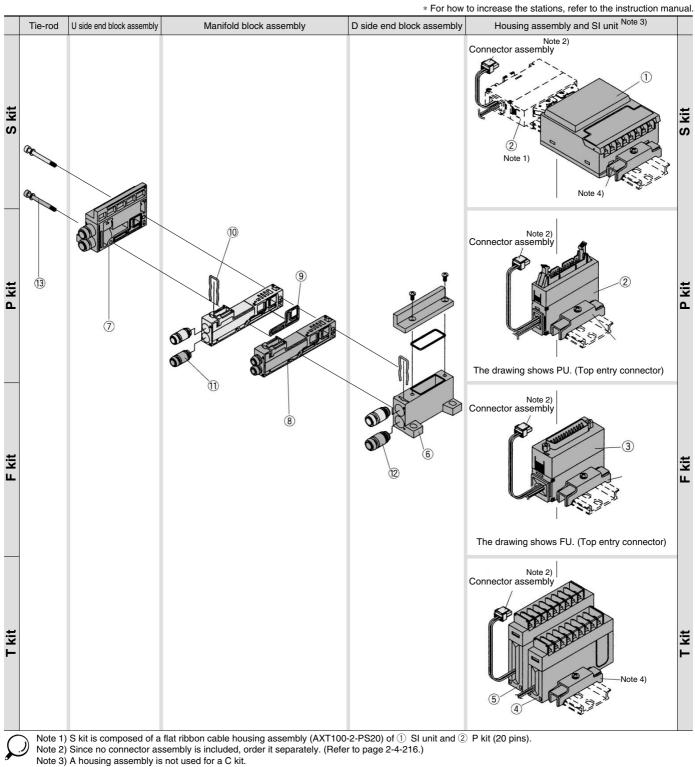


L Din	nens	sion						L = '	12.5 x r	n + 10.5
No.	1	2	3	4	5	6	7	8	9	10
L dimension	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5
No.	11	12	13	14	15	16	17	18	19	20
L dimension	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5
No.	21	22	23	24	25	26	27	28	29	30
L dimension	273	285.5	298	310.5	323	335.5	348	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: VQ0000/Plug Lead Unit

(F, P, C, S 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 ^U _S kit	AXT100-2-P ^U _S □ ⁽²⁾	Flat ribbon cable housing assembly I = Number of pins: 26, 20, 16, 10
3	F ^U skit	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)

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.)

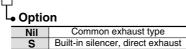
Note 4) In the case of standard specifications and double wring, ④ is for 1 to ⑤ stations and t is for 5 to 8 stations.

<D Side End Plate Assembly>

6 D side end plate assembly no.

<U Side End Plate Assembly> ⑦ U side end plate assembly no. VVQ0000-2A-5-□







) Note) The ⁽¹2's fitting assembly is included.



<Manifold Block Assembly>

 $(\ensuremath{\underline{8}}\xspace)$ manifold block assembly no.

VVQ0000-1A-5-

Port size

C3	With One-touch fitting for ø3.2			
C4	With One-touch fitting for ø4			
M5	M5 thread			

<Replacement Parts for Manifold Block>

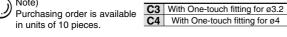
Replaceable Parts

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

<Fitting Assembly>

(1) Fittings assembly part no. (For cylinder port)

VVQ0000-50A-



<Tie-rod Bolt>

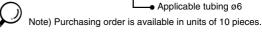
- **13 Tie-rod bolt**
 - VVQ0000-103A-5-



Port size

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

12 Fitting assembly part no. (For P, R port)
VVQ1000-50A-C6____



2-4-231

Note) 2 bolts per one set.

SM