

2-5-26 to 2-5-29.

VQC

SQ

## **Manifold Specifications**

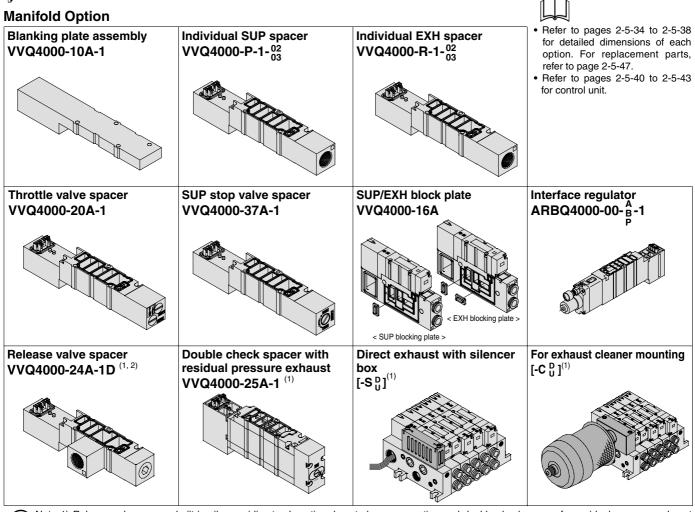
Series				Porting specifica	ations	Maximum	Applicable		
	Base model	Type of connection	4(A), 2(B)	Port size Note)		applicable	solenoid	5 station weight (kg)	
			port location	1(P), 5(R1), 3(R2)	4(A), 2(B)	stations	valve	(Kg)	
VQ4000	VV5Q41-□□□	<ul> <li>F kit–D-sub connector</li> <li>T kit–Terminal block box</li> <li>L kit–Lead wire</li> <li>S kit–Serial transmission</li> </ul>		Rc 1/2 Option Direct exhaust with	C8 (For ø8) C10 (For ø10) C12 (For ø12) Rc 1/4 Rc 3/8	F, T kit 12 stations L kit 16 stations	VQ4⊡00 VQ4⊡01	2.24 • L kit • Except solenoid valve weight	
			Bottom	silencer box	Rc 1/4	S kit 10 stations			

te) For details about inch-size One-touch fittings and other thread standards, refer to page 2-5-39.

## Flow Characteristics at the Number of Manifold Stations (Operated individually)

Flow Characteris	tics at the Number of	f Manifold Station	ns (Operated	individually)			VQ0	
Model	Passage/St	ations	Station 1	Station 5	Station 10	Station 15		
		C [dm³/(s·bar)]	5.9	5.9	5.9	5.9	VQ4	
2 position metal seal	$1 \rightarrow 4/2 (P \rightarrow A/B)$	b	0.23	0.23	0.23	0.23		
VQ4 <sup>1</sup> <sub>2</sub> 00		Cv	1.5	1.5	1.5	1.5	VQ5	
VQ4200		C [dm³/(s·bar)]	6.2	6.2 6.2 6		6.2	VQJ	
	$4/2 \rightarrow 5/3$ (A/B $\rightarrow$ EA/EB)	b	0.19	0.19	0.19	0.19	VOT	
		Cv	1.5	1.5 1.5		1.5	VQZ	
		C [dm³/(s·bar)]	6.8	6.8	6.8	6.8		
	$1 \rightarrow 4/2 (P \rightarrow A/B)$	b	0.31	0.31	0.31	0.31		
O position where cool	. , ,	Cv	1.8	1.8	1.8	1.8		
2 position rubber seal		C [dm³/(s·bar)]	7.0	7.0	7.0	7.0		
VQ4 <sup>1</sup> <sub>2</sub> 01	$4/2 \rightarrow 5/3$ (A/B $\rightarrow$ EA/EB)	b	0.38	0.38	0.38	0.38		
	· · · · · ·	Cv	1.9	1.9	1.9	1.9		

Note) Port size: Rc 3/8



Note 1) Release valve spacer, built-in silencer (direct exhaust), exhaust cleaner mounting and double check spacer for residual pressure exhaust cannot be combined with external pilot.

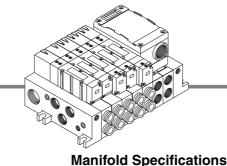
Note 2) Can be mounted on L kit only. For other kits, order E type control unit. (Refer to pages 2-5-40 to 2-5-43.)



**Base Mounted** 

# Series VQ4000

# Kit (Terminal block box kit)



- Enclosure IP65 compliant
- This type has a small terminal block inside a junction box. The provision of a G 3/4 electrical entry allows connection of conduit fittings.
- Maximum stations are 18.
- 2 stations are used for terminal box mounting.

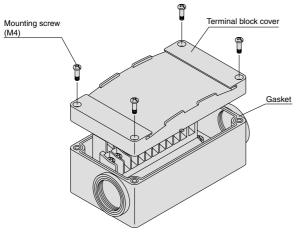
# Porting specifications

		or ung specing				
Series	4(A), 2(B) port	Ports	size	Applicable stations		
	location	1(P), 5(R1), 3(R2)	4(A), 2(B)			
VQ4000	Side	Rc 1/2	C 8, 10, 12 Rc 1/4, 3/8	Max. 18 stations		
	Bottom		Rc 1/4			

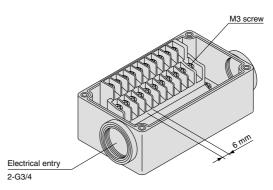
## **Terminal Block Connections**

### Step 1. How to remove terminal block cover

Loosen the 4 mounting screws (M4) and open the terminal block cover.



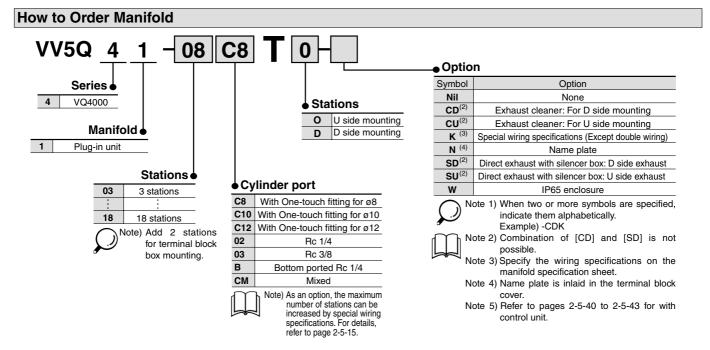
#### Step 2. The diagram on the right shows the terminal block wiring. All stations are provided with double wiring regardless of the valves which are mounted. Connect each wire to the power supply side, according to the markings provided inside the terminal block.



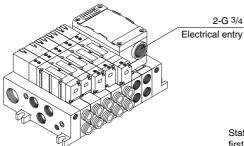
Step 3. How to attach the terminal block cover Securely tighten the screws with the torque shown in thetable below, after confirming that the gasket is installed correctly.

> Proper tightening torque (N·m) 0.7 to 1.2

Applicable terminal 1.25-3S, 1.25Y-3, 1.25Y-3N, 1.25Y-3.5

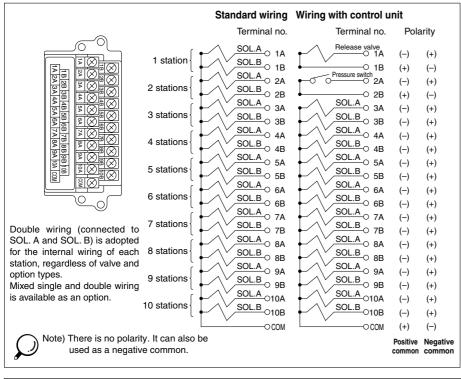


SMC

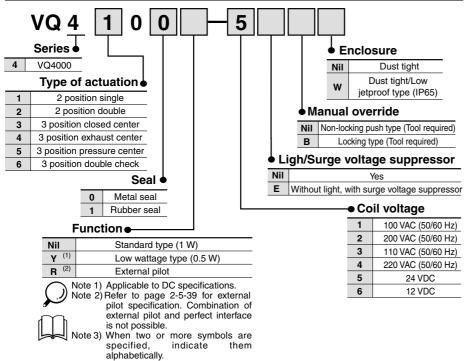


Stations are counted starting from the first station on the D side.

### • Electrical wiring specifications



## How to Order Valves



## **Special Wiring Specifications**

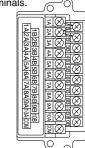
Double wiring (connected to SOL. A and SOL. B) is used for the internal wiring of each station regardless of valve and option types. The optional specification permits mixture of single and double wiring. However, the maximum number of stations is 16.

### 1. How to Order

Indicate option symbol "-K" in the manifold part number and be sure to specify station positions for single or double wiring on the manifold specification sheet.

#### 2. Wiring specifications

Connections begin with the A side solenoid of the first station being connected to terminal no. 1, and continue in the order indicated by the arrowsin the drawing without skipping any terminals.



## How to Order Manifold Assembly

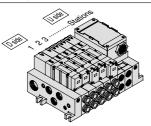
Specify the part numbers for valves and options together beneath the manifold base part number.

## <Example>

Terminal block box kit VV5Q41-07C8T0....1 set —Manifold base part no. \*VQ4100-5......2 sets —Valve part no. (Stations 1 and 2) \*VQ4200-5.......2 sets —Valve part no. (Stations 3 and 4) \*VQ4300-5......1 set —Valve part no. (Station 5) Prefix the asterisk to the part

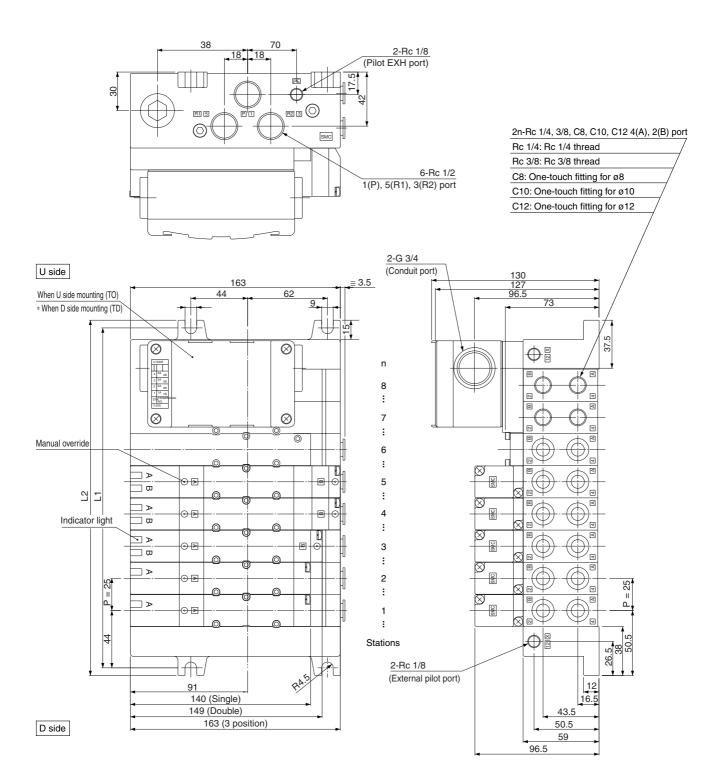
nos. of the solenoid valve, etc.

Enter in order starting from the first station on the D side. When entry of part numbers becomes complicated, indicate in the manifold specification sheet.



Series VQ4000

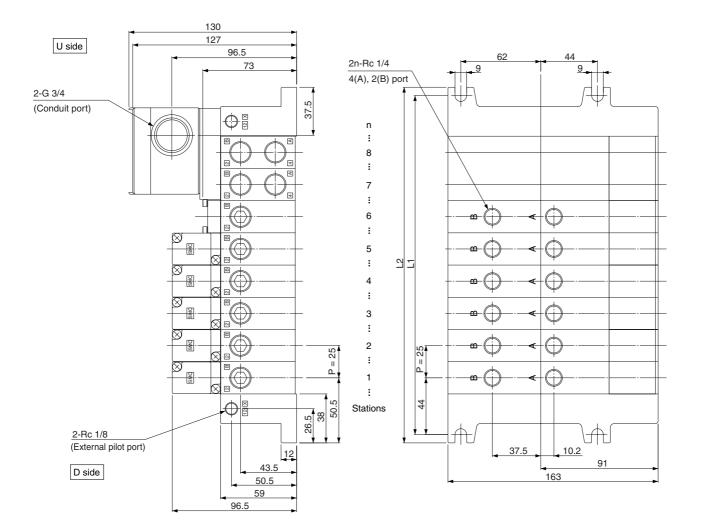
Kit (Terminal block box kit)



Note) Shown VV5Q41-08C12TO-W



## Bottom ported drawing



Formula L1 = 25n + 63, L2 = 25n + 76Dimensions* Including 2 stations for terminal box.																
L	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L1	138	163	188	213	238	263	288	313	338	363	388	413	438	463	488	513
L2	151	176	201	226	251	276	301	326	351	376	401	426	451	476	501	526

