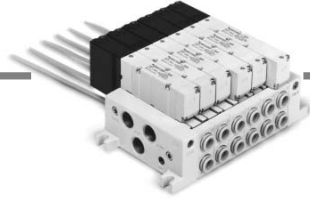


Series VQ4000

Base Mounted

Plug Lead Unit: C Kit (Connector kit)

How to Order Manifold



VV5Q 4 5 - 08 C8 C [] [] - W

Series

4	VQ4000
---	--------

Manifold

5	Plug lead unit
---	----------------

Stations

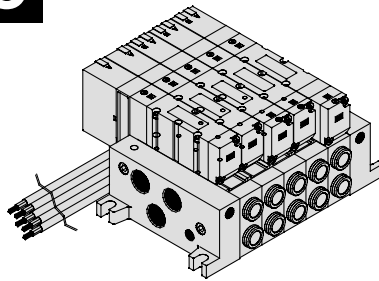
01	1 station
⋮	⋮
16	16 stations

Kit type
C kit (Connector)

Control unit
 Refer to pages 2-5-40 to 2-5-43.

Option

Symbol	Option
Nil	None
CD ⁽²⁾	Exhaust cleaner: For D side mounting
CU ⁽²⁾	Exhaust cleaner: For U side mounting
SB	Direct exhaust with silencer box: Exhaust from both sides
SD ⁽²⁾	Direct exhaust with silencer box: D side exhaust
SU ⁽²⁾	Direct exhaust with silencer box: U side exhaust
W	IP65 enclosure



Note 1) When two or more symbols are specified, indicate them alphabetically.
 Example) -CDW
 Note 2) Combination of [C_D^U] and [S_D^U] is not available.

Cylinder port

C8	With One-touch fitting for ø8
C10	With One-touch fitting for ø10
C12	With One-touch fitting for ø12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

C	Connector kit	Max. 16 stations
---	---------------	------------------

Refer to page 2-5-2 (Grommet type) for wiring specifications.

How to Order Valves

VQ 4 1 5 0 [] - 5 G [] [] []

Series

4	VQ4000
---	--------

Type of actuation

1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center
6	3 position double check

Enclosure

Nil	Dusttight
W	Dusttight/Low jetproof type (IP65)

Seal

0	Metal seal
1	Rubber seal

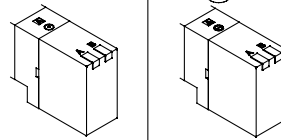
Function

Nil	Standard type (1 W)
Y ⁽¹⁾	Low wattage type (0.5 W)
R ⁽²⁾	External pilot

Note 1) Applicable to DC specifications.
 Note 2) For external pilot specifications, refer to page 2-5-39. Combination of the external pilot and perfect interface is not possible.
 Note 3) When two or more symbols are specified, indicate them alphabetically.

Manual override

Nil:	Non-locking push type (Tool required)
B:	Locking type (Tool required)



Light/Surge voltage suppressor

Nil	Yes
E	Without light, with surge voltage suppressor

Electrical entry

G	Lead wire length 0.6 m
H	Lead wire length 1.5 m

Coil voltage

1	100 VAC (50/60 Hz)	4	220 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)	5	24 VDC
3	110 VAC (50/60 Hz)	6	12 VDC

How to Order Manifold Assembly

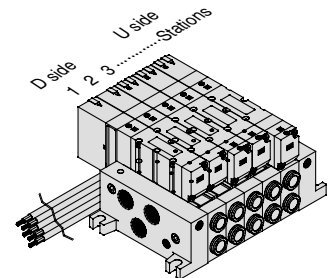
Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>
Connector kit

VV5Q45-05C12C.....1 set — Manifold base part no.
 *VQ4150-5G.....2 sets — Valve part no. (Stations 1 and 2)
 *VQ4250-5G.....2 sets — Valve part no. (Stations 3 and 4)
 *VQ4350-5G.....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.



Simple specials are available with SMC Simple Special System. For details about applicable models, please contact SMC.

Manifold Specifications

Series	Base model	Type of connection	Porting specifications		Maximum applicable stations	Applicable solenoid valve	5 station weight (kg)	
			4(A), (B) port location	Port size ^{Note)}				
				1(P), 5(R1), 3(R2)				4(A), 2(B)
VQ4000	VV5Q45-□□□	■ C kit-Grommet	Side Bottom	Rc 1/2 Option (Direct exhaust with silencer box) Rc 1/4	2 to 16 stations	VQ4□50 VQ4□51	2.0 • Except solenoid valve weight	



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

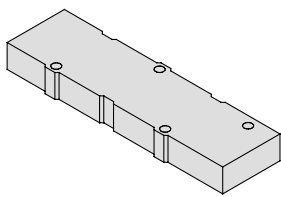
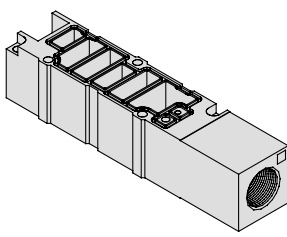
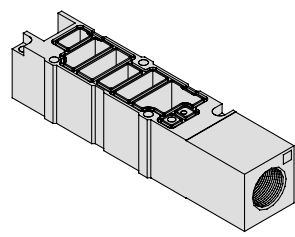
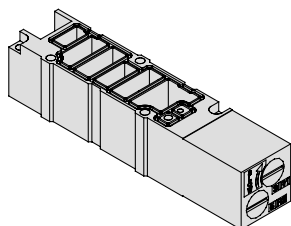
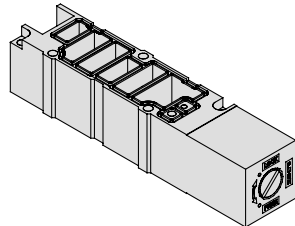
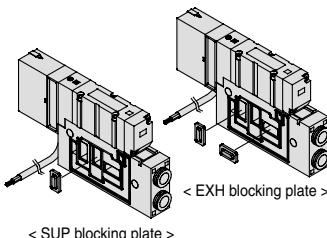
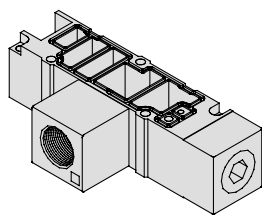
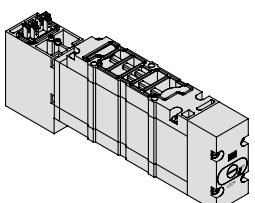
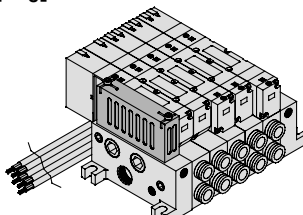
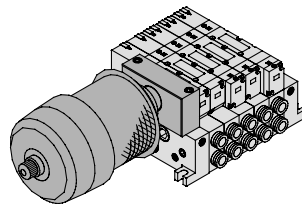
Flow Characteristics at the Number of Manifold Stations (Operated individually)

Model	Passage/Stations		Station 1	Station 5	Station 10	Station 15
2 position metal seal VQ4 ¹ / ₂ 50	1 → 4/2 (P → A/B)	C [dm ³ /(s-bar)]	5.9	5.9	5.9	5.9
		b	0.23	0.23	0.23	0.23
		Cv	1.5	1.5	1.5	1.5
	4/2 → 5/3 (A/B → EA/EB)	C [dm ³ /(s-bar)]	6.2	6.2	6.2	6.2
		b	0.19	0.19	0.19	0.19
		Cv	1.5	1.5	1.5	1.5
2 position rubber seal VQ4 ¹ / ₂ 51	1 → 4/2 (P → A/B)	C [dm ³ /(s-bar)]	6.8	6.8	6.8	6.8
		b	0.31	0.31	0.31	0.31
		Cv	1.8	1.8	1.8	1.8
	4/2 → 5/3 (A/B → EA/EB)	C [dm ³ /(s-bar)]	7.0	7.0	7.0	7.0
		b	0.38	0.38	0.38	0.38
		Cv	1.9	1.9	1.9	1.9



Note) Port size: Rc 3/8

Manifold Option

<p>Blanking plate assembly VVQ4000-10A-5</p> 	<p>Individual SUP spacer VVQ4000-P-5-⁰²/₀₃</p> 	<p>Individual EXH spacer VVQ4000-R-5-⁰²/₀₃</p> 	<ul style="list-style-type: none"> Refer to pages 2-5-34 to 2-5-38 for detail dimensions of each option. For replacement parts, refer to page 2-5-47. Refer to pages 2-5-40 to 2-5-43 for control unit.
<p>Throttle valve spacer VVQ4000-20A-5</p> 	<p>SUP stop valve spacer VVQ4000-37A-5</p> 	<p>SUP/EXH block plate VVQ4000-16A</p> 	
<p>Release valve spacer VVQ4000-24A-5D ^{Note)}</p> 	<p>Double check spacer with residual pressure exhaust VVQ4000-25A-5 ^{Note)}</p> 	<p>Direct exhaust with silencer box [-S^D/_U]^{Note)}</p> 	<p>For exhaust cleaner mounting [-C^D/_U]^{Note)}</p> 



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

VQC

SQ

VQ0

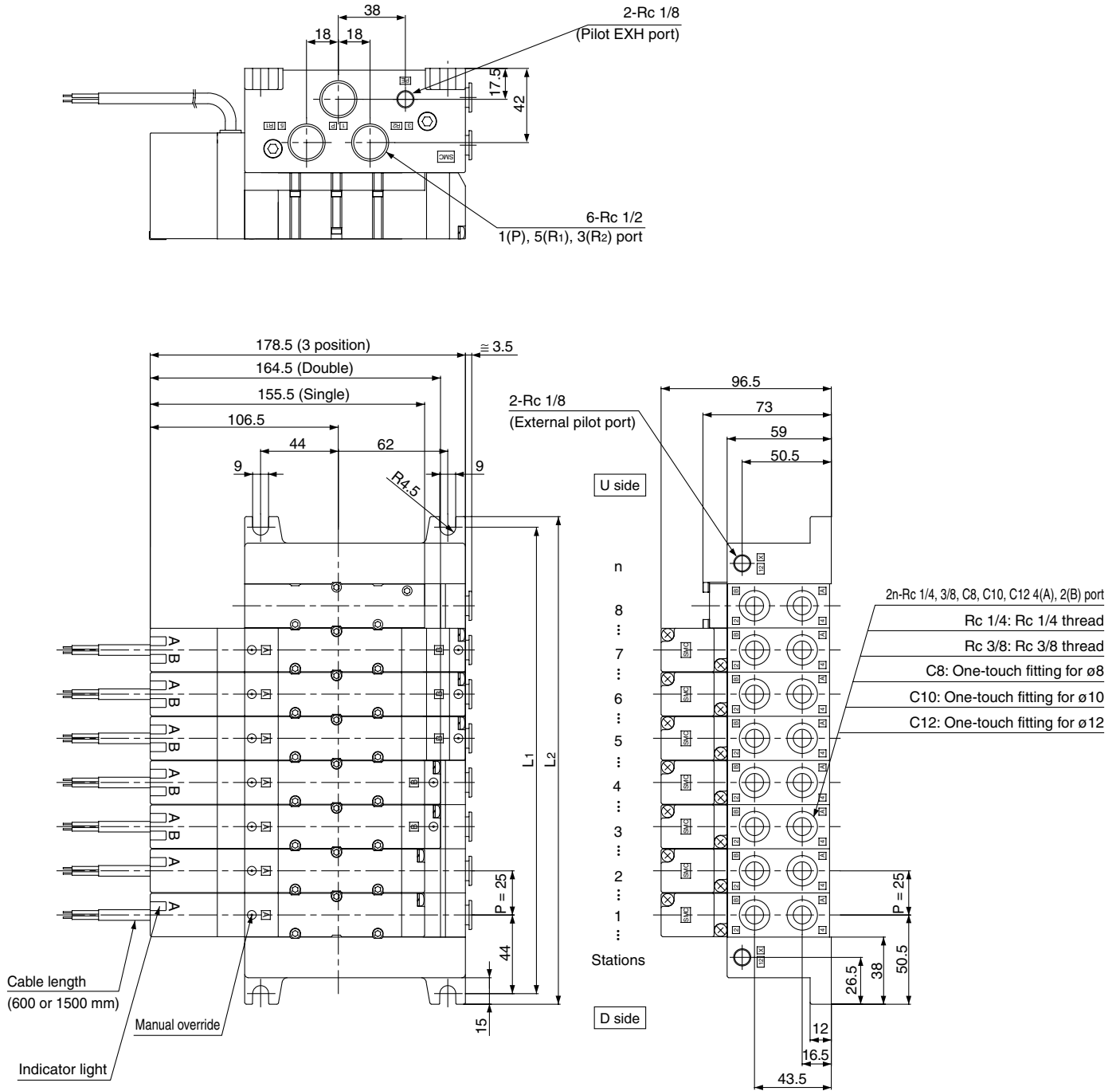
VQ4

VQ5

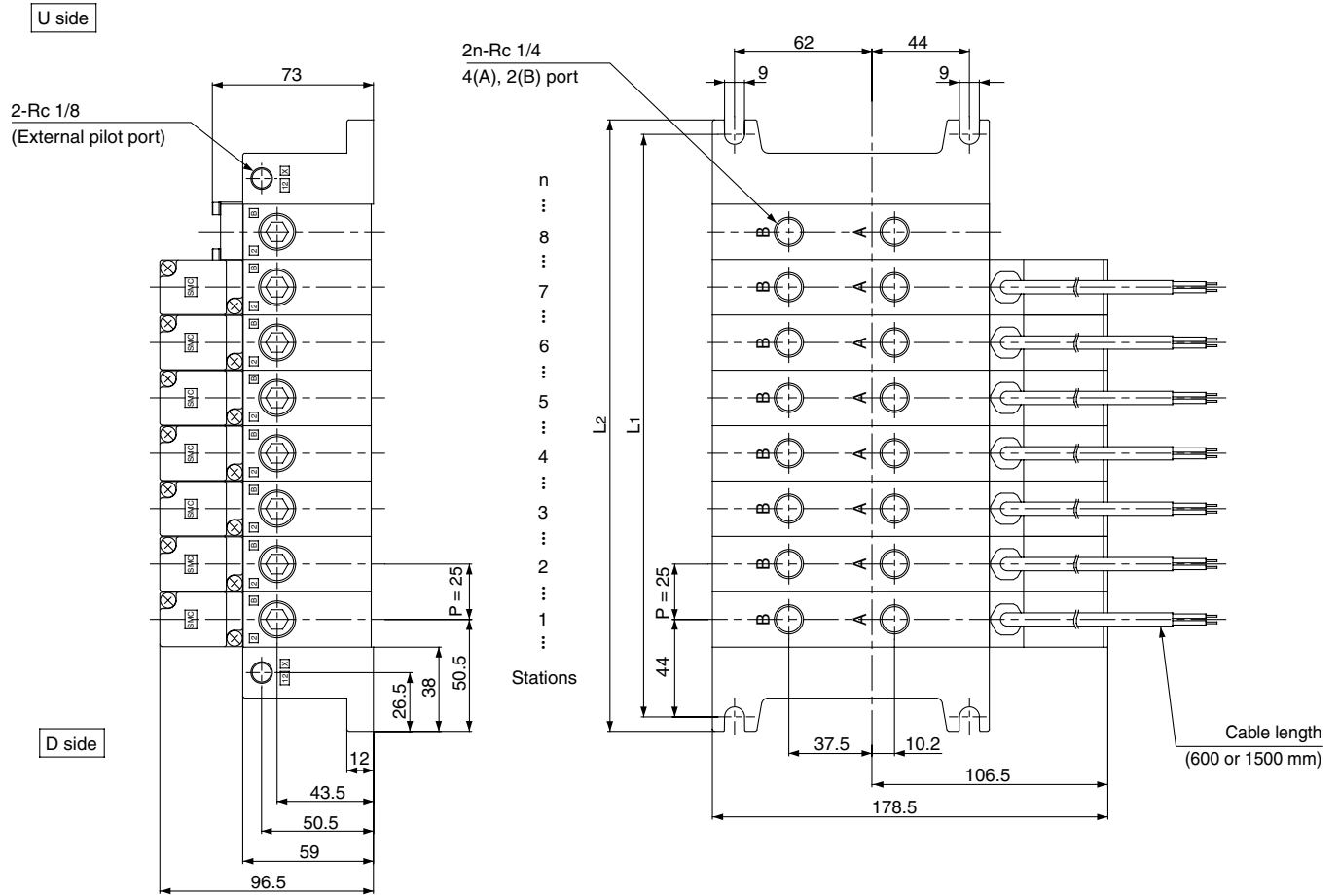
VQZ

VQD

C Kit (Connector kit)



Bottom ported drawing



- VQC
- SQ
- VQ0
- VQ4
- VQ5
- VQZ
- VQD

Dimensions

Formula $L1 = 25n + 63$, $L2 = 25n + 76$ n: Station (Maximum 16 stations)

L	n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1		88	113	138	163	188	213	238	263	288	313	338	363	388	413	438	463
L2		101	126	151	176	201	226	251	276	301	326	351	376	401	426	451	476