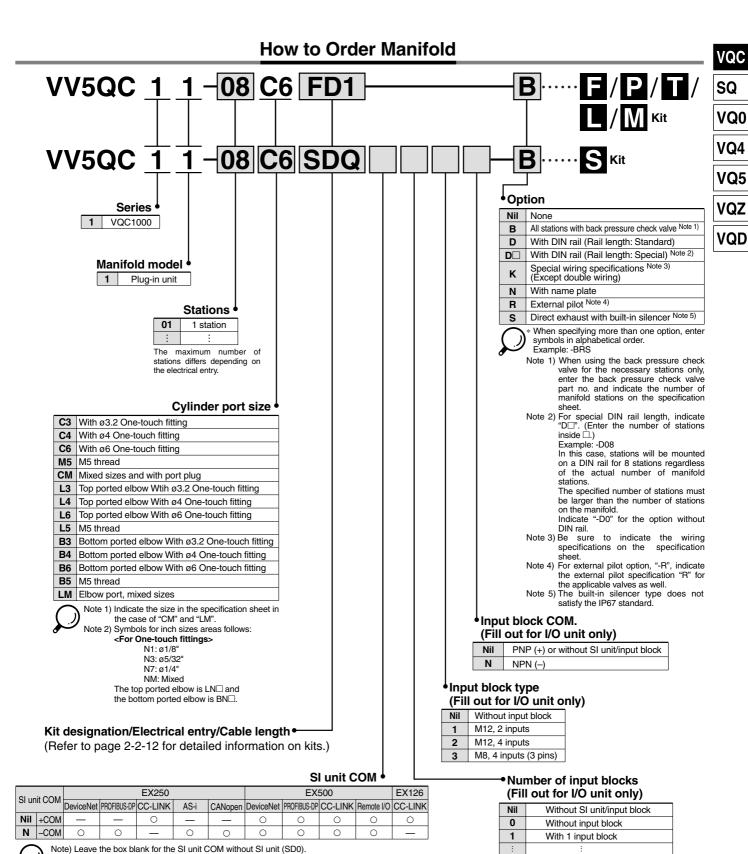
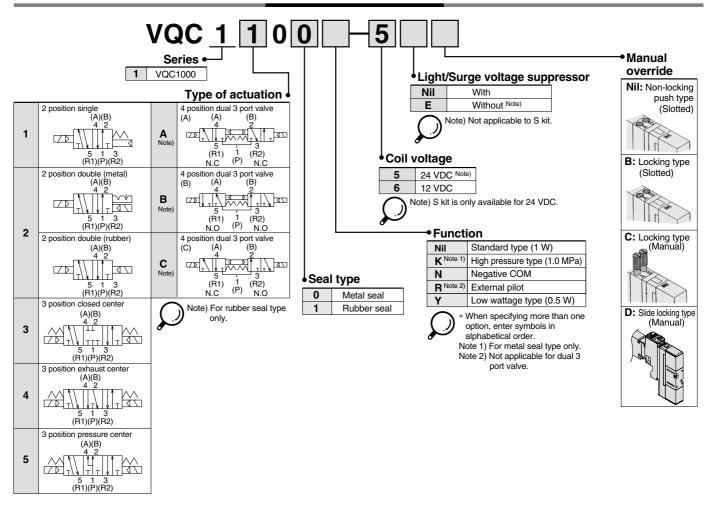
Series VQC1000 Base Mounted Plug-in Unit



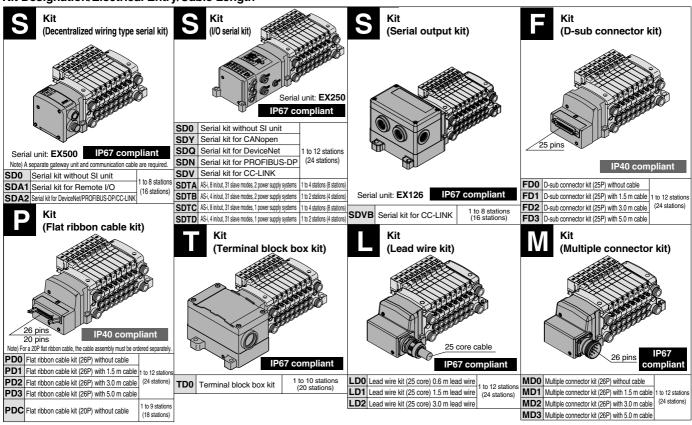
8

With 8 input blocks

How to Order Valves



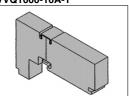
Kit Designation/Electrical Entry/Cable Length



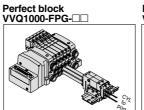
Plug-in Unit Series VQC1000

Manifold Option

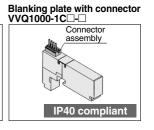
Blanking plate assembly VVQ1000-10A-1



SUP block plate VVQ1000-16A



Dual flow fitting assembly VVQ1000-52A-C8



VQC

SQ

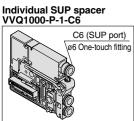
VQ0

VQ4

VQ5

VQZ

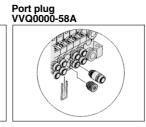
VQD





EXH block plate assembly

Elbow fitting assembly VVQ1000-F-L□

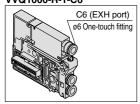


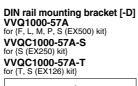
Terminal n SOL. A_O 1 SOL. A_O 14 Station 2 SOL A 2 140 140 0 2 150 0 3 160 0 4 170 0 5 190 0 6 190 0 7 200 0 8 210 0 9 220 0 10 230 0 11 240 0 12 250 0 13 SOL. B SOL. B 16 Station 5 SOL. A SOL. B 17 SOL. A_O 5 SOL. B_O 18 SOL. A SOL. B SOL. B \circ

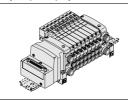
Electrical wiring specifications [-K]

D-sub connector

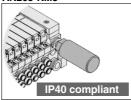
Individual EXH spacer VVQ1000-R-1-C6







Silencer (For EXH port) AN200-KM8 AN203-KM8



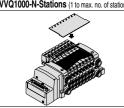
Back pressure check valve assembly [-B] VVQ1000-18A



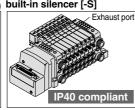
Standard manifolds are for double wiring, but mixed wiring (single and double wiring) can be specified as options.

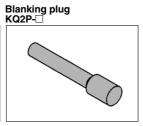
Connector terminal no.

Name plate [-N] VVQ1000-N-Stations (1 to max. no. of stations)









VQC

SQ

VQ₀

VQ4

VQ5

VQZ

VQD

Standard Specifications

	Va	alve Configuration	ı	Metal seal Rubber seal					
	Flu	uid		Air/Inert gas					
	8	Max. operating p	ressure	0.7 MPa (High pressure type: 1.0 MPa) Note 4)					
	VQC1000/2000		Single	0.1 MPa	0.15 MPa				
		Min. operating pressure	Double	0.1 I	MPa				
			3 position	0.1 MPa	0.2 MPa				
ions			4 position	_	0.15 MPa				
Valve specifications	0	Max. operating p	ressure Note 3)	1.0 MPa (0.7 MPa)					
Secil	400	Ndin an austina	Single	0.15 MPa	0.2 MPa				
ve st	VQC4000	Min. operating pressure	Double	0.15	MPa				
Val	>		3 position	0.15 MPa	0.2 MPa				
	Pr	oof pressure		1.5 MPa					
	An	mbient and fluid te	mperature	-10 to 50°C Note 1)					
	Lu	brication		Not required					
	Ma	anual override		Push type/Locking type (tool required)/Locking type (Manual override) Note 5)/Slide locking type Note 5)					
	lm	pact resistance/Vibra	ation resistance	150/30 m/s ^{2 Note 2)}					
	Er	nclosure		Dust proof (IP67 compliant)					
	Ra	ated coil voltage		24 VDC					
tions	All	lowable voltage fl	uctuation	±10% of rated voltage					
Electrical ecificatio	Co	oil insulation type		Equivalent to B type					
Electrical specifications		ower consumption	24 VDC	1 W DC (42 mA), 0.5 W DC (21 mA)					
0)	(Current) 12 VI			1 W DC (83 mA), 0.5 W DC (42 mA)					

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

Note 2) Impact resistance: No malfunction resulted from the impact test using a drop impact tester. The test was performed one time each in the axial and right angle directions of the main valve and armature, for both energized and de-energized states.

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000Hz. Test was performed in the axial and right angle directions of the main valve and armature for both energized and de-energized states.

Note 3) Values in () are for the low wattage (0.5 W) specification.

Note 4) Metal seal type only.

Note 5) Only for VQC1000/2000.

Manifold Specifications

				Piping specificat	ions	Note 2)	Applicable	5 station weight (g)
Series	Base model	Connection type	Port	Port siz	ze Note 1)	Applicable stations	solenoid	
			direction	1, 3 (P, R)	2, 4 (A, B)	Glationo	valves	
VQC1000	VV5QC11-□□□		Side	C8 (For ø8) Options Direct outlet with built-in silencer	C4 (For ø4) C6 (For ø6)	(F, L, M and P kits) 1 to 12 stations) (T kit 1 to 10 stations)	VQC1□00-5 VQC1□01-5	628 (Single) 759 (Double, 3P)
VQC2000	VV5QC21-□□□	■ F Kit: D-sub connector ■ P Kit: Flat cable ■ T Kit: Terminal block box ■ S Kit: Serial transmission ■ L Kit: Lead wire ■ M Kit: Multiple connector	Side	C10 (For Ø10) Options Direct outlet with built-in silencer Branch type C12 (for Ø12)	C4 (For ø4) C6 (For ø6) C8 (For ø8)	S kit 1 to 8 stations: EX500 1 to 12 stations: EX250 1 to 8 stations: EX250 EX126	VQC2□00-5 VQC2□01-5	1051 (Single) 1144 (Double, 3P)
VQC4000	VV5QC41-□□□		Side	P: Rc 1/2 R: Rc 3/4	C8 (For Ø8) C10 (For Ø10) C12 (For Ø12) Rc 1/4 Rc 3/8	(F, L, M and P kits) 1 to 12 stations / T kit 1 to 10 stations / S kit 1 to 12 stations: EX240, EX250 1 to 8 stations: EX500	VQC4□00-5	4150 S kit (without unit) Solenoid weight is not included.
			Bottom		Rc 1/4	1 to 8 stations: EX126		

Note 1) One-touch fittings in inch sizes are also available.

Note 2) An optional specification for special wiring is available to increase the maximum number of stations.



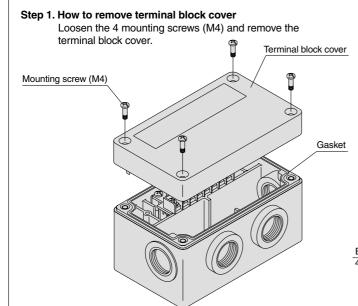
VQC1000/2000/4000 Kit (Serial transmission kit) for I/O IP67 compliant

Compatible network

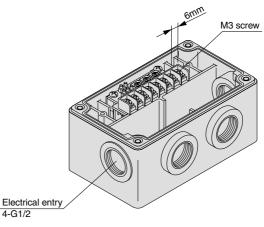
CC-Link

• The serial transmission system greatly reduces connection work, minimizes wiring, and saves space.

Terminal Block Connection



Step 2. Wire the cables according to the terminal block specifications below. Pay attention to the wire bound positions.



Step 3. How to replace the terminal block cover

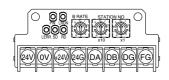
Securely tighten the screws to the torque shown in the table below, after confirming that the gasket is installed correctly.

Proper tightening torque (N·m)
0.7 to 1.2

- Applicable crimp terminal (fork tongue type): 1.25-3S, 1.25Y-3 1.25Y-3N, 1.25Y-3.5
- * For detailed specifications and handling, refer to the operation manual provided by SMC.

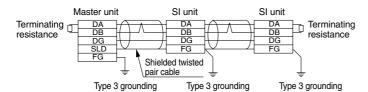
Terminal Block Details

• Terminal block LED descriptions



Description	Function
PW	ON when transmission power supply is ON. OFF when transmission power supply is OFF.
L RUN	ON when normal data is received.
SD	ON when data is sent.
RD	ON when data is received.
L ERR.	ON for transmission error and incorrect settings. BLINKING for change in station or transmission speed settings.

Cable wiring

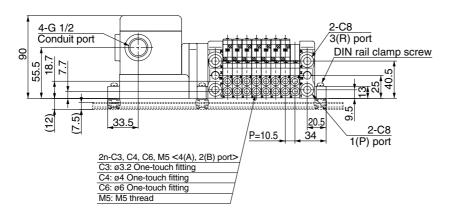


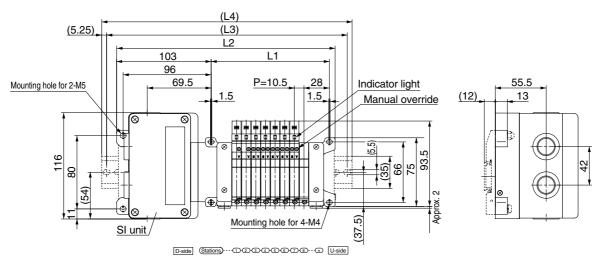
Note

 CC-LINK System Master unit: AJ61BT11 Master unit: A1SJ61BT11 Master unit: AJ61QBT11 Master unit: A1SJ61QBT11

• 16 outputs

VV5QC11 S Kit (Serial transmission kit: EX126)





Formulas

L1 = 10.5n + 45 (Maximum 16 single wiring stations) L2 = 10.5n + 154.5

		LZ = 10.5H + 104.5 II.											i. Stations			
Ln	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	55.5	66	76.5	87	97.5	108	118.5	129	139.5	150	160.5	171	181.5	192	202.5	213
L2	165	175.5	186	196.5	207	217.5	228	238.5	249	259.5	270	280.5	291	301.5	312	322.5
L3	187.5	200	212.5	212.5	225	237.5	250	262.5	275	275	287.5	300	312.5	325	337.5	337.5
L4	198	210.5	223	223	235.5	248	260.5	273	285.5	285.5	298	310.5	323	335.5	348	348

* With signal cut block, L4 is obtained by adding approximately 30 mm to L2.

SQ

VQC

VQ0

VQ4

VQ5

VQZ

VQD