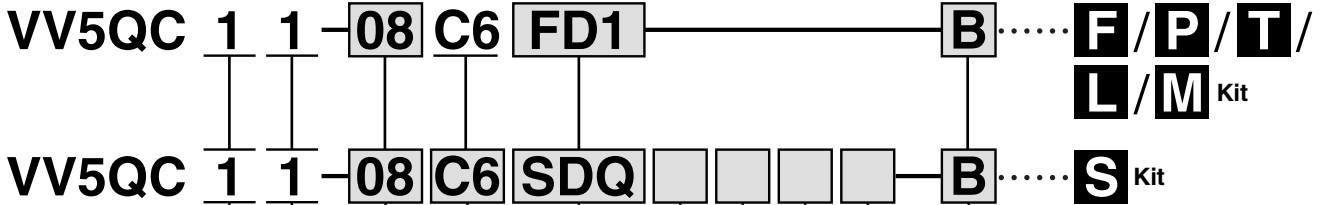


Series VQC1000

Base Mounted Plug-in Unit

How to Order Manifold



Series

1	VQC1000
---	---------

Manifold model

1	Plug-in unit
---	--------------

Stations

01	1 station
⋮	⋮

The maximum number of stations differs depending on the electrical entry.

Cylinder port size

C3	With ø3.2 One-touch fitting
C4	With ø4 One-touch fitting
C6	With ø6 One-touch fitting
M5	M5 thread
CM	Mixed sizes and with port plug
L3	Top ported elbow With ø3.2 One-touch fitting
L4	Top ported elbow With ø4 One-touch fitting
L6	Top ported elbow With ø6 One-touch fitting
L5	M5 thread
B3	Bottom ported elbow With ø3.2 One-touch fitting
B4	Bottom ported elbow With ø4 One-touch fitting
B6	Bottom ported elbow With ø6 One-touch fitting
B5	M5 thread
LM	Elbow port, mixed sizes

Note 1) Indicate the size in the specification sheet in the case of "CM" and "LM".

Note 2) Symbols for inch sizes areas follows:
<For One-touch fittings>
 N1: ø1/8"
 N3: ø5/32"
 N7: ø1/4"
 NM: Mixed

The top ported elbow is LN□ and the bottom ported elbow is BN□.

Kit designation/Electrical entry/Cable length
 (Refer to page 2-2-12 for detailed information on kits.)

Option

Nil	None
B	All stations with back pressure check valve ^{Note 1)}
D	With DIN rail (Rail length: Standard)
D□	With DIN rail (Rail length: Special) ^{Note 2)}
K	Special wiring specifications ^{Note 3)} (Except double wiring)
N	With name plate
R	External pilot ^{Note 4)}
S	Direct exhaust with built-in silencer ^{Note 5)}

* When specifying more than one option, enter symbols in alphabetical order.
 Example: -BRS

Note 1) When using the back pressure check valve for the necessary stations only, enter the back pressure check valve part no. and indicate the number of manifold stations on the specification sheet.

Note 2) For special DIN rail length, indicate "D□". (Enter the number of stations inside □.)
 Example: -D08
 In this case, stations will be mounted on a DIN rail for 8 stations regardless of the actual number of manifold stations.
 The specified number of stations must be larger than the number of stations on the manifold.
 Indicate "-D0" for the option without DIN rail.

Note 3) Be sure to indicate the wiring specifications on the specification sheet.

Note 4) For external pilot option, "-R", indicate the external pilot specification "R" for the applicable valves as well.

Note 5) The built-in silencer type does not satisfy the IP67 standard.

Input block COM.
 (Fill out for I/O unit only)

Nil	PNP (+) or without SI unit/input block
N	NPN (-)

Input block type
 (Fill out for I/O unit only)

Nil	Without input block
1	M12, 2 inputs
2	M12, 4 inputs
3	M8, 4 inputs (3 pins)

SI unit COM

SI unit COM	EX250					EX500				EX126
	DeviceNet	PROFIBUS-DP	CC-LINK	AS-i	CANopen	DeviceNet	PROFIBUS-DP	CC-LINK	Remote I/O	CC-LINK
Nil +COM	—	—	○	—	—	○	○	○	○	○
N -COM	○	○	—	○	○	○	○	○	○	—

Note) Leave the box blank for the SI unit COM without SI unit (SD0).

Number of input blocks
 (Fill out for I/O unit only)

Nil	Without SI unit/input block
0	Without input block
1	With 1 input block
⋮	⋮
8	With 8 input blocks

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

How to Order Valves

VQC 1 1 0 0 **5**

Series
1 VQC1000

Type of actuation

1	2 position single (A)(B) 4 2 5 1 3 (R1)(P)(R2)	A Note)	4 position dual 3 port valve (A) (A) (B) 4 2 5 1 3 (R1) 1 (R2) N.C (P) N.C
2	2 position double (metal) (A)(B) 4 2 5 1 3 (R1)(P)(R2)	B Note)	4 position dual 3 port valve (B) (A) (B) 4 2 5 1 3 (R1) 1 (R2) N.O (P) N.O
	2 position double (rubber) (A)(B) 4 2 5 1 3 (R1)(P)(R2)		C Note)
3	3 position closed center (A)(B) 4 2 5 1 3 (R1)(P)(R2)	Note) For rubber seal type only.	4 position dual 3 port valve (C) (A) (B) 4 2 5 1 3 (R1) 1 (R2) N.C (P) N.O
	3 position exhaust center (A)(B) 4 2 5 1 3 (R1)(P)(R2)		
	3 position pressure center (A)(B) 4 2 5 1 3 (R1)(P)(R2)		

Seal type

0	Metal seal
1	Rubber seal

Light/Surge voltage suppressor

Nil	With
E	Without Note)

Note) Not applicable to S kit.

Coil voltage

5	24 VDC Note)
6	12 VDC

Note) S kit is only available for 24 VDC.

Function

Nil	Standard type (1 W)
K Note 1)	High pressure type (1.0 MPa)
N	Negative COM
R Note 2)	External pilot
Y	Low wattage type (0.5 W)

* When specifying more than one option, enter symbols in alphabetical order.
Note 1) For metal seal type only.
Note 2) Not applicable for dual 3 port valve.

Manual override

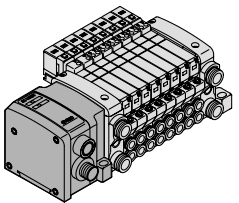
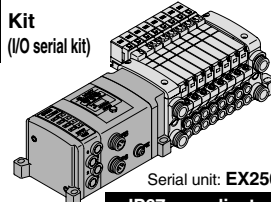
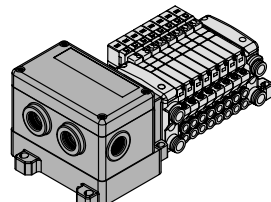
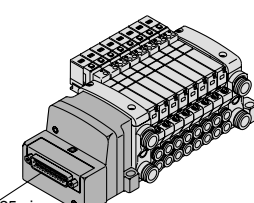
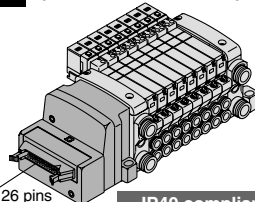
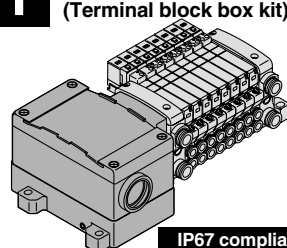
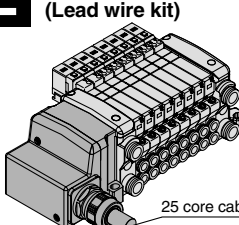
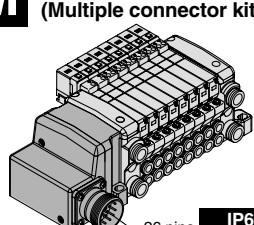
Nil: Non-locking push type (Slotted)

B: Locking type (Slotted)

C: Locking type (Manual)

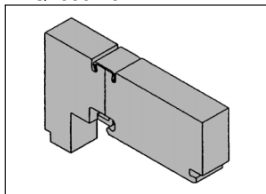
D: Slide locking type (Manual)

Kit Designation/Electrical Entry/Cable Length

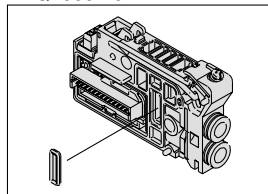
<p>S Kit (Decentralized wiring type serial kit)</p>  <p>Serial unit: EX500 IP67 compliant</p> <p>Note) A separate gateway unit and communication cable are required.</p> <table border="1"> <tr> <td>SD0 Serial kit without SI unit</td> <td>1 to 8 stations (16 stations)</td> </tr> <tr> <td>SDA1 Serial kit for Remote I/O</td> <td>1 to 8 stations (16 stations)</td> </tr> <tr> <td>SDA2 Serial kit for DeviceNet/PROFIBUS-DP/CC-LINK</td> <td>1 to 8 stations (16 stations)</td> </tr> </table>	SD0 Serial kit without SI unit	1 to 8 stations (16 stations)	SDA1 Serial kit for Remote I/O	1 to 8 stations (16 stations)	SDA2 Serial kit for DeviceNet/PROFIBUS-DP/CC-LINK	1 to 8 stations (16 stations)	<p>S Kit (I/O serial kit)</p>  <p>Serial unit: EX250 IP67 compliant</p> <table border="1"> <tr> <td>SD0 Serial kit without SI unit</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>SDY Serial kit for CANopen</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>SDQ Serial kit for DeviceNet</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>SDN Serial kit for PROFIBUS-DP</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>SDV Serial kit for CC-LINK</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>SDTA AS-; 8 in/out, 31 slave modes, 2 power supply systems</td> <td>1 to 4 stations (8 stations)</td> </tr> <tr> <td>SDTB AS-; 4 in/out, 31 slave modes, 2 power supply systems</td> <td>1 to 2 stations (4 stations)</td> </tr> <tr> <td>SDTC AS-; 8 in/out, 31 slave modes, 1 power supply systems</td> <td>1 to 4 stations (8 stations)</td> </tr> <tr> <td>SDTD AS-; 4 in/out, 31 slave modes, 1 power supply systems</td> <td>1 to 2 stations (4 stations)</td> </tr> </table>	SD0 Serial kit without SI unit	1 to 12 stations (24 stations)	SDY Serial kit for CANopen	1 to 12 stations (24 stations)	SDQ Serial kit for DeviceNet	1 to 12 stations (24 stations)	SDN Serial kit for PROFIBUS-DP	1 to 12 stations (24 stations)	SDV Serial kit for CC-LINK	1 to 12 stations (24 stations)	SDTA AS-; 8 in/out, 31 slave modes, 2 power supply systems	1 to 4 stations (8 stations)	SDTB AS-; 4 in/out, 31 slave modes, 2 power supply systems	1 to 2 stations (4 stations)	SDTC AS-; 8 in/out, 31 slave modes, 1 power supply systems	1 to 4 stations (8 stations)	SDTD AS-; 4 in/out, 31 slave modes, 1 power supply systems	1 to 2 stations (4 stations)	<p>S Kit (Serial output kit)</p>  <p>Serial unit: EX126 IP67 compliant</p> <table border="1"> <tr> <td>SDVB Serial kit for CC-LINK</td> <td>1 to 8 stations (16 stations)</td> </tr> </table>	SDVB Serial kit for CC-LINK	1 to 8 stations (16 stations)	<p>F Kit (D-sub connector kit)</p>  <p>25 pins</p> <p>IP40 compliant</p> <table border="1"> <tr> <td>FD0 D-sub connector kit (25P) without cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>FD1 D-sub connector kit (25P) with 1.5 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>FD2 D-sub connector kit (25P) with 3.0 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>FD3 D-sub connector kit (25P) with 5.0 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> </table>	FD0 D-sub connector kit (25P) without cable	1 to 12 stations (24 stations)	FD1 D-sub connector kit (25P) with 1.5 m cable	1 to 12 stations (24 stations)	FD2 D-sub connector kit (25P) with 3.0 m cable	1 to 12 stations (24 stations)	FD3 D-sub connector kit (25P) with 5.0 m cable	1 to 12 stations (24 stations)
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<p>P Kit (Flat ribbon cable kit)</p>  <p>26 pins 20 pins</p> <p>IP40 compliant</p> <p>Note) For a 20P flat ribbon cable, the cable assembly must be ordered separately.</p> <table border="1"> <tr> <td>PD0 Flat ribbon cable kit (26P) without cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>PD1 Flat ribbon cable kit (26P) with 1.5 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>PD2 Flat ribbon cable kit (26P) with 3.0 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>PD3 Flat ribbon cable kit (26P) with 5.0 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>PDC Flat ribbon cable kit (20P) without cable</td> <td>1 to 9 stations (18 stations)</td> </tr> </table>	PD0 Flat ribbon cable kit (26P) without cable	1 to 12 stations (24 stations)	PD1 Flat ribbon cable kit (26P) with 1.5 m cable	1 to 12 stations (24 stations)	PD2 Flat ribbon cable kit (26P) with 3.0 m cable	1 to 12 stations (24 stations)	PD3 Flat ribbon cable kit (26P) with 5.0 m cable	1 to 12 stations (24 stations)	PDC Flat ribbon cable kit (20P) without cable	1 to 9 stations (18 stations)	<p>T Kit (Terminal block box kit)</p>  <p>IP67 compliant</p> <table border="1"> <tr> <td>TD0 Terminal block box kit</td> <td>1 to 10 stations (20 stations)</td> </tr> </table>	TD0 Terminal block box kit	1 to 10 stations (20 stations)	<p>L Kit (Lead wire kit)</p>  <p>25 core cable</p> <p>IP67 compliant</p> <table border="1"> <tr> <td>LD0 Lead wire kit (25 core) 0.6 m lead wire</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>LD1 Lead wire kit (25 core) 1.5 m lead wire</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>LD2 Lead wire kit (25 core) 3.0 m lead wire</td> <td>1 to 12 stations (24 stations)</td> </tr> </table>	LD0 Lead wire kit (25 core) 0.6 m lead wire	1 to 12 stations (24 stations)	LD1 Lead wire kit (25 core) 1.5 m lead wire	1 to 12 stations (24 stations)	LD2 Lead wire kit (25 core) 3.0 m lead wire	1 to 12 stations (24 stations)	<p>M Kit (Multiple connector kit)</p>  <p>26 pins</p> <p>IP67 compliant</p> <table border="1"> <tr> <td>MD0 Multiple connector kit (26P) without cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>MD1 Multiple connector kit (26P) with 1.5 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>MD2 Multiple connector kit (26P) with 3.0 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>MD3 Multiple connector kit (26P) with 5.0 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> </table>	MD0 Multiple connector kit (26P) without cable	1 to 12 stations (24 stations)	MD1 Multiple connector kit (26P) with 1.5 m cable	1 to 12 stations (24 stations)	MD2 Multiple connector kit (26P) with 3.0 m cable	1 to 12 stations (24 stations)	MD3 Multiple connector kit (26P) with 5.0 m cable	1 to 12 stations (24 stations)								
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Manifold Option

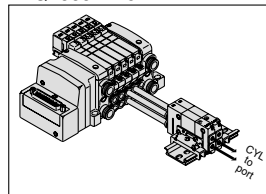
Blanking plate assembly
VVQ1000-10A-1



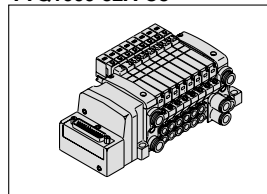
SUP block plate
VVQ1000-16A



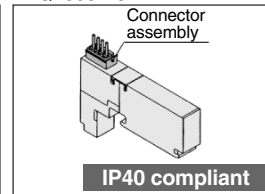
Perfect block
VVQ1000-FPG-□□



Dual flow fitting assembly
VVQ1000-52A-C8



Blanking plate with connector
VVQ1000-1C□□-□



VQC

SQ

VQ0

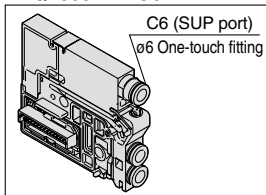
VQ4

VQ5

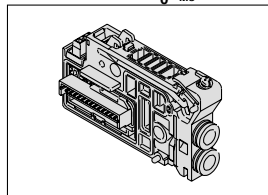
VQZ

VQD

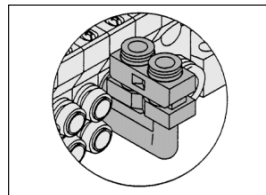
Individual SUP spacer
VVQ1000-P-1-C6



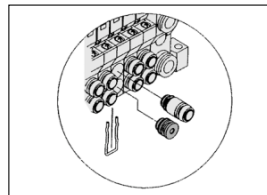
EXH block plate assembly
VVQC1000-19A-S-□□□□□□



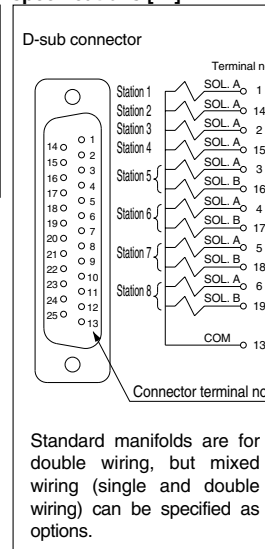
Elbow fitting assembly
VVQ1000-F-L□



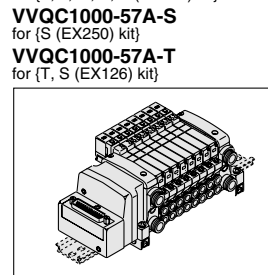
Port plug
VVQ0000-58A



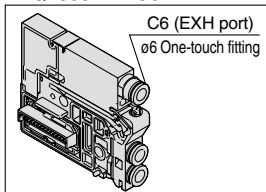
Electrical wiring specifications [-K]



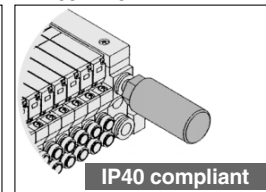
DIN rail mounting bracket [-D]
VVQ1000-57A
for (F, L, M, P, S (EX500) kit)



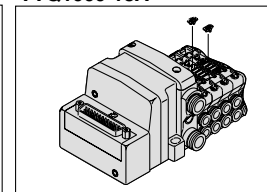
Individual EXH spacer
VVQ1000-R-1-C6



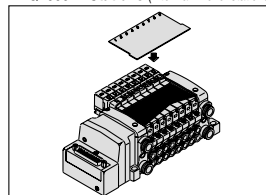
Silencer (For EXH port)
AN200-KM8
AN203-KM8



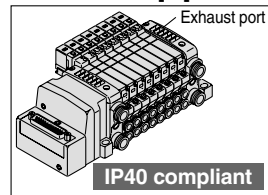
Back pressure check valve assembly [-B]
VVQ1000-18A



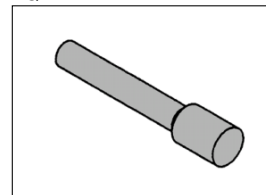
Name plate [-N]
VVQ1000-N-Stations (1 to max. no. of stations)



Direct EXH outlet with built-in silencer [-S]



Blanking plug
KQ2P-□



Standard Specifications

Valve Configuration		Metal seal	Rubber seal		
Fluid		Air/Inert gas			
Valve specifications	VQC1000/2000	Max. operating pressure			
		0.7 MPa (High pressure type: 1.0 MPa) ^{Note 4)}			
		Min. operating pressure	Single	0.1 MPa	0.15 MPa
			Double	0.1 MPa	
	3 position		0.1 MPa	0.2 MPa	
	4 position	—	0.15 MPa		
	VQC4000	Max. operating pressure ^{Note 3)}		1.0 MPa (0.7 MPa)	
		Min. operating pressure	Single	0.15 MPa	0.2 MPa
			Double	0.15 MPa	
	3 position	0.15 MPa	0.2 MPa		
Proof pressure		1.5 MPa			
Ambient and fluid temperature		-10 to 50°C ^{Note 1)}			
Lubrication		Not required			
Manual override		Push type/Locking type (tool required)/Locking type (Manual override) ^{Note 5)} /Slide locking type ^{Note 5)}			
Impact resistance/Vibration resistance		150/30 m/s ² ^{Note 2)}			
Enclosure		Dust proof (IP67 compliant)			
Electrical specifications	Rated coil voltage		24 VDC		
	Allowable voltage fluctuation		±10% of rated voltage		
	Coil insulation type		Equivalent to B type		
	Power consumption (Current)	24 VDC	1 W DC (42 mA), 0.5 W DC (21 mA)		
		12 VDC	1 W DC (83 mA), 0.5 W DC (42 mA)		

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

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

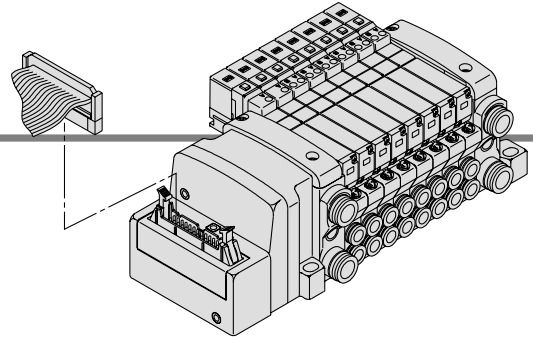
Series	Base model	Connection type	Piping specifications		Applicable stations ^{Note 2)}	Applicable solenoid valves	5 station weight (g)
			Port direction	Port size ^{Note 1)}			
VQC1000	VV5QC11-□□□	<ul style="list-style-type: none"> ■ F Kit: D-sub connector ■ P Kit: Flat cable ■ T Kit: Terminal block box ■ S Kit: Serial transmission ■ L Kit: Lead wire ■ M Kit: Multiple connector 	Side	C8 (For ø8) Options Direct outlet with built-in silencer C3 (For ø3.2) C4 (For ø4) C6 (For ø6) M5 (M5 threads)	(F, L, M and P kits) 1 to 12 stations T kit 1 to 10 stations S kit 1 to 8 stations: EX500 1 to 12 stations: EX250 1 to 8 stations: EX126	VQC1□00-5 VQC1□01-5	628 (Single) 759 (Double, 3P)
VQC2000	VV5QC21-□□□		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)	1 to 8 stations: EX500 1 to 12 stations: EX250 1 to 8 stations: EX126	VQC2□00-5 VQC2□01-5	1051 (Single) 1144 (Double, 3P)
VQC4000	VV5QC41-□□□		Side Bottom	C8 (For ø8) C10 (For ø10) C12 (For ø12) Rc 1/4 Rc 3/8 Rc 1/4	(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 1 to 8 stations: EX126	VQC4□00-5 VQC4□01-5	4150 • S kit (without unit) • Solenoid weight is not included.

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.

Series VQC

P VQC1000/2000/4000
Kit (Flat ribbon cable kit) IP40 compliant

- Using our flat ribbon cable for electrical connections greatly reduces labour, while it also minimizes wiring and saves space.
- We use flat ribbon cables whose connectors (26P and 20P) conform to MIL standards, and are therefore widely compatible with many standard commercial models.
- Top or side entry for the connector can be changed freely, allowing for changes even after mounting, to meet any changing needs for space.



Electrical Wiring Specifications

Flat ribbon cable connector

Double wiring (connected to SOL. A and SOL. B) is used for the internal wiring of each station regardless of valve and option types. Mixed single and double wiring are available as options. Refer to special wiring specifications (options) below.

Connector terminal number

Triangle mark indicator position

<26P>			<20P>		
Station	Terminal no.	Polarity	Station	Terminal no.	Polarity
Station 1	SOL. A 1	(-) (+)	Station 1	SOL. A 1	(-) (+)
	SOL. B 2	(-) (+)		SOL. B 2	(-) (+)
Station 2	SOL. A 3	(-) (+)	Station 2	SOL. A 3	(-) (+)
	SOL. B 4	(-) (+)		SOL. B 4	(-) (+)
Station 3	SOL. A 5	(-) (+)	Station 3	SOL. A 5	(-) (+)
	SOL. B 6	(-) (+)		SOL. B 6	(-) (+)
Station 4	SOL. A 7	(-) (+)	Station 4	SOL. A 7	(-) (+)
	SOL. B 8	(-) (+)		SOL. B 8	(-) (+)
Station 5	SOL. A 9	(-) (+)	Station 5	SOL. A 9	(-) (+)
	SOL. B 10	(-) (+)		SOL. B 10	(-) (+)
Station 6	SOL. A 11	(-) (+)	Station 6	SOL. A 11	(-) (+)
	SOL. B 12	(-) (+)		SOL. B 12	(-) (+)
Station 7	SOL. A 13	(-) (+)	Station 7	SOL. A 13	(-) (+)
	SOL. B 14	(-) (+)		SOL. B 14	(-) (+)
Station 8	SOL. A 15	(-) (+)	Station 8	SOL. A 15	(-) (+)
	SOL. B 16	(-) (+)		SOL. B 16	(-) (+)
Station 9	SOL. A 17	(-) (+)	Station 9	SOL. A 17	(-) (+)
	SOL. B 18	(-) (+)		SOL. B 18	(-) (+)
Station 10	SOL. A 19	(-) (+)	Station 10	COM 19	(+) (-)
	SOL. B 20	(-) (+)		COM 20	(+) (-)
Station 11	SOL. A 21	(-) (+)			
	SOL. B 22	(-) (+)			
Station 12	SOL. A 23	(-) (+)			
	SOL. B 24	(-) (+)			
	COM 25	(+) (-)			
	COM 26	(+) (-)			

Positive COM. spec. Negative COM. spec.

Note) When using the negative COM. specification for VQC1000/2000, use valves for negative COM.

Cable Assembly

AXT100-FC¹₂₆₋₂³

(Type 26P flat ribbon cable connector assemblies can be ordered with manifolds. Refer to manifold ordering.)

Terminal no. Red 28AWG

30 (20P) 37.5 (26P) 6 (15.6) L

Flat ribbon cable connector assemblies (Option)

Cable length (L)	Part no.	
	26P	20P
1.5 m	AXT100-FC26-1	AXT100-FC20-1
3 m	AXT100-FC26-2	AXT100-FC20-2
5 m	AXT100-FC26-3	AXT100-FC20-3

* When using a standard commercial connector, use a type 26P connector conforming to MIL-C-83503 or a type 20P with strain relief.
* Cannot be used for transfer wiring.

Connector Manufacturers Example:

- Hirose Electric CO., Ltd.
- Sumitomo/3-M Limited
- Fujitsu, Ltd.
- Japan Aviation Electronics Industry, Ltd.
- J.S.T. Mfg. Co., Ltd.
- Oki Electric Cable Co., Ltd.

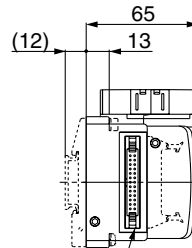
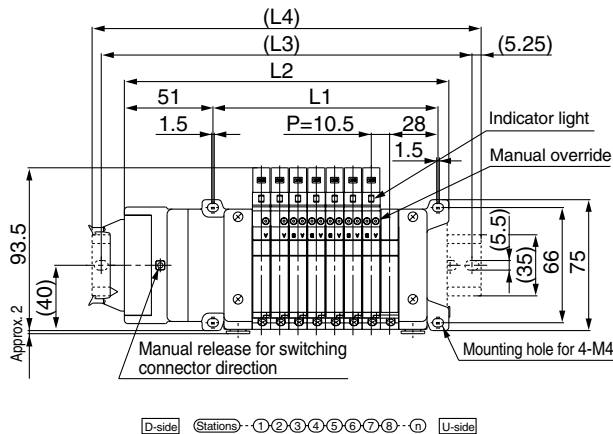
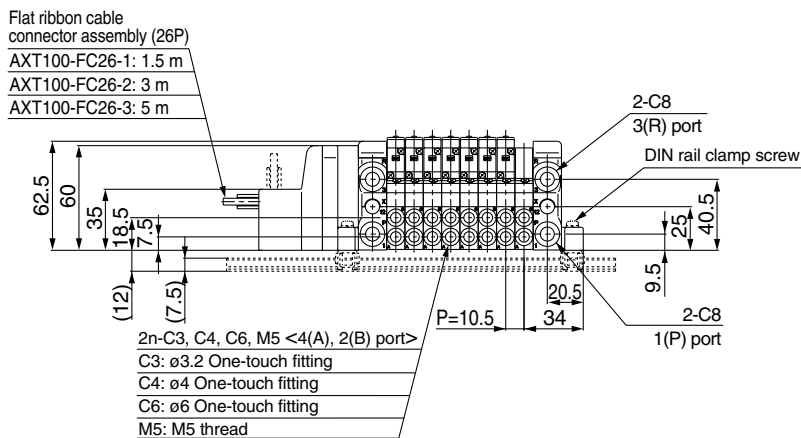
Special Wiring Specifications (Option)

COM. COM. COM. COM.

(For 26P) (For 20P)

Mixed single and double wiring are available as options. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 24.

VV5QC11



Applicable connector:
Flat ribbon cable connector (26P)
(Conforms to MIL-C-83503)

VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

Formulas
L1 = 10.5n + 45 (Maximum 24 single wiring stations)
L2 = 10.5n + 102

n: Stations

L	n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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	223.5	234	244.5	255	265.5	276	286.5	297
L2		112.5	123	133.5	144	154.5	165	175.5	186	196.5	207	217.5	228	238.5	249	259.5	270	280.5	291	301.5	312	322.5	333	343.5	354
L3		137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	300	312.5	325	337.5	350	362.5	375	375		
L4		148	160.5	173	185.5	198	210.5	223	235.5	248	248	260.5	273	285.5	298	310.5	310.5	323	335.5	348	360.5	373	385.5	385.5	

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