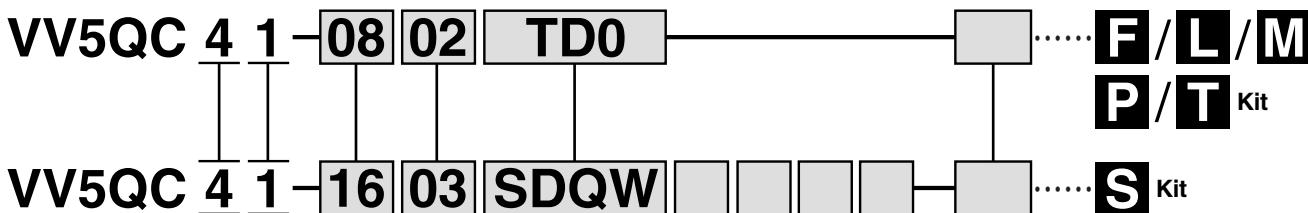


Series VQC4000

Base Mounted Plug-in Unit

How to Order Manifold



Series
4 VQC4000

Manifold model
1 Plug-in unit

Stations
01 1 station
⋮ ⋮

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

Cylinder port size

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

Note 1) Indicate the size in the specification order sheet in the case of "CM".
Note 2) Symbols for inch sizes are as follows:
N7: ø1/4"
N9: ø5/16"
N11: ø3/8"
NM: Mixed

Option

Nil	None
K	Special wiring specifications (except for double wiring) ^{Note 1)}
N	With name plate (available for T kit only) ^{Note 2)}

* When specifying more than one option, enter symbols in alphabetical order. Example: -KN
Note 1) Be sure to indicate the wiring specifications on the specification order sheet.
Note 2) The mounting position of the name plate is on the top face of the cover for the terminal block box.

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

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

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

Nil	Without SI unit/input block (SD0(W))
0	Without input block
1	With 1 input block
⋮	⋮
8	With 8 input blocks

Note) Max. 4 for EX240 and max 8 for EX250.

SI unit COM.

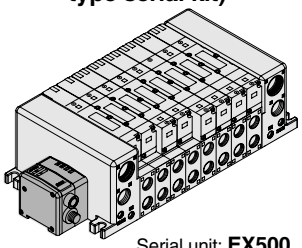
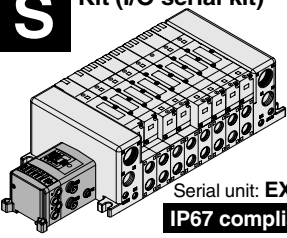
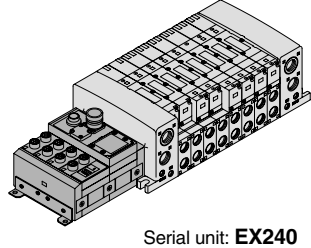
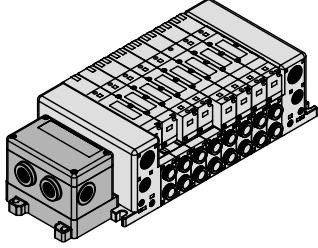
SI unit COM	EX240			EX250				EX500				EX126
	DeviceNet	PROFIBUS-DP	DeviceNet	PROFIBUS-DP	CC-LINK	AS-i	CANopen	DeviceNet	PROFIBUS-DP	CC-LINK	Remote I/O	CC-LINK
Nil +COM	○	—	—	—	○	—	—	○	○	○	○	○
N -COM	—	○	○	○	—	○	○	○	○	○	○	—

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

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

Nil	Without input block
0	M12, 8 inputs (EX240)
1	M12, 2 inputs (EX250)
2	M12, 4 inputs (EX250)
3	M8, 4 inputs (EX250)

Kit Designation/Electrical Entry/Cable Length

S Kit (Decentralized wiring type serial kit)	S Kit (I/O serial kit)	S Kit (I/O serial transmission kit)	S Kit (Serial output kit)																																																
 <p>Serial unit: EX500 IP67 compliant</p>	 <p>Serial unit: EX250 IP67 compliant</p>	 <p>Serial unit: EX240 IP65 compliant</p>	 <p>Serial unit: EX126 IP67 compliant</p>																																																
<table border="1"> <tr><td>SD0</td><td>Serial kit without SI unit</td><td>1 to 8 stations (16 stations)</td></tr> <tr><td>SDA1</td><td>Serial kit for Remote I/O</td><td>1 to 8 stations (16 stations)</td></tr> <tr><td>SDA2</td><td>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)	<table border="1"> <tr><td>SD0</td><td>Serial kit without SI unit</td><td>1 to 12 stations (24 stations)</td></tr> <tr><td>SDY</td><td>Serial kit for CANopen</td><td>1 to 12 stations (24 stations)</td></tr> <tr><td>SDQ</td><td>Serial kit for DeviceNet</td><td>1 to 12 stations (24 stations)</td></tr> <tr><td>SDN</td><td>Serial kit for PROFIBUS-DP</td><td>1 to 12 stations (24 stations)</td></tr> <tr><td>SDV</td><td>Serial kit for CC-LINK</td><td>1 to 12 stations (24 stations)</td></tr> <tr><td>SDTA</td><td>AS-i, 8 in/out, 31 slave modes, 2 power supply systems</td><td>1 to 4 stations (8 stations)</td></tr> <tr><td>SDTB</td><td>AS-i, 4 in/out, 31 slave modes, 2 power supply systems</td><td>1 to 2 stations (4 stations)</td></tr> <tr><td>SDTC</td><td>AS-i, 8 in/out, 31 slave modes, 1 power supply systems</td><td>1 to 4 stations (8 stations)</td></tr> <tr><td>SDTD</td><td>AS-i, 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-i, 8 in/out, 31 slave modes, 2 power supply systems	1 to 4 stations (8 stations)	SDTB	AS-i, 4 in/out, 31 slave modes, 2 power supply systems	1 to 2 stations (4 stations)	SDTC	AS-i, 8 in/out, 31 slave modes, 1 power supply systems	1 to 4 stations (8 stations)	SDTD	AS-i, 4 in/out, 31 slave modes, 1 power supply systems	1 to 2 stations (4 stations)	<table border="1"> <tr><td>SD0W</td><td>Serial kit without SI unit</td><td>1 to 12 stations (16 stations)</td></tr> <tr><td>SDQW</td><td>Serial kit for DeviceNet</td><td>1 to 12 stations (16 stations)</td></tr> <tr><td>SDNW</td><td>Serial kit for PROFIBUS-DP</td><td>1 to 12 stations (16 stations)</td></tr> </table>	SD0W	Serial kit without SI unit	1 to 12 stations (16 stations)	SDQW	Serial kit for DeviceNet	1 to 12 stations (16 stations)	SDNW	Serial kit for PROFIBUS-DP	1 to 12 stations (16 stations)	<table border="1"> <tr><td>SDVB</td><td>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)
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)																																																	
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-i, 8 in/out, 31 slave modes, 2 power supply systems	1 to 4 stations (8 stations)																																																	
SDTB	AS-i, 4 in/out, 31 slave modes, 2 power supply systems	1 to 2 stations (4 stations)																																																	
SDTC	AS-i, 8 in/out, 31 slave modes, 1 power supply systems	1 to 4 stations (8 stations)																																																	
SDTD	AS-i, 4 in/out, 31 slave modes, 1 power supply systems	1 to 2 stations (4 stations)																																																	
SD0W	Serial kit without SI unit	1 to 12 stations (16 stations)																																																	
SDQW	Serial kit for DeviceNet	1 to 12 stations (16 stations)																																																	
SDNW	Serial kit for PROFIBUS-DP	1 to 12 stations (16 stations)																																																	
SDVB	Serial kit for CC-LINK	1 to 8 stations (16 stations)																																																	

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

How to Order Valves

VQC 4 1 0 0 [] - 5 [] []

Series

4 VQC4000

Type of actuation

1	2 position single (A)(B) 4 2 5 1 3 (R1)(P)(R2)	4	3 position exhaust center (A)(B) 4 2 5 1 3 (R1)(P)(R2)
	2 position double (metal) (A)(B) 4 2 5 1 3 (R1)(P)(R2)		3 position pressure center (A)(B) 4 2 5 1 3 (R1)(P)(R2)
2	2 position double (rubber) (A)(B) 4 2 5 1 3 (R1)(P)(R2)	6	3 position perfect (A)(B) 4 2 5 1 3 (R1)(P)(R2)
	3 position closed center (A)(B) 4 2 5 1 3 (R1)(P)(R2)		

Light/Surge voltage suppressor

Nil	With
E	Without light, with surge voltage suppressor

Coil voltage

5	24 VDC <small>Note</small>
6	12 VDC

Note) S kit is only available for 24 VDC.

Function

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

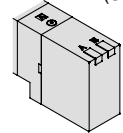
* When specifying more than one option, enter symbols in alphabetical order.

Seal type

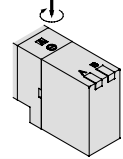
0	Metal seal
1	Rubber seal

Manual override

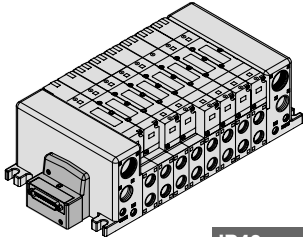
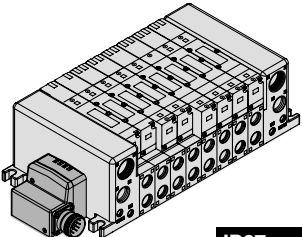
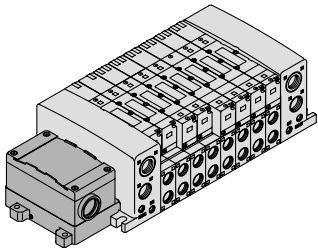
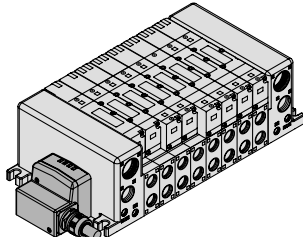
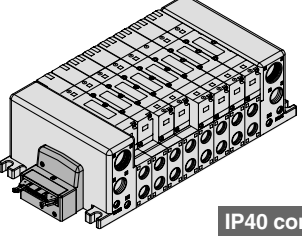
Nil: Non-locking push type (Slotted)



B: Locking type (Slotted)

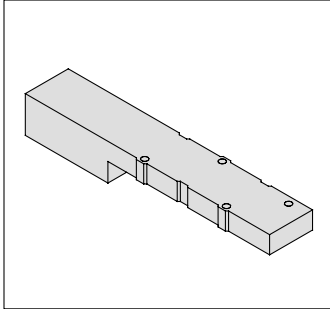


Kit Designation/Electrical Entry/Cable Length

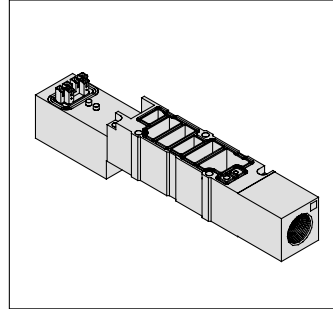
F Kit (D-sub connector kit)  IP40 compliant	M Kit (Multiple connector kit)  IP67 compliant	T Kit (Terminal block box kit)  IP67 compliant			
			FD0 D-sub connector kit (25P) without cable	MD0 Multiple connector kit (26P) without cable	TD0 Terminal block box kit 1 to 10 stations (16 stations)
			FD1 D-sub connector kit (25P) with 1.5 m cable	MD1 Multiple connector kit (26P) with 1.5 m cable	<small>Note</small>) P kit: when using the flat ribbon cable kit (20P), order cable assemblies separately.
			FD2 D-sub connector kit (25P) with 3.0 m cable	MD2 Multiple connector kit (26P) with 3.0 m cable	
FD3 D-sub connector kit (25P) with 5.0 m cable	MD3 Multiple connector kit (26P) with 5.0 m cable				
L Kit (Lead wire kit)  IP67 compliant	P Kit (Flat ribbon cable kit)  IP40 compliant				
		LD0 Lead wire kit 0.6 m lead wire	PD0 Flat ribbon cable kit (26P) without cable		
		LD1 Lead wire kit 1.5 m lead wire	PD1 Flat ribbon cable kit (26P) with 1.5 m cable		
		LD2 Lead wire kit 3.0 m lead wire	PD2 Flat ribbon cable kit (26P) with 3.0 m cable		
	LD3 Lead wire kit 5.0 m lead wire	PD3 Flat ribbon cable kit (26P) with 5.0 m cable			
	PDC Flat ribbon cable kit (20P) without cable <small>Note</small>)	PD4 Flat ribbon cable kit (20P) with 1.5 m cable			
		PD5 Flat ribbon cable kit (20P) with 3.0 m cable			
		PD6 Flat ribbon cable kit (20P) with 5.0 m cable			

Manifold Option

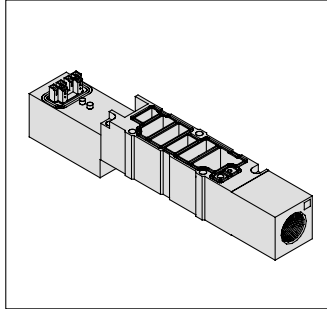
Blanking plate assembly
VVQ4000-10A-1



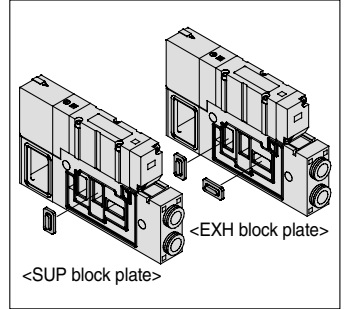
Individual SUP spacer
VVQ4000-P-1-02
03



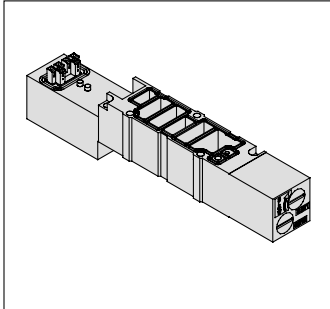
Individual EXH spacer
VVQ4000-R-1-02
03



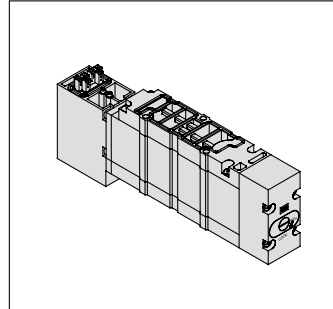
SUP/EXH block plate
VVQ4000-16A



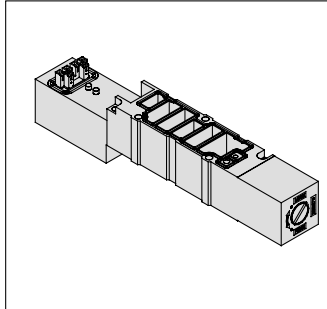
Throttle valve spacer
VVQ4000-20A-1



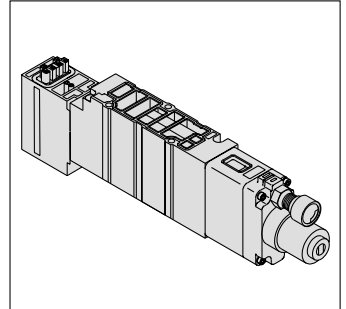
Residual pressure release valve
perfect spacer
VVQ4000-25A-1 (Note 1)



SUP stop valve spacer
VVQ4000-37A-1



Interface regulator
ARBQ4000-00-0-1



VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

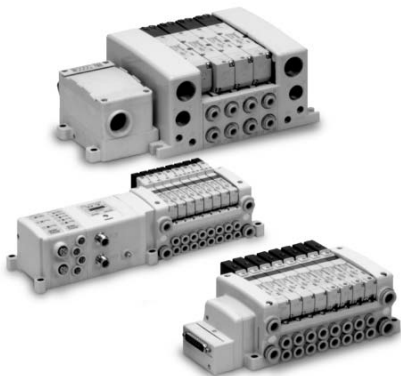


Note 1) Perfect spacers with residual pressure release valve cannot be combined with external pilot specifications.

Series VQC

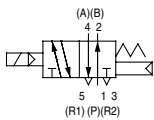
Base Mounted

Plug-in Unit

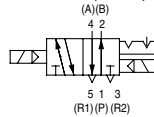


JIS Symbol

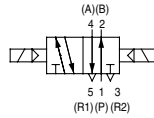
2 position single



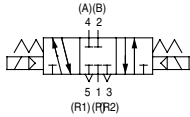
2 position double (metal)



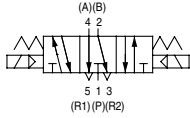
2 position double (rubber)



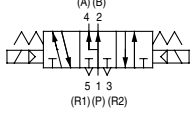
3 position closed center



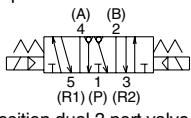
3 position exhaust center



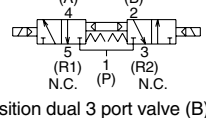
3 position pressure center



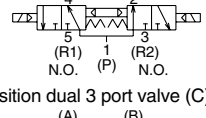
3 position exhaust center with pressure release valves



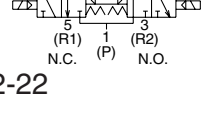
4 position dual 3 port valve (A)



4 position dual 3 port valve (B)



4 position dual 3 port valve (C)



Model

Series	No. of solenoids	Model	Flow characteristics						Response time (ms) ^{Note 2)}		Weight (g)			
			1 → 4, 2 (P → A, B)			4, 2 → 5, 3 (A, B → R1, R2)			Standard: 1 W	Low wattage				
			C[dm ³ /(s·bar)]	b	C _v	C[dm ³ /(s·bar)]	b	C _v						
VQC1000	2 position	Single	Metal seal	VQC1100	0.70	0.15	0.16	0.72	0.25	0.18	12 or less	15 or less	64	
			Rubber seal	VQC1101	0.85	0.20	0.21	1.0	0.30	0.25	15 or less	20 or less		
		Double	Metal seal	VQC1200	0.70	0.15	0.16	0.72	0.25	0.18	10 or less	13 or less		
			Rubber seal	VQC1201	0.85	0.20	0.21	1.0	0.30	0.25	15 or less	20 or less		
	3 position	Closed center	Metal seal	VQC1300	0.68	0.15	0.16	0.72	0.25	0.18	20 or less	26 or less		78
			Rubber seal	VQC1301	0.70	0.20	0.16	0.65	0.42	0.18	25 or less	33 or less		
		Exhaust center	Metal seal	VQC1400	0.68	0.15	0.16	0.72	0.25	0.18	20 or less	26 or less		
			Rubber seal	VQC1401	0.70	0.20	0.16	1.0	0.30	0.25	25 or less	33 or less		
		Pressure center	Metal seal	VQC1500	0.70	0.15	0.16	0.72	0.25	0.18	20 or less	26 or less		
			Rubber seal	VQC1501	0.85	0.20	0.21	0.65	0.42	0.18	25 or less	33 or less		
4 position	Dual 3 port valve	Rubber seal	VQC1 ^A _C 01	0.70	0.20	0.16	0.70	0.20	0.16	25 or less	33 or less			
VQC2000	2 position	Single	Metal seal	VQC2100	2.0	0.15	0.46	2.6	0.15	0.60	22 or less	29 or less	90	
			Rubber seal	VQC2101	2.2	0.28	0.55	3.2	0.30	0.80	24 or less	31 or less		
		Double	Metal seal	VQC2200	2.0	0.15	0.46	2.6	0.15	0.60	15 or less	20 or less		
			Rubber seal	VQC2201	2.2	0.28	0.55	3.2	0.30	0.80	20 or less	26 or less		
	3 position	Closed center	Metal seal	VQC2300	2.0	0.15	0.46	2.0	0.18	0.46	29 or less	38 or less		110
			Rubber seal	VQC2301	2.0	0.28	0.49	2.2	0.31	0.60	34 or less	44 or less		
		Exhaust center	Metal seal	VQC2400	2.0	0.15	0.46	2.6	0.15	0.60	29 or less	38 or less		
			Rubber seal	VQC2401	2.0	0.28	0.49	3.2	0.30	0.80	34 or less	44 or less		
		Pressure center	Metal seal	VQC2500	2.4	0.17	0.57	2.0	0.18	0.46	29 or less	38 or less		
			Rubber seal	VQC2501	3.2	0.28	0.80	2.2	0.31	0.60	34 or less	44 or less		
4 position	Dual 3 port valve	Rubber seal	VQC2 ^A _C 01	1.8	0.28	0.46	1.8	0.28	0.46	34 or less	44 or less			
VQC4000	2 position	Single	Metal seal	VQC4100	6.2	0.19	1.5	6.9	0.17	1.7	20 or less	22 or less	230	
			Rubber seal	VQC4101	7.2	0.43	2.1	7.3	0.38	2.0	25 or less	27 or less		
		Double	Metal seal	VQC4200	6.2	0.19	1.5	6.9	0.17	1.7	12 or less	12 or less		
			Rubber seal	VQC4201	7.2	0.43	2.1	7.3	0.38	2.0	15 or less	15 or less		
	3 position	Closed center	Metal seal	VQC4300	5.9	0.23	1.5	6.3	0.18	1.6	45 or less	47 or less	280	
			Rubber seal	VQC4301	7.0	0.34	1.9	6.4	0.42	1.9	50 or less	52 or less		
		Exhaust center	Metal seal	VQC4400	6.2	0.18	1.5	6.9	0.17	1.7	45 or less	47 or less		
			Rubber seal	VQC4401	7.0	0.38	1.9	7.3	0.38	2.0	50 or less	52 or less		
		Pressure center	Metal seal	VQC4500	6.2	0.18	1.9	6.4	0.18	1.6	45 or less	47 or less		
			Rubber seal	VQC4501	7.0	0.38	1.9	7.1	0.38	2.0	50 or less	52 or less		
Perfect	Metal seal	VQC4600	2.7	—	—	3.7	—	—	55 or less	57 or less	500			
	Rubber seal	VQC4601	2.8	—	—	3.9	—	—	62 or less	64 or less				



Note 1) Values represented in this column are in the following conditions:

- VQC1000: Cylinder port size C6 without a back pressure check valve
- VQC2000: Cylinder port size C8 without a back pressure check valve
- VQC4000: Cylinder port size Rc 3/8

Note 2) Values represented in this column are based on JIS B 8375-1981 (operating with clean air and a supply pressure of 0.5 MPa. Equipped with light/surge voltage suppressor. Values vary depending on the pressure as well as the air quality.) Values for double types are when the switch is ON.

Standard Specifications

Valve Configuration		Metal seal		Rubber seal		
		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

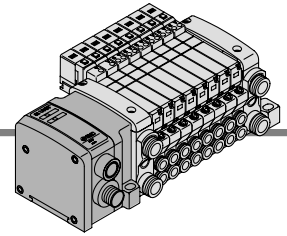
Series	Base model	Connection type	Piping specifications		Applicable stations ^{Note 2)}	Applicable solenoid valves	5 station weight (g)
			Port direction	Port size ^{Note 1)}			
VQC1000	VV5QC11-□□□	<ul style="list-style-type: none"> ■ F Kit: D-sub connector ■ P Kit: Flat cable ■ T Kit: Terminal block 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

S VQC1000/2000/4000 Kit (Serial transmission kit) Decentralized Serial Wiring



Gateway type serial transmission system

• Since wiring is "prepackaged" into one multi-connector type cable, wiring work is not only made easier, but much more accurate.

S kit can be used by connecting to gateway unit.

Gateway (GW) Unit IP65 compliant



How to Order

EX500 — G DN1

Communication protocol

DN1	DeviceNet	AB1-X1	Remote I/O (RIO)
PR1A	PROFIBUS-DP	MJ1	CC-LINK

Specifications

Model	EX500-GAB1-X1	EX500-GDN1	EX500-GPR1A	EX500-GMJ1
Applicable PLC/Communication protocol	Rockwell Automation PLC	DeviceNet Release 2.0	PROFIBUS-DP (EN50170)	CC-LINK Ver. 1.10
Communication speed	57.6/115.2/230.4 kbit/sec	125/250/500 kbit/sec	9.6/19.2/45.45/93.75/187.5/500 kbit/sec 1.5/3/6/12 Mbit/sec	156/625 kbit/sec 2.5/5/10 Mbit/sec
Rated voltage	24 VDC			
Power supply voltage range	Input and control unit power supply: 24 VDC ± 10% Solenoid valve power supply: 24 VDC + 10%/–5% (with power drop warning at approx. 20 V)			
	—	Communication power supply for DeviceNet 11 to 25 VDC	—	—
Current consumption	200 mA or less (Single GW unit)			
	—	Communication power supply for DeviceNet 50 mA or less	—	—
Number of inputs/outputs	Maximum 64 inputs/64 outputs			
Number of input/output branches	4 branches (16 inputs/16 outputs per branch)			
Branch cable	8 core heavy duty cable			
Branch cable length	5 m or less (total extension 10 m or less)			
Communication connector	M12 connector (8 pins, socket)			
Power connector	M12 connector (5 pins, plug)			
Ambient operating temperature/humidity	+5 to +45°C at 35% to 85% RH (No condensation)			
Enclosure	IP65			
Applicable standard	UL, CSA, CE			
Weight (g)	470			

Input Block IP67 compliant

How to Order Input Manifold

EEX500 — IB1 — E 8

Input unit specifications

Connector type

E	M8 connector
T	M12 connector
M	M8 and M12 mixed

Stations

1	1 station
...	...
8	8 stations

Applicable GW unit

Nil	DeviceNet
	PROFIBUS-DP
-X1	Remote I/O (RIO)



Note) When ordering an input block manifold, enter the [Input manifold part no.] + [Input block part no.] together. The input block, end block and DIN rail are included in the input manifold.

How to Order Input Block

EX500 — IE 1

Block type

1	M8 connector, PNP specifications
2	M8 connector, NPN specifications
3	M12 connector, PNP specifications
4	M12 connector, NPN specifications
5	8-point integrated type, M8 connector, PNP specifications
6	8-point integrated type, M8 connector, NPN specifications

Applicable GW unit

Nil	DeviceNet
	PROFIBUS-DP
-X1	Remote I/O (RIO)

* With waterproof cap

Input Unit Specifications

Connection block	Current source type input block (PNP input block) or Current sink type input block (NPN input block)
Communication connector	M12 connector (8 pins, plug)
Number of connection blocks	Maximum 8 blocks
Block supply voltage	24 VDC
Block supply current	0.65 A maximum
Current consumption	100 mA or less (at rated voltage)
Short circuit protection	Operates at 1A Typ. (power supply cut) GW unit reset by turning power OFF and back ON.
Enclosure	IP65
Weight (g) <small>Note)</small>	100 (Input unit + end block)

Note) Not including the DIN rail weight.

Input Block Specifications

Applicable sensor	Current source type (PNP output) or Current sink type (NPN output)
Sensor connector	M8 connector (3 pins) or, M12 connector (4 pins)
Number of inputs	2 inputs/8 inputs (M8 only)
Rated voltage	24 VDC
Indication	Green LED
Insulation	None
Sensor supply current	Maximum 30 mA/Sensor
Enclosure	IP65
Weight (g)	[For M8: 20] [For M12: 40] [8 point integrated type, for M8: 55]



SI Unit

How to Order

EX500 – Q001

• Applicable GW unit

Nil	DeviceNet PROFIBUS-DP
-X1	Remote I/O (RIO)

VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

Specifications

Connection block	Solenoid valve (single, double) Relay output module (1 output, 2 outputs)
Communication connector	M12 connector (8 pins, plug, socket)
Number of connection block stations	Double solenoid valve Relay output module (2 points): Maximum 8 stations Single solenoid valve Relay output module (1 point): Maximum 16 stations
Block supply voltage	24 VDC
Block supply current	0.65 A maximum
Current consumption	100 mA or less (at rated voltage)
Weight (g)	115

Cable

How to Order Cable with M12 Connector

EX500 – AC 030 – SSPS



Cable length

003	0.3 m
005	0.5 m
010	1 m
030	3 m
050	5 m

Connector specifications

SSPS	Socket side: Straight Plug side: Straight
SAPA	Socket side: Angle Plug side: Angle

How to Order Power Cable with Connector

EX500 – AP 050 – S

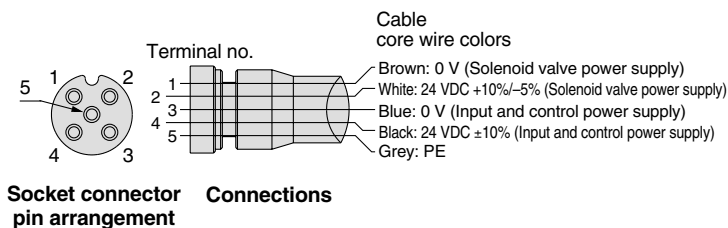
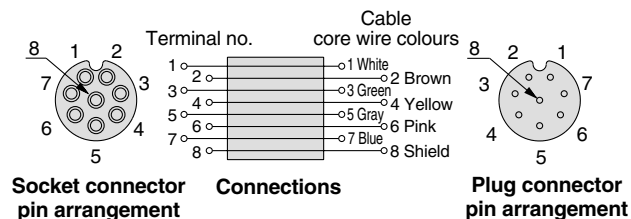


Cable length

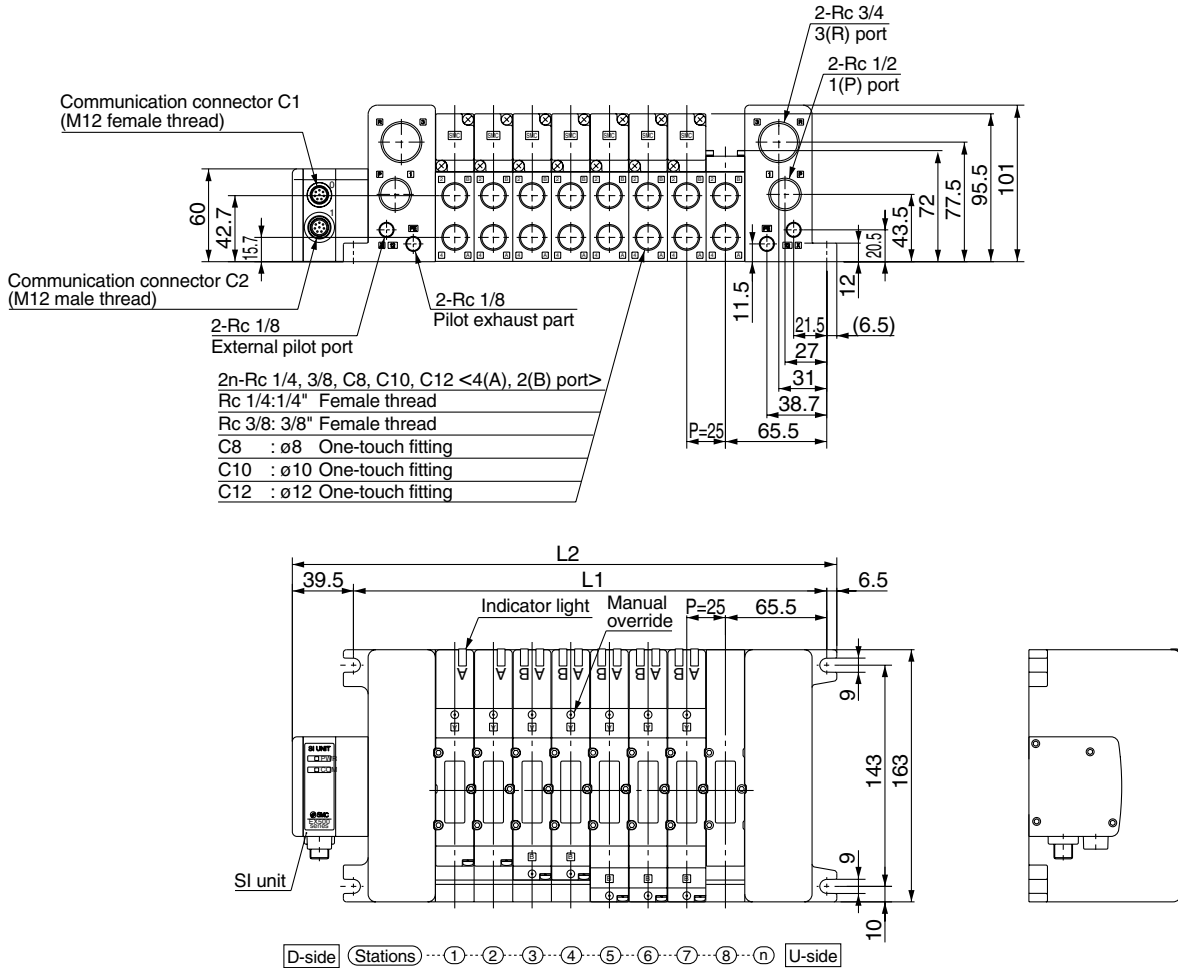
010	1 m
050	5 m

Connector specifications

S	Straight
A	Angle



VV5QC41
SA1 Kit (Serial transmission kit: EX500)



Formulas
L1 = 25n + 106 (Maximum 16 single wiring stations) n: Stations

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	131	156	181	206	231	256	281	306	331	356	381	406	431	456	481	506
L2	177	202	227	252	277	302	327	352	377	402	427	452	477	502	527	552