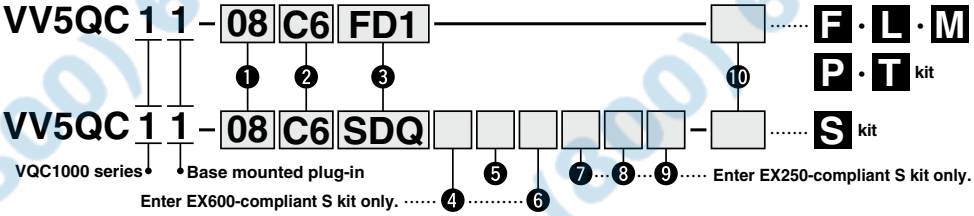
Base Mounted
Plug-in Unit
VQC1000 Series

How to Order Manifold



1 Valve stations

01	1 station
⋮	⋮

The maximum number of stations differs depending on the electrical entry. (Refer to 3 Kit type/Electrical entry/Cable length.)

Note) In case of compatibility with the S kit/AS-Interface, the maximum number of solenoids is as shown below, so please be careful of the number of stations.
- 8 in/8 out: Maximum 8 solenoids
- 4 in/4 out: Maximum 4 solenoids

2 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 (Including upward, downward piping and mixed)
MM Note 2)	Mixed size for different types of piping, option installed

Note 1) Indicate the size by means of the manifold specification sheet in case of "CM", "LM", "NM".

Note 2) When selecting the mixed size for different types of piping or dual flow fitting assembly, enter "MM" and give instructions in the manifold specification sheet.

Note 3) Symbols for inch sizes are as follows:
- N1: ø1/8" • N3: ø5/32"
- N7: ø1/4" • NM: Mixed

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

4 End plate type
(Enter EX600-compliant S kit only.)

Nil	Without end plate
2	M12 connector power supply (Max. supply current 2A)
3	7/8 inch connector power supply (Max. supply current 8A)

Note) Without SI unit, the symbol is nil.

6 I/O unit stations
(Enter EX600-compliant S kit only.)

Nil	None
1	1 station
⋮	⋮
9	9 stations

Note 1) Without SI unit, the symbol is nil.
Note 2) SI unit is not included in I/O unit stations.
Note 3) When I/O unit is selected, it is shipped separately, and assembled by customer. Refer to the attached operation manual for mounting method.

7 Number of input blocks
(Enter EX250-compliant S kit only.)

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

Note) For the S kit compatible with AS-Interface, the maximum number of stations is limited. Refer to page 805 in Best Pneumatics No. 1-1 for details.

8 Input block type
(Enter EX250-compliant S kit only.)

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

9 Input block specification
(Enter EX250-compliant S kit only.)

Nil	PNP sensor input or without input block
N	NPN sensor input

10 Option

Nil	None
B Note 2)	All stations with back pressure check valve
D	With DIN rail (Rail length: Standard) Note 7)
D□ Note 3)	With DIN rail (Rail length: Special) Note 7)
K Note 4)	Special wiring spec. (Except double wiring)
N Note 10)	With name plate
R Note 5)	External pilot
S Note 6)	Direct EXH outlet with built-in silencer

Note 1) When two or more symbols are specified, indicate them alphabetically. Example: -BRS

Note 2) When a back pressure check valve is desired, and is to be installed only in certain manifold stations, specify the mounting position by means of the manifold specification sheet.

Note 3) 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 4) When single wiring and double wiring are mixed, specify wiring type of each station by means of the manifold specification sheet.

Note 5) For external pilot option, "-R", indicate the external pilot specification "R" for the applicable valves as well.

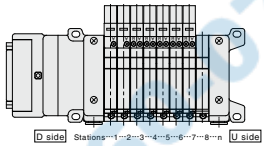
Note 6) Built-in silencer type does not satisfy IP67.

Note 7) When "Without SI unit (SD0, SD60)" is specified, "With DIN rail (D)" cannot be selected.

Note 8) When changing the specifications of the EX600 from no DIN rail to DIN rail mounting, please consult SMC.

Note 9) DIN rail is not attached (but shipped together) on the manifold in case of the EX600 with DIN rail. Refer to back page 597 for mounting method.

Note 10) When mounting the blanking plate with connector and the slide locking manual type valve by ordering only the manifold, order the name plate separately. For details, refer to page 589.



∗ Stations are counted from station 1 on the D-side.

5 SI unit output polarity

SI unit output polarity		EX250 integrated-type (I/O) serial transmission system					
		DeviceNet™	PROFIBUS DP	CC-Link	AS-Interface	CANopen	EtherNet/IP™
Nil	Positive common	—	—	○	—	—	—
N	Negative common	○	○	—	○	○	○

SI unit output polarity		EX500 Gateway Decentralized System 2 (128 points)	EX500 Gateway Decentralized System (64 points)			EX260 integrated-type (for output) serial transmission system						EX126 integrated-type (for output) serial transmission system
		EtherNet/IP™	DeviceNet™	PROFIBUS DP	EtherNet/IP™	DeviceNet™	PROFIBUS DP	CC-Link	EtherCAT	PROFINET	EtherNet/IP™	CC-Link
Nil	Positive common	—	○	○	○	○	○	○	○	○	○	○
N	Negative common	○	○	○	○	○	○	○	○	○	○	—

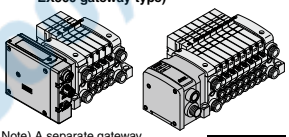
SI unit output polarity		EX600 integrated-type (I/O) serial transmission system (Fieldbus system)					
		DeviceNet™	PROFIBUS DP	CC-Link	EtherNet/IP™	EtherCAT	PROFINET
Nil	Positive common	○	○	○	○	○	○
N	Negative common	○	○	○	○	○	○

∗ Select "Nil" for without SI unit (SD0□).

❸ Kit type/Electrical entry/Cable length

∗ Numbers in parentheses represent the maximum number of solenoids in case of mixed single and double wiring. The maximum number of stations is determined by the total number of solenoids. When ordering mixed wiring, please add the option symbol "-K".

S kit (Serial transmission: EX500 gateway-type)



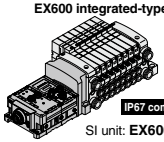
Note) A separate gateway unit and communication cable are required.

IP67 compliant

SI unit: **EX500**

SD0	Without SI unit	—	—
SDA3	EX500 Gateway Decentralized System 2 (128 points) EtherNet/IP™	32 outputs Note 1)	1 to 12 stations (24)
SDA2	EX500 Gateway Decentralized System (64 points) DeviceNet™,PROFIBUS DP, EtherNet/IP™	16 outputs	1 to 8 stations (16)

S kit (Serial transmission (Fieldbus system): EX600 integrated-type (I/O))

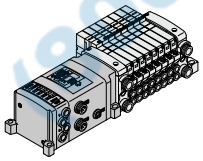


IP67 compliant

SI unit: **EX600**

SD60	Without SI unit	1 to 12 stations (24)
SD6Q	DeviceNet™	
SD6N	PROFIBUS DP	
SD6V	CC-Link	
SD6F	PROFINET	
SD6ZE	EtherNet/IP™ (1 port)	
SD6EA	EtherNet/IP™ (2 port)	
SD6D	EtherCAT	

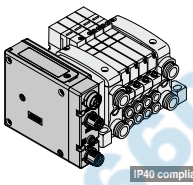
S kit (Serial transmission: EX250 integrated-type (I/O))



SI unit: **EX250** IP67 compliant

SD0	Without SI unit	1 to 12 stations (24)
SDQ	DeviceNet™	
SDN	PROFIBUS DP	
SDV	CC-Link	
SDTA	AS-Interface, 8 in/8 out, 31 slave modes, 2 power supply systems	1 to 4 stations (8)
SDTB	AS-Interface, 4 in/4 out, 31 slave modes, 2 power supply systems	1 to 2 stations (4)
SDTC Note 2)	AS-Interface, 8 in/8 out, 31 slave modes, 1 power supply systems	1 to 4 stations (8)
SDTD Note 2)	AS-Interface, 4 in/4 out, 31 slave modes, 1 power supply systems	1 to 2 stations (4)
SDY	CANopen	1 to 12 stations (24)
SDZEN	EtherNet/IP™	

S kit (Serial transmission: EX260 integrated-type (for output))

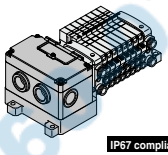


IP40 compliant

SI unit: **EX260** IP67 compliant

Symbol	Protocol	Number of outputs	Communication connector	Stations
SD0	Without SI unit			
SQA	DeviceNet™	32	M12	2 to 12 stations (24)
SQB		16		2 to 8 stations (16)
SNA	PROFIBUS DP	32	M12	2 to 12 stations (24)
SNB		16		2 to 8 stations (16)
SNC		32	D-sub Note 4)	2 to 12 stations (24)
SND		16		2 to 8 stations (16)
SVA	CC-Link	32	M12	2 to 12 stations (24)
SVB		16		2 to 8 stations (16)
SDA	EtherCAT	32	M12	2 to 12 stations (24)
SDB		16		2 to 8 stations (16)
SFA	PROFINET	32	M12	2 to 12 stations (24)
SFB		16		2 to 8 stations (16)
SEA	EtherNet/IP™	32	M12	2 to 12 stations (24)
SEB		16		2 to 8 stations (16)

S kit (Serial transmission: EX126 integrated-type (for output))

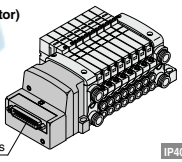


IP67 compliant

SI unit: **EX126**

SDVB	CC-Link	1 to 8 stations (16)

F kit (D-sub connector)



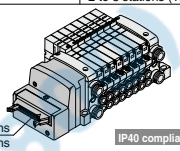
25 pins

IP40 compliant

FD0	D-sub connector (25P) without cable	1 to 12 stations (24)
FD1	D-sub connector (25P) with 1.5 m cable	
FD2	D-sub connector (25P) with 3.0 m cable	
FD3	D-sub connector (25P) with 5.0 m cable	

P kit (Flat ribbon cable)

Note) For a 20P flat ribbon cable, the cable assembly must be ordered separately.

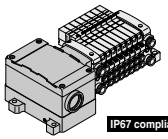


26 pins
20 pins

IP40 compliant

PD0	Flat ribbon cable (26P) without cable	1 to 12 stations (24)
PD1	Flat ribbon cable (26P) with 1.5 m cable	
PD2	Flat ribbon cable (26P) with 3.0 m cable	
PD3	Flat ribbon cable (26P) with 5.0 m cable	
PDC	Flat ribbon cable (20P) without cable	1 to 9 stations (18)

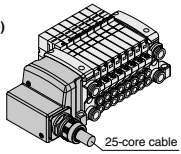
T kit (Terminal block box)



IP67 compliant

TD0	Terminal block box	1 to 10 stations (20)

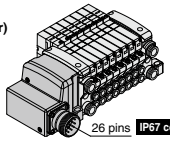
L kit (Lead wire)



25-core cable IP67 compliant

LD0	Lead wire (25 cores) 0.6 m lead wire	1 to 12 stations (24)
LD1	Lead wire (25 cores) 1.5 m lead wire	
LD2	Lead wire (25 cores) 3.0 m lead wire	

M kit (Circular connector)



26 pins IP67 compliant

MD0	Circular connector (26P) without cable	1 to 12 stations (24)
MD1	Circular connector (26P) with 1.5 m cable	
MD2	Circular connector (26P) with 3.0 m cable	
MD3	Circular connector (26P) with 5.0 m cable	

∗ The maximum number of stations displayed in parentheses is applied to the special wiring specifications. (Option "-K")

Note 1) When using the SI unit with 32 outputs, use the GW unit compatible with the EX500 Gateway Decentralized System 2 (128 points).

Note 2) When selecting SI units with SDTC or SDTD specifications, there are limits to the supply current from the SI unit to the input block or valve. Refer to page 805 in Best Pneumatics No. 1-1 for details.

Note 3) When selecting SI units with SDZCN specifications only, IP40 is compatible. (All other SI units are IP67 compliant.)

Note 4) For the SI unit part no., refer to page 546