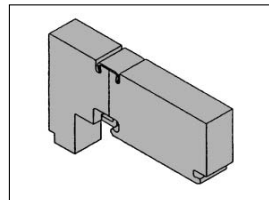
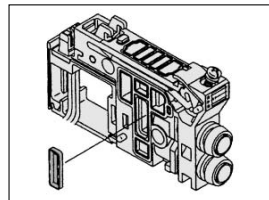
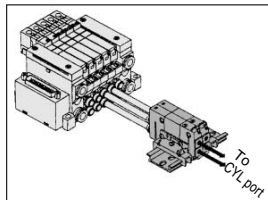
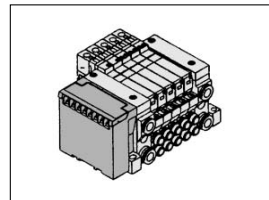
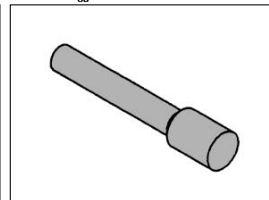
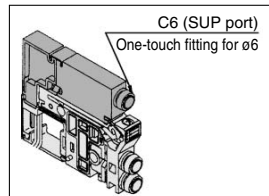
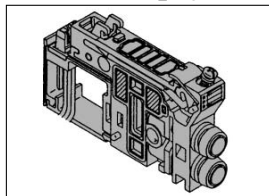
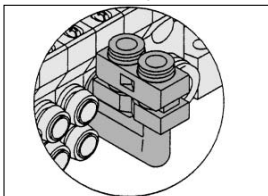
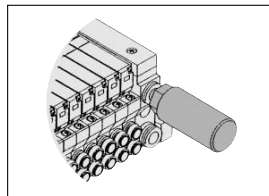
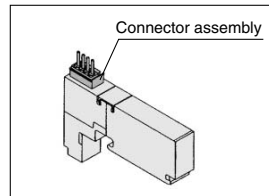
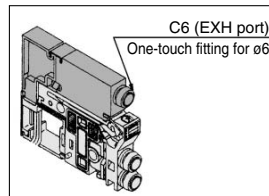
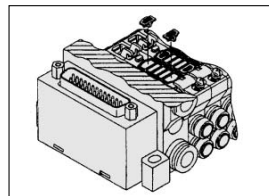
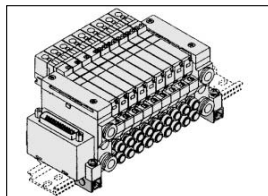
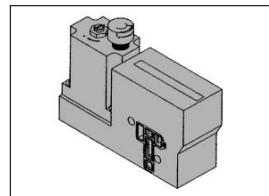
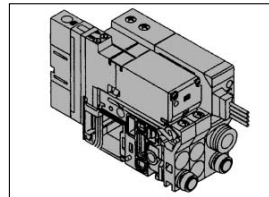
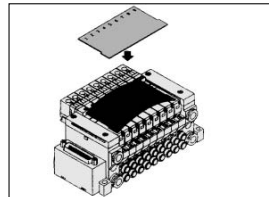
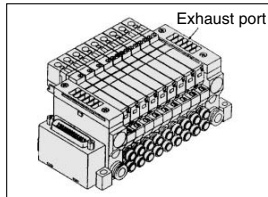
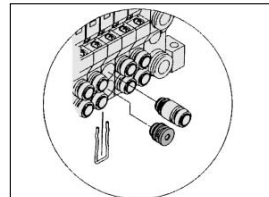


Manifold Option

P. 2-4-208

Blanking plate assembly
VVQ1000-10A-1SUP block plate
VVQ1000-16ADouble check block
VQ1000-FPG-□□2 stations matching fitting assembly
VVQ1000-52A-C8Blanking plug
KQ2P-□□□□Individual SUP spacer
VVQ1000-P-1-C6EXH block base assembly
VVQ1000-19A-□□-□□Elbow fitting assembly
VVQ1000-F-L-□□□□Silencer (For EXH port)
AN200-KM8/AN203-KM8Blanking plate with connector
VVQ1000-1C□-□Individual EXH spacer
VVQ1000-R-1-C6Back pressure check valve assembly [-B]
VVQ1000-18ADIN rail mounting bracket [-D]
VVQ1000-57ARegulator unit
VVQ1000-AR-1

- For cylinder port fittings part no., refer to page 2-4-175.
- For replacement parts, refer to page 2-4-227.

With vacuum ejector unit
[-J□]Name plate [-N]
VVQ1000-^N_{NC}-Station (1 to Max. stations)Built-in silencer,
direct exhaust [-S]Port plug
VVQ0000-58A

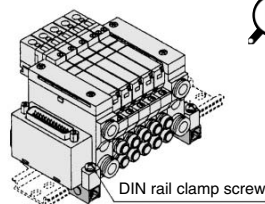
Manifold Option Parts for VQ1000

DIN rail mounting bracket

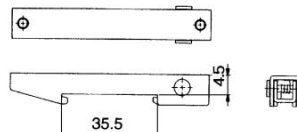
VVQ1000-57A

It is used for mounting a manifold on a DIN rail. The DIN rail mounted bracket is fixed to the manifold end plate. (The specification is the same as that for the option "-D".)

1 set of DIN rail mounting bracket is used for 1 manifold (2 DIN rail mounting brackets).



* When ordering assemblies incorporated with a manifold, add suffix "D" to the manifold no.



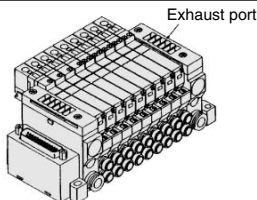
Mounting screws are attached

Built-in silencer, Direct exhaust [-S]

This is a type with an exhaust port at the top of the manifold end plate. The built-in silencer exhibits an excellent noise suppression effect. (Silencing effect: 30 dB)



Note) A large quantity of drainage generated in the air source results in exhaust of air together with drainage. For maintenance, refer to page 2-4-176.



* When ordering assemblies incorporated with a manifold, add suffix "S" to the manifold no.

2 stations matching fitting assembly

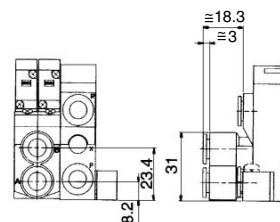
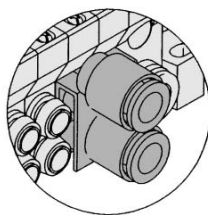
VVQ1000-52A-C8

For driving a cylinder with a large bore, valves for two stations are operated to double the flow rate. This assembly for the cylinder port is used in that case. The assembly is equipped with One-touch fittings for a $\phi 8$ bore.

* The bore for the manifold no. is "CM".

Clearly indicate the 2 station matching fitting assembly no., and specify the number of stations and positions by means of the manifold specifications.

* In 2 station matching fitting assembly, a special clip which is combined in one-piece of 2 stations is attached as a holding clip.

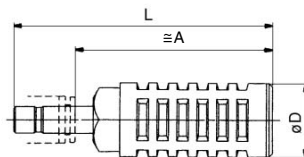


Silencer (For EXH port)

This silencer is to be inserted into the EXH port (One-touch fittings) of the common exhaust type

* When mounting elbow fittings assembly (VVQ1000-F-□) on the edge of manifold station, select a silencer, AN203-KM8.

Silencer (AN200-KM8) is interfered with fittings.



Dimensions

Series	Applicable fittings size ϕ d	Model	A	L	D	Effective area (mm ²)	Noise reduction (dB)
VQ1000	8	AN200-KM8	59	78	22	20	30
		AN203-KM8	32	51	16	14	25 *

Regulator unit

VVQ1000-AR-1

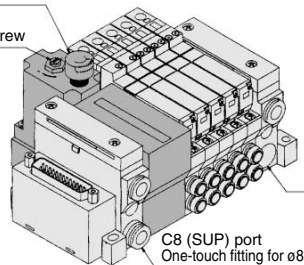
The regulator controls the SUP air pressure in a manifold. Supply air from D side SUP port is regulated. SUP port on U side is plugged.

Specifications

Maximum operating pressure	0.8 MPa
Set pressure range	0.05 to 0.7 MPa
Ambient and fluid temp.	5 to 50°C
Fluid	Air
Cracking pressure	0.02 MPa
Structure	Relieving type

Pressure gauge
G27-10-01

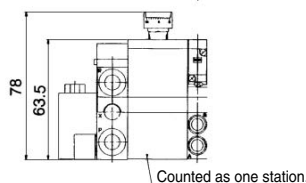
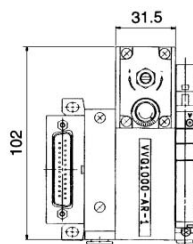
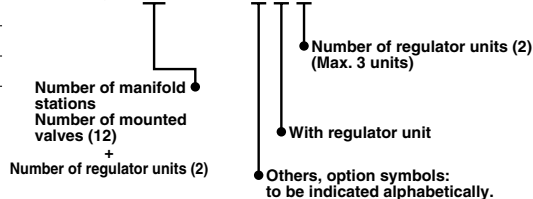
Pressure control screw



• How to Order

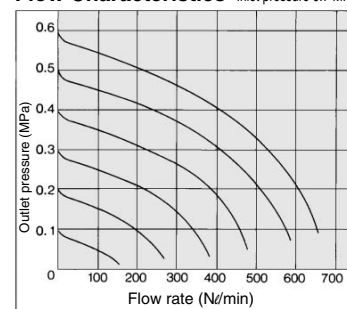
Indicate an option symbol "-G-*" for the manifold no. and be sure to specify the mounting position and number of stations by means of the manifold specification form. One unit is counted as one station and occupies a space for three stations, therefore, pay attention to the manifold size.

The regulator valve unit, to which no wire is connected, valves can be mounted up to the standard max. number of stations of each kit.

How to order manifold
VV5Q11-14C6FUO-DG2

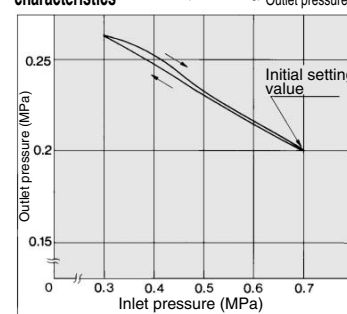
Flow Characteristics

Conditions:
Inlet pressure 0.7 MPa



Pressure characteristics

Conditions (Initial setting)
Inlet pressure 0.7 MPa
Outlet pressure 0.2 MPa



⚠ Caution

• Pressure setting

Check the supply pressure and then turn the pressure control screw to set the secondary pressure. Turning the screw clockwise will increase the secondary pressure while turning it counterclockwise decrease the pressure. (Set the pressure by turning the screw in the increase direction.)

• Installation

Since some level of the actuator's operational frequency may lead to a sharp pressure change, pay attention to the pressure gauge durability.

How to Order Valves

VQ 1 1 1 0 Y 5 LO

Series: VQ0000

Type of actuation:

- 1: 2 position single (A/B) (R1)(P)(H2)
- 2: 2 position double (A/B) (H1)(P)(H2)
- 3: 3 position closed center (A/B) (R1)(P)(R2)
- 4: 3 position pressure center (A/B) (R1)(P)(R2)

Body type:

- 1: VQ1000

Seal:

- 0: Metal seal
- 1: Rubber seal

Manual override:

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

Electrical entry:

- L: L plug connector With lead wire
- LO: L plug connector Without connector

Note) LO type valve is used for F, P, T, and S kits. The plug connector and lead wire are attached to the manifold.

Function:

Symbol	Specifications	DC
Nil	Standard type	(1.0 W)
H	High pressure type	(1.5 W)
Y	Low wattage type	(0.5 W)

Coil voltage:

5	24 VDC
6	12 VDC

How to Order Valve Manifold Assembly

Example

Single solenoid (24 VDC) VQ1110-5LO

Double solenoid (24 VDC) VQ1210-5LO

3m

D-sub connector cable VVZS3000-21A-2

F kit (D-sub connector)

Cylinder ports C6: With One-touch fitting for ø6

Manifold base (9 stations) VV5Q12-08C6FU2-D

VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

VV5Q12-08C6FU2-D ... 1 set (F kit 8 station manifold base no.)

*VQ1110-5LO ... 4 sets (Single solenoid part no.)

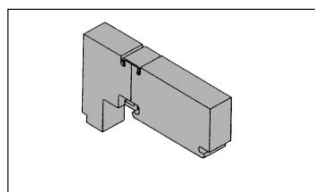
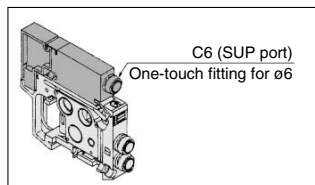
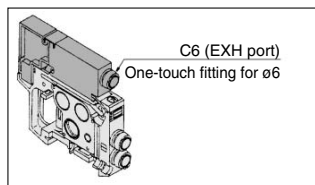
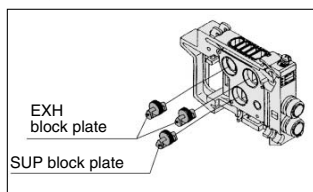
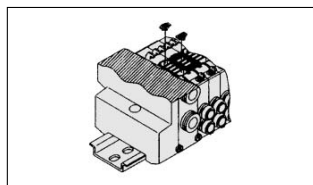
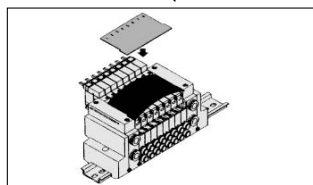
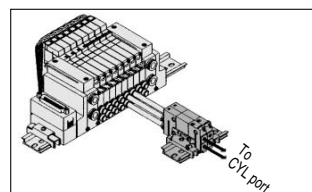
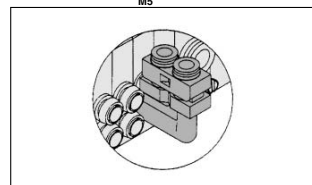
*VQ1210-5LO ... 4 sets (Double solenoid part no.)

The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

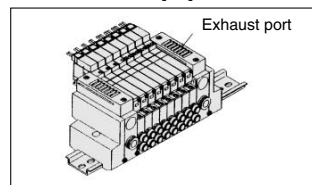
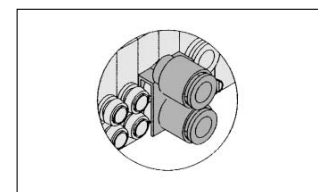
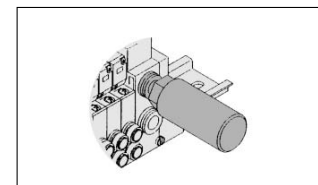
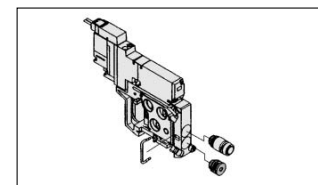
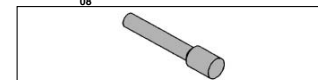
Specify the part numbers for valves and options together beneath the manifold base part number. Besides, when the arrangement will be complicated, specify them by means of the manifold specification sheet.

Manifold Option

P. 2-4-208

Blanking plate assembly
VVQ1000-10A-1Individual SUP spacer
VVQ1000-P-1-C6Individual EXH spacer
VVQ1000-R-1-C6SUP/EXH block plate
VVQ1000-16A-2Back pressure check valve assembly [-B]
VVQ1000-18AName plate [-N*]
VVQ1000-N2-Station (1 to Max. stations)Double check block
VVQ1000-FPG-□□Elbow fitting assembly
VVQ1000-F-L

Built-in silencer, direct exhaust [-S]

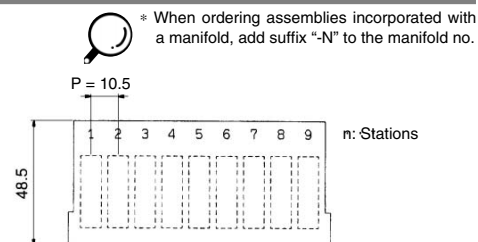
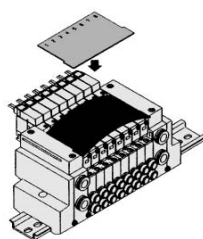
2 stations matching fitting assembly
VVQ1000-52A-C8Silencer
AN200-KM8Port plug
VVQ0000-58ABlanking plug
KQ2P-23
04
06
08

- For cylinder port fittings part no., refer to page 2-4-213.
- For replacement parts, refer to page 2-4-231.

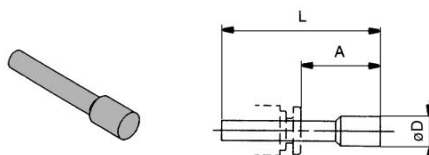
Name plate [-N*]**VVQ1000-N2-Station (1 to Max. stations)**

It is a transparent resin plate for placing a label that indicates solenoid valve function, etc.

Insert it into the groove on the side of the end plate and bend it as shown in the figure.

**Blanking plug (For One-touch fittings)****KQ2P-**
23
04
06
08

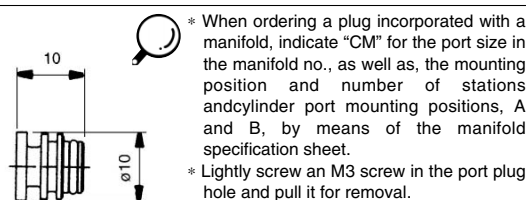
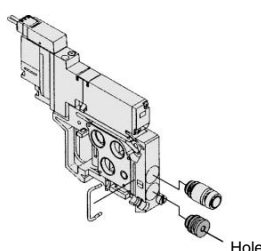
It is inserted into an unused cylinder port and SUP/EXH ports. Purchasing order is available in units of 10 pieces.

**Dimensions**

Applicable fitting size øD	Model	A	L	D
3.2	KQ2P-23	16	31.5	3.2
4	KQP-04	16	32	6
6	KQP-06	18	35	8
8	KQP-08	20.5	39	10

Port plug VVQ0000-58A

The plug is used to block the cylinder port when using a 4 port valve as a 3 port valve.

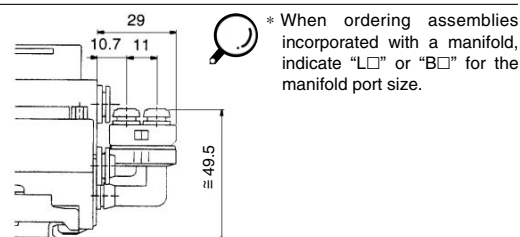
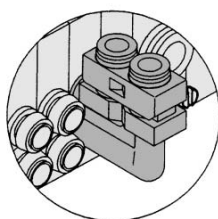
**Elbow fittings assembly****VVQ1000-F-L**
CC3
CC4
MS

It is used for piping that extends upward or downward from the manifold.

When not mounting it to all manifold stations, clearly write the elbow type fitting assembly no. and specify the station's qty and position by manifold specifications.

* When mounting elbow fittings assembly on the edge of manifold station and a silencer on EXH port, select a silencer, AN203-KM8.

Silencer (AN200-KM8) is interfered with fittings.

**Built-in silencer, Direct exhaust [-S]**

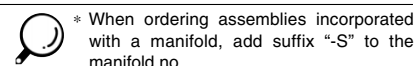
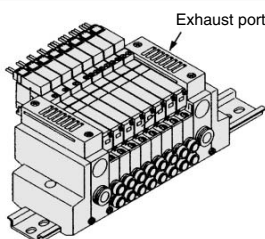
This is an exhaust port on the manifold end plate.

The built-in silencer exhibits an excellent noise suppression effect. (Silencing effect: 30 dB)

(Note) A large quantity of drainage generated in the air source results in exhaust of air together with drainage.



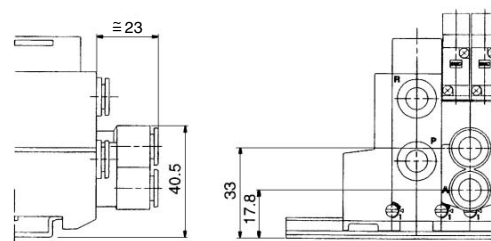
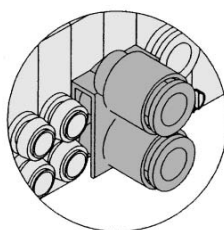
• For maintenance, refer to page 2-4-214.

**2 stations matching fitting assembly****VVQ1000-52A-C8**

For driving a cylinder with a large bore, valves for two stations are operated to double the flow rate. This assembly for the cylinder port is used in that case. The assembly is equipped with One-touch fittings for a ø8 bore.

* The bore for the manifold no. is "CM".

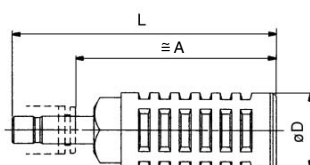
Clearly indicate the 2 station matching fitting assembly no., and specify the number of stations and positions on the manifold specification sheet.

**Silencer (For EXH port)**

This is inserted into the centralized type EXH port (One-touch fitting).

* When mounting elbow fittings assembly (VVQ1000-F-L□) on the edge of manifold station, select a silencer, AN203-KM8.

Silencer (AN200-KM8) is interfered with fittings.

**Dimensions**

Series	Applicable fitting size øD	Model	A	L	D	Effective area (mm ²)	Noise reduction (dB)
VQ1000	8	AN200-KM8	59	78	22	20	30
		AN203-KM8	32	51	16	14	25*