

Body Ported

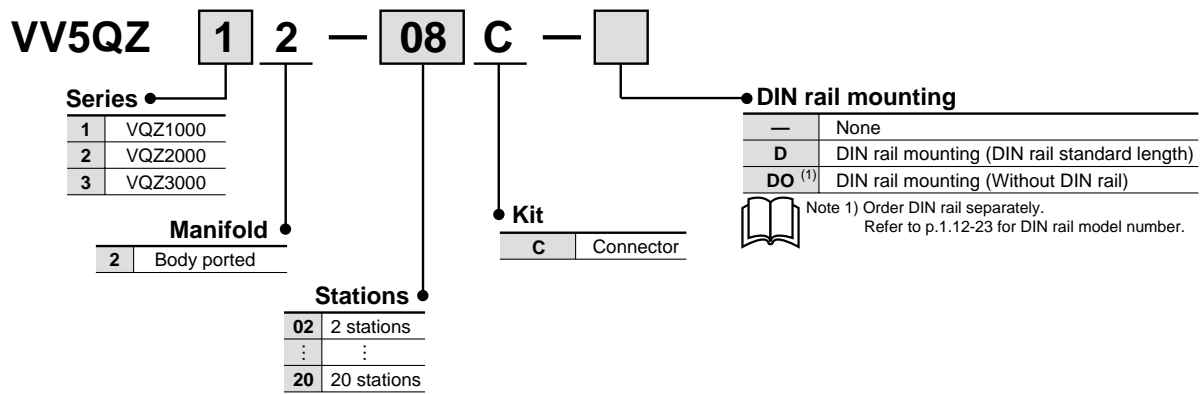
Plug Lead Unit

## 5 Port Solenoid Valve

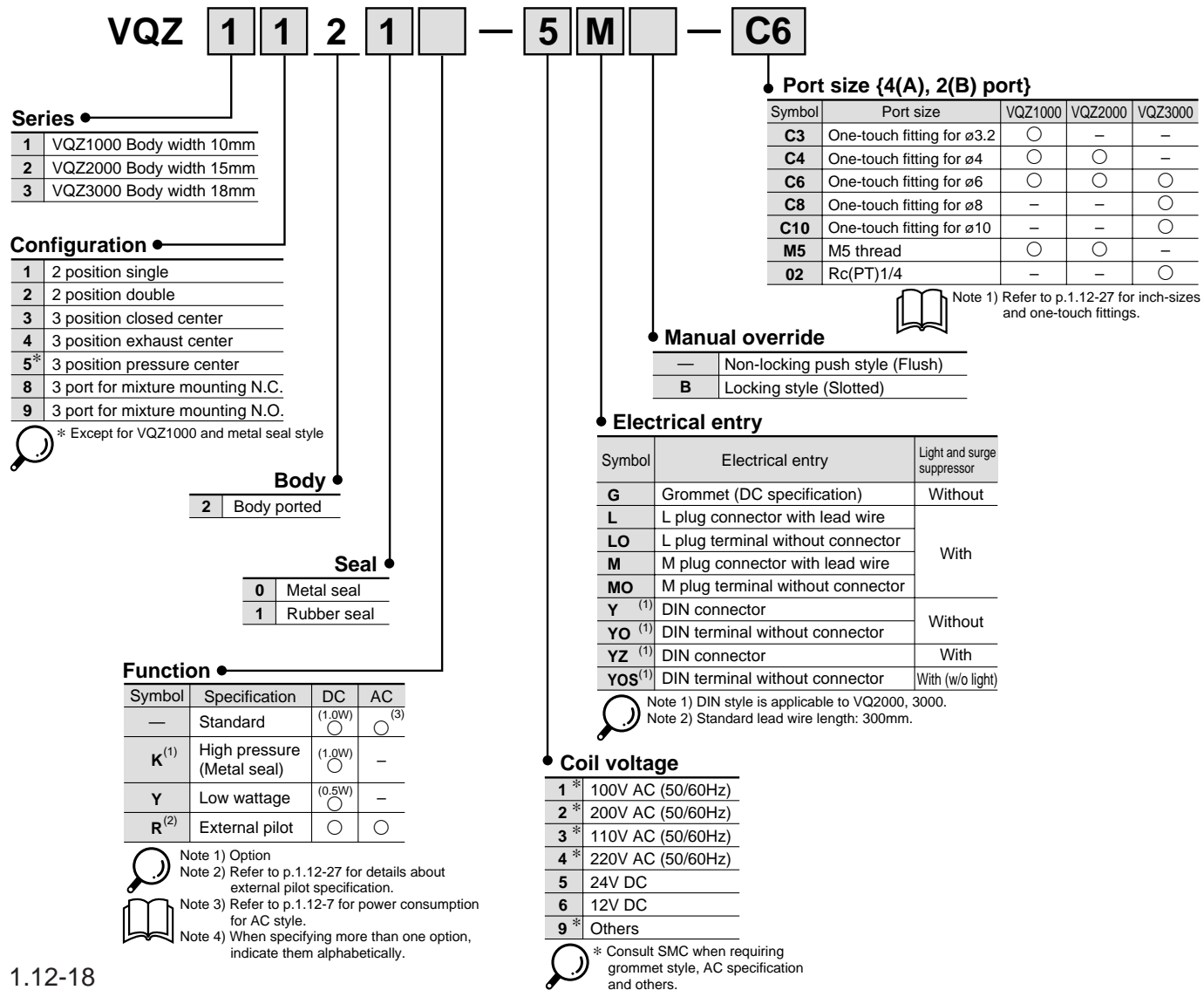
# VQZ1000/2000/3000

## Manifold Connector Kit

### How to Order Manifold

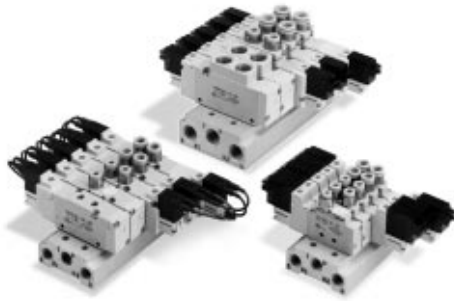


### How to Order Valve



# VQZ1000/2000/3000 Body Ported

## Manifold Specifications



Series	Base model	Piping specification		Applicable valve	Applicable stations	Manifold base weight (g)
		Piping	Port size			
			1(P), 3/5(R)	4(A), 2(B)		
VQZ1000	VV5QZ12-□□□	Top	Rc(PT) 1/8	C3(ø3.2) C4(ø4) C6(ø6) M5(M5 thread)	VQZ1□20 VQZ1□21	2 to 20 stations 2 stations: 64 addition per 1 station: 18
VQZ2000	VV5QZ22-□□□	Top	Rc(PT) 1/8	C4(ø4) C6(ø6) M5(M5 thread)	VQZ2□20 VQZ2□21	2 to 20 stations 2 stations: 86 addition per 1 station: 26
VQZ3000	VV5QZ32-□□□	Top	Rc(PT) 1/4	C6(ø6) C8(ø8) C10(ø10) Rc(PT) 1/4	VQZ3□20 VQZ3□21	2 to 20 stations 2 stations: 181 addition per 1 station: 53

- SY
- SYJ
- SX
- VK
- VZ
- VF
- VFR
- VP7
- VP4

## How to Order Manifold Assembly (Example)

**VV5QZ22-05C** ..... 1 set (C kit 5 stations manifold base)

\* VVQZ2000-10A-2 ..... 1 set (Blank plate assembly)

\* VQZ2120-5M-C6 ..... 1 set (Valve P/N-single solenoid)

\* VQZ2220-5M-C6 ..... 2 set (Valve P/N-double solenoid)

\* VQZ2320-5M-C6 ..... 1 set (Valve P/N-3 position)

→ Prefix "\*" mark to valves etc. to be assembled on the manifold.

→ Write sequentially from the 1st station on the D side

Add valve suffix and option number to the manifold base number.  
When part numbers written collectively are complicated, specify by using a manifold specification form.

- VQ
- VQ4
- VQZ
- VQD
- VZS
- VFS
- VS
- VS7

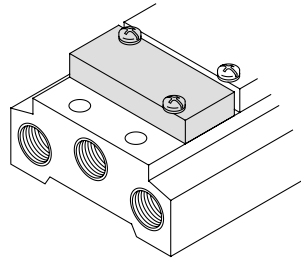
# VQZ1000/2000/3000 Body Ported

## Manifold Option

### Blank plate assembly

- VVQZ1000-10A-2
- VVQZ2000-10A-2
- VVQZ3000-10A-2

This is used when removing the valve for maintenance, or reserving a valve mounting space on the manifold for future use.



SY

SYJ

SX

VK

VZ

VF

VFR

VP7

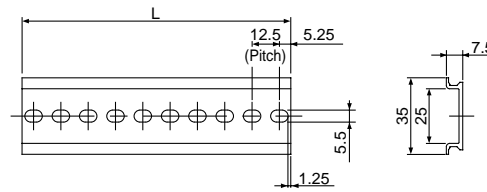
VP4

### DIN rail

- AXT100-DR-□

\* Suffix number into □ from the dimension table below. Refer to each manifold dimensions for L dimension.

To order a manifold with DIN rail already attached, insert "D" at the end of the manifold part number. The DIN rail is approximately 30mm longer than the length of manifold.



#### L dimension

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5

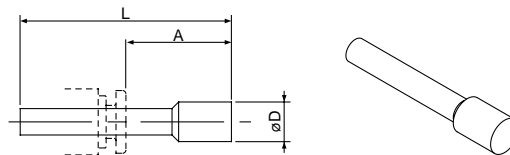
$L=12.5n+10.5$

No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
L	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5

### Fitting blank plug

- KQP-23-X19
- KQP-04-X19
- KQP-06-X19
- KQP-08-X19
- KQP-10-X19

● Color: White



#### Dimensions

Applicable fitting ød	Part No.	A	L	D
3.2	KQP-23-X19	16	31.5	3.2
4	KQP-04-X19	16	32	6
6	KQP-06-X19	18	35	8
8	KQP-08-X19	20.5	39	10
10	KQP-10-X19	22	43	12

VQ

VQ4

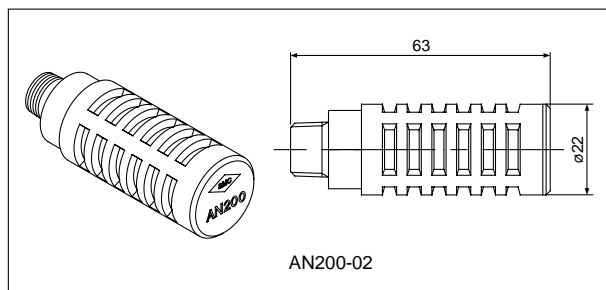
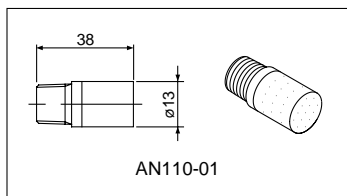
VQZ

VQD

VZS

### EXH port silencer

Silencer is installed in the EXH port.



#### Dimensions

Model	Silencer P/N
VQZ1000	AN110-01
VQZ2000	AN110-01
VQZ3000	AN200-02

VFS

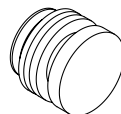
VS

VS7

### Port plug

- VVQZ100-CP(For VQZ1000/VQZ2000)
- VVQZ2000-CP(For VQZ3000)

Used to block an unused cylinder port when using a 4 way valve as a 3 way valve.

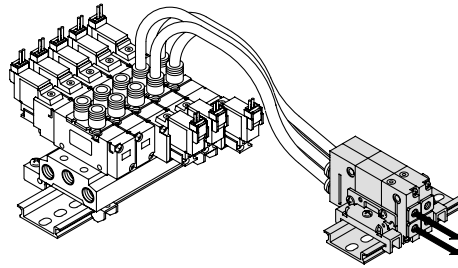


# VQZ1000/2000/3000 Body Ported

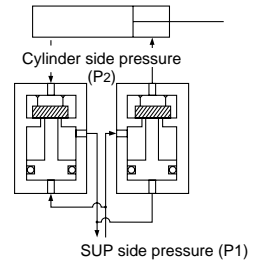
## Manifold Option

**Double check block (Externally placed downstream): For VQZ1000 only**  
**VQ1000-FPG-□□**

Using a 3 position exhaust center valve, this check block can stop and hold a cylinder in mid-stroke. The combination of a 2 position single or double solenoid with a double check will prevent the cylinder from "dropping" at stroke end when the residual supply pressure is released.



### Check Valve Operational Principles

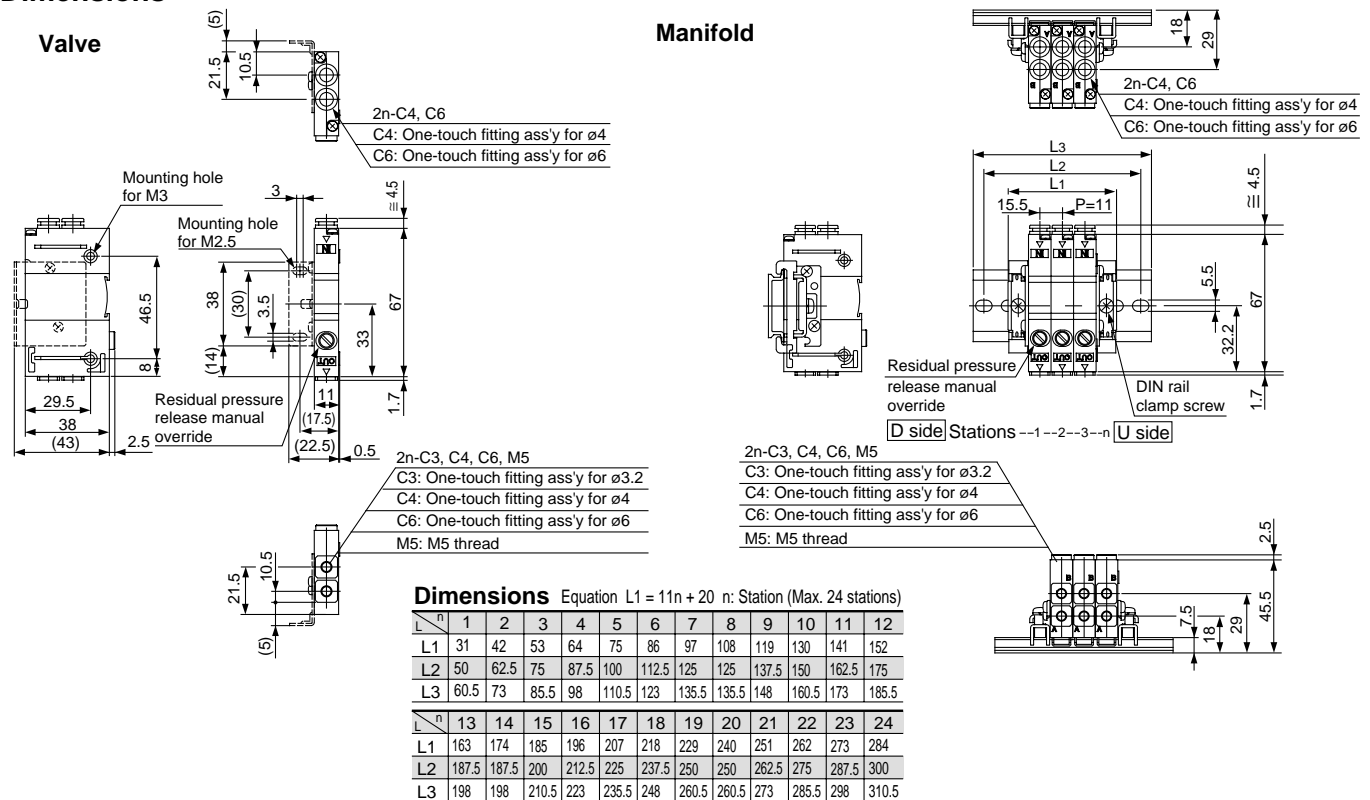


### Specifications

Max. operating pressure	0.8MPa
Min. operating pressure	0.15MPa
Ambient and fluid temp.	-5 to 50°C
Effective area (Cv) <sup>(1)</sup>	2.7mm <sup>2</sup> (0.15)
Max. operating frequency	180 c.p.m

Note 1) As per JISB8375-1981  
 (Supply pressure: 0.5MPa)

### Dimensions



### How to Order

Double check block

VQ1000-FPG-**C4** **M5** **F**

IN side port side

<b>C4</b>	One-touch fitting for ø4
<b>C6</b>	One-touch fitting for ø6

OUT side port side

<b>M5</b>	M5 thread
<b>C3</b>	One-touch fitting for ø3.2
<b>C4</b>	One-touch fitting for ø4
<b>C6</b>	One-touch fitting for ø6

Option

—	None
<b>D</b>	DIN rail mounting (for manifold)
<b>F</b>	With bracket
<b>N</b>	With name plate

Note) When specifying more than one option, combine symbols in alphabetically. Ex.) -DN

Manifold

VVQ1000-FPG-**06**

Stations

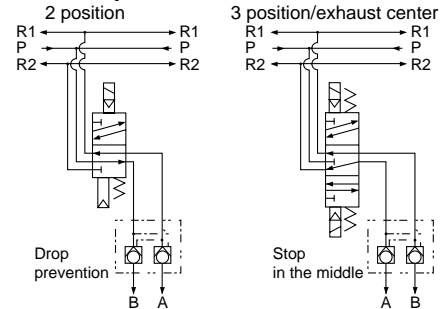
<b>01</b>	1 station
⋮	⋮
<b>16</b>	16 stations

<Example>

VVQ1000-FPG-06...6 stations of manifold  
 \* VQ1000-FPG-C4M5-D, 3 sets } Double check block  
 \* VQ1000-FPG-C6M5-D, 3 sets }

1.12-24

### <Examples>



### ⚠ Cautions

- Since air leakage from the pipe between the valve and cylinder or the fittings will prevent the cylinder from stopping for a long time. Check for air leakage using neutral household detergent, such as dish washing soap. Also check the cylinder's tube gasket, piston seal and rod seal for leakage.
- Since slight air leakage from One-touch fittings is allowed, use of a piping screw (with M5 thread) is recommended when stopping the cylinder in the middle for a long time.
- Combining double check block with 3 position closed center or pressure center solenoid valve will not work.
- A M5 fitting assembly is attached, without being incorporated in the perfect block. After screwing in the fittings, mount the ass'y on the double check block. Tightening torque: 0.8 to 1.2Nm
- If exhaust side of double check block is narrowed down too much, this decreases the intermediate stop accuracy.