

# 5 Port Solenoid Valve VQ Series

## Space-saving profile

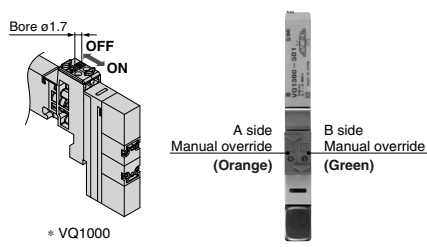
All pilot valves are compactly mounted on one side. The space-saving design of mounting all fittings on one side permits mounting in three directions.

## The non-bias, one-clamp structure permits easy valve replacement.

## Built-in One-touch fittings for easy piping

## Slide locking type manual override provided

ON/OFF operation and locking can be made by sliding the manual override.



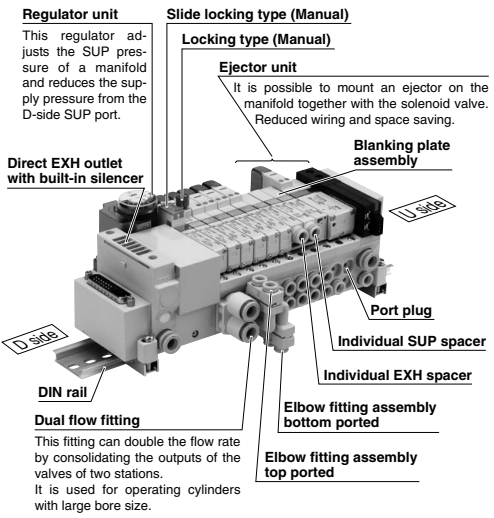
## Thin compact design with high flow capacity

Model	Manifold pitch (mm)	Flow rate characteristics		Applicable cylinder bore size
		Metal seal	Rubber seal	
		C [dm <sup>3</sup> /(s·bar)]	C [dm <sup>3</sup> /(s·bar)]	
VQ1000	10.5	0.72	1.0	Up to $\phi 50$
VQ2000	16	2.6	3.2	Up to $\phi 80$


\* Flow rate characteristics: 4/2 → 5/3 (A/B → R1/R2)

## A wide variety of optional parts

\* The photo does not show an actual use example.



## Valve Specifications

			Sonic conductance C [dm <sup>3</sup> /(s·bar)] 4/2 → 5/3 (A/B → R1/R2)		Type of actuation					Voltage			Electrical entry			Manual override							
					Double	Single	3-position (Closed center)	Single	Double	Closed center	Exhaust center	Pressure center	12 VDC 24 VDC	100 VAC 110 VAC 50/60 Hz	200 VAC 220 VAC 50/60 Hz	Plug-in	Grommet	L-type plug connector	M-type plug connector	Non-locking push type (Tool required)	Locking type (Tool required)	Locking type (Manual)	Slide locking type (Manual)
Base Mounted	Plug-in	VQ1000 Series	Metal seal	VQ1□00	0.72	0.72								(F/L kit only)									
			Rubber seal	VQ1□01	1.0	0.65																	
		P. 372		P. 380																			
	Plug-in	VQ2000 Series	Metal seal	VQ2□00	2.6	2.0									(F/L kit only)								
			Rubber seal	VQ2□01	3.2	2.2																	
		P. 376		P. 380																			

## How to Order Valves

Note) For CE-compliant models, DC-type only.



## How to Order Manifold Assembly

VQ 1 1 0 0 - 5 1 -

## Series

1 VQ1000

## Type of actuation

1	2-position single (A) 4 (B) 2 (R) 1/2 3 (R2) 2 (P)
2	Metal 2-position double (A) 4 (B) 2 (R) 1/2 3 (R2) 2 (P) Rubber 2-position double (A) 4 (B) 2 (R) 1/2 3 (R2) 2 (P)
3	3-position closed center (A) 4 (B) 2 (R) 1/2 3 (R2) 2 (P)
4	3-position exhaust center (A) 4 (B) 2 (R) 1/2 3 (R2) 2 (P)
5	3-position pressure center (A) 4 (B) 2 (R) 1/2 3 (R2) 2 (P)
A Note 1	4-position dual 3-port valve (A) 4 (B) 2 (R) 1/2 3 (R2) 2 (P)
B Note 2	4-position dual 3-port valve (B) 4 (B) 2 (R) 1/2 3 (R2) 2 (P)
C Note 3	4-position dual 3-port valve (C) 4 (A) 2 (B) 2 (R) 1/2 3 (R2) 2 (P)

Note) Rubber seal only

## Seal

0 Metal seal  
1 Rubber seal

## Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.4 W) ○	○ Note 1)
B	High-speed response type	(0.95 W) ○	—
K Note 2)	High-pressure type (1.0 MPa)	○	—
N Note 3)	Negative common	○	—
R Note 5)	External pilot	○	○

Note 1) Refer to page 381 for power consumption of AC type.

Note 2) Metal seal only

Note 3) For external pilot and negative common

specifications, refer to "Semi-standard" on pages 419 and 420.

Note 4) When two or more symbols are specified, indicate them alphabetically. Combination of [B] and [K] is not possible.

Note 5) Dual 3-port valve is not applicable.

## Manual override

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

## Light/surge voltage suppressor

Nil	Yes
E Note 1, 2)	None (Non-polar)

Note 1) Not applicable to the S kit.

Note 2) A combination of "Function [N] (Negative common)" and [E] is unavailable.

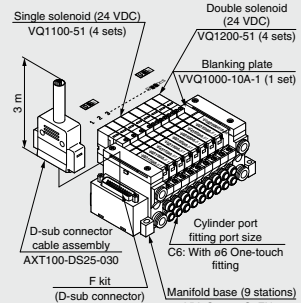
Since [E] has no polarity, it can also be used as a negative common. Selection of "Function [N]" is not required.

## Coil voltage

		CE-compliant
1	100 VAC (50/60 Hz)	—
2 Note 1)	200 VAC (50/60 Hz)	—
3	110 VAC (50/60 Hz)	—
4 Note 1)	220 VAC (50/60 Hz)	—
5	24 VDC	●
6	12 VDC	●

Note) 200 and 220 VAC: F/L kit only

## Example



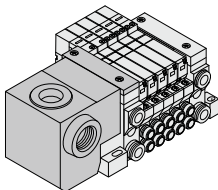
VV5Q11-09C6FU2 ... 1 set (F kit 9-station manifold base part no.)  
 \*VQ1100-51 ... 4 sets (Single solenoid part no.)  
 \*VQ1200-51 ... 4 sets (Double solenoid part no.)  
 \*VVQ1000-10A-1 ... 1 set (Blanking plate part no.)

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.

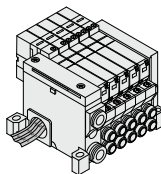
## Caution

Use the standard (DC) specification when continuously energizing for long periods of time.

T kit  
(Terminal block box)

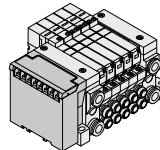
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T0 Terminal block box 2 to 24 stations Note 2)

L kit  
(Lead wire)

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L0	With cable (0.6 m)	1 to 8 stations
L1	With cable (1.5 m)	
L2	With cable (3 m)	

S kit  
(Serial transmission)

The valve is equipped with an indicator light and surge voltage suppressor, and the voltage is 24 VDC.

Note) Refer to "SI Unit Part No." on page 410 when ordering the CE-compliant SI unit

P. 410

S0	Without SI unit	Note 2)
SH	NKE Corp.: Fieldbus H System	Max. 16 stations
SQ	DeviceNet™	Max. 16 stations
SR1	OMRON Corp.: CompoBus/S (16 outputs)	Max. 16 stations
SR2	OMRON Corp.: CompoBus/S (8 outputs)	Max. 8 stations
V	CC-LINK	
ZB	CompoNet™(Positive common)	Max. 16 stations
ZBN	CompoNet™(Negative common)	