

SMC

VQC

SQ

VQ0

Manifold Specifications

	Base model	Type of connection	Porting specifications			Maximum	Applicable	
Series			4(A), 2(B)	Port size Note)		applicable	solenoid	5 station weight
			location	1(P), 5(R1), 3(R2)	4(A), 2(B)	stations	valve	(119)
VQ5000	VV5Q51-□□□	 F kit–D-sub connector T kit–Terminal block box T1 kit–Individual terminal block kit L kit–Lead wire S kit–Serial transmission 	Side	Rc 3/4 Option Direct exhaust with silencer box	Rc 3/8 Rc 1/2	F, L, T1 kits 12 stations T kit 11 stations S kit 9 stations	VQ5L00 VQ5L01	 4.1 L kit Not including solenoid valve weight.
			Bottom		Rc 1/2			

Note) For details about international standard threads other than Rc threads, refer to "Option" on page 2-6-39.

Flow Characteristics at the Number of Manifold Stations (Operated individually)

Model	Passage/Statio	ons	Station 1	Station 5	Station 10	
		C [dm ³ /(s·bar)]	11	11	11	
	$1 \rightarrow 4/2 \ (P \rightarrow A/B)$	b	0.24	0.24	0.24	
2 position metal seal		Cv	2.7	2.7	2.7	
VQ5200		C [dm ³ /(s·bar)]	12	12	12	
	$4/2 \rightarrow 5/3 (A/B \rightarrow EA/EB)$	b	0.14	0.14	0.14	
		Cv	2.9	2.9	2.9	
		C [dm ³ /(s·bar)]	12	12	12	
	$1 \rightarrow 4/2 \ (P \rightarrow A/B)$	b	0.33	0.33	0.33	
2 position rubber seal		Cv	3.4	3.4	3.4	
VQ5 ¹ 201		C [dm ³ /(s·bar)]	16	16	16	
	$4/2 \rightarrow 5/3 (A/B \rightarrow EA/EB)$	b	0.33	0.33	0.33	
		Cv	4.4	4.4	4.4	

Note) For port size Rc 1/2

Manifold Option

Blanking plate assembly VVQ5000-10A-1	Individual SUP spacer VVQ5000-P-1- ⁰³ ₀₄	Individual EXH spacer VVQ5000-R-1- ⁰³ ₀₄	EXH block plate VVQ5000-16A-2
e o o			
Throttle valve spacer VVQ5000-20A-1	SUP stop valve spacer VVQ5000-37A-1	SUP block plate VVQ5000-16A-1	Double check spacer with residual pressure release valve VVQ5000-25A-1
Release valve spacer	Direct exhaust with	For exhaust cleaner mounting	Interface regulator
VVQ5000-24A-1D	silencer box	[-C₿□]	ARBQ5000-00-ဋ္ဌ-1
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Refer to pages 2-6-34 to 2-6-38 for detailed dimensions of each option.
 For replacement parts, refer to page 2-6-43.



Base Mounted

Series VQ5000

Kit (Serial transmission unit)

- The serial transmission system reduces wiring work, while minimizing wiring and saving space.
- The system is available in types such as the type SA for equipment with a maximum of 32 input/output points (a general purpose type for small scale systems), the type SB capable of controlling up to 512 points of input/output (Mitsubishi Electric compatible), the type SC (OMRON compatible), the type SD (SHARP compatible, 504 points max.), the type SF (NKE compatible, 128 points max.), the type SJ (SUNX compatible), the type SK (Fuji Electric compatible), the type SQ (OMRON Compo Bus/D compatible), and the type SR (OMRON Compo Bus/S compatible).
- Maximum 9 stations (12 stations available as an option. Indicate 10 to 12 stations on the manifold specification sheet.)
- One station is used for serial unit mounting.



- Stations are counted from station 1 on the D side.
- Double wiring (connected to SOL. A and SOL. B) is adopted for the internal wiring of each station, regardless of valve and option types. Mixed single and double wiring is available as an option.

Item	Specifications			
External power supply	24 VDC +10%, -5%			
Current consumption (Internal unit)	SA, SB, SBB, SD, SF, SJ, SK, SQ, SR, SV: 0.1A SC: 0.3A			

How to Order Manifold



* For details on specifications and handling, refer to the separate technical instruction manual.

VV5C	2 <u>5</u> 1-08	03	3	Suq-				
			• Option					
Se	ries 🧄 🔰 👘				Symbol	Option		
5 VQ	5000	_ <u>●</u>	Model			None		
		(0	Without SI unit	CD1 (2)	Exhaust cleaner for Rc 1: D side exhaust		
	Manifold		Α	With general type SI unit (Series EX300)	CD2 (2)	Exhaust cleaner for Rc 11/2: D side exhaust		
	I Plug-in unit		в	Mitsubishi Electric Corp.:	CU1 (2)	Exhaust cleaner for Rc 1: U side exhaust		
1				MELSECNET/MINI-S3 Data Link System	CU2 ⁽²⁾	Exhaust cleaner for Rc 11/2: U side exhaust		
	Stations		вв	Mitsubishi Electric Corp.: MELSECNET/MINI-S3	K (3)	Special wiring specifications (Except double wiring)		
			<u> </u>	OMBON Corp : SYSBUS Wire System	SD (2)	Direct exhaust with silencer box: D side exhaust		
	02 2 stations		D	SHARP Corp : Satellite I/O Link System	SU (2)	Direct exhaust with silencer box: U side exhaust		
	: :	F	F1	NKE Corp.: Uni-wire System (16 output points)	W	IP65 enclosure		
	12 12 stations	J	J1	SUNX Corp.: S-LINK System (16 output points)		Note 1) When two or more symbols are specified		
	Note) Add 1 station for	J	J2	SUNX Corp.: S-LINK System (8 output points)	(_)	indicate them alphabetically. Example) -CD1K.		
(.) serial unit mounting.	I	κ	Fuji Electric Co.: T-LINK Mini System		Note 2) Combination of $[C_U^D \Box]$ and $[S_U^D]$ is not possible.		
F	\sim		Q	DeviceNet, CompoBus/D (OMRON Corp.)	m'	Note 3) Specify the wiring specifications on the		
			R1	OMRON Corp.: CompoBus/S System (16 output points)		manifold specification sheet.		
			R2 (OMRON Corp.: CompoBus/S System (8 output points)				
				JEMANET (JPCN-1)				
				Mitsubishi Electric Corp.: CC-LINK System				
Culinder next			G	Rockwell Automation: Allen Bradley Remote I/O (RIO) System				
	Cylinder port		H	NKE Corp.: Uni-wire H System				
03	Rc 3/8							
04	Rc 1/2	SI unit mounting position						
В	Bottom ported Rc 1/2	D	D	side mounting				
СМ	Mixed	U	U	side mounting				

IP65 compliant

VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD



*∕∂*SMC

How to Order Valves VQ 5 0 5 Enclosure Series Dusttight 5 VQ5000 Nil Dusttight/Low jetproof type w Type of actuation (IP65) 2 position single 1 2 2 position double Manual override 3 3 position closed center Nil Non-locking push type (Tool required) 4 3 position exhaust center Locking type (Tool required) в 5 3 position pressure center 6 3 position double check Coil voltage 5 24 VDC **Function** Seal Nil Standard type (1 W) 0 Metal seal Y (1 Low wattage type (0.5 W) Rubber seal **R**⁽²⁾ External pilot Note 1) Applicable to DC specification. Note 2) Refer to page 2-6-39 for details on external pilot specifications. Note 3) When two or more symbols are specified, indicate them alphabetically.

How to Order Manifold Assembly

Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>

Serial transmission unit

VV5Q51-0603SUA ... 1 set -- Manifold base part no.



Series VQ5000

Kit (Serial transmission unit)





Note) In the case of two power supply systems (separate SI unit and solenoid drive power supplies), there are conduit ports (G 1/2) in four locations. Other models have conduit ports in two locations.