

Plug-in Unit

Series VQC4000/5000

Base-Mounted Type

How to Order Valves

VQC 4 1 01-51-X503

VQC 5 1 01-51-X503

Series
4 VQC4000

Series
5 VQC5000

Type of actuation

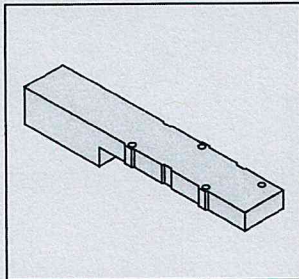
1	2-position single
2	2-position double (metal)
	2-position double (rubber)
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center

Type of actuation

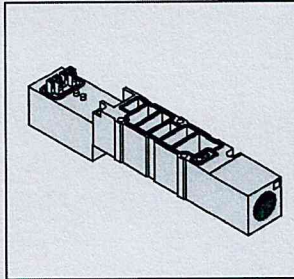
1	2-position single
2	2-position double (metal)
	2-position double (rubber)
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center

Manifold Options

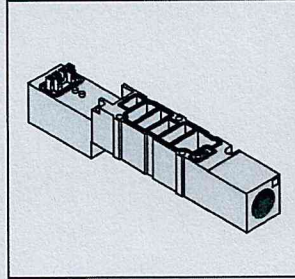
Blanking plate assembly
VVQ4000-10A-1



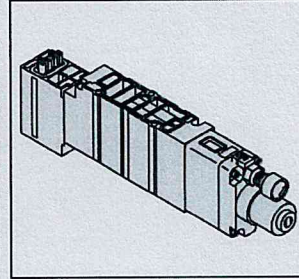
Individual SUP spacer
VVQ4000-P-1-⁰²/₀₃



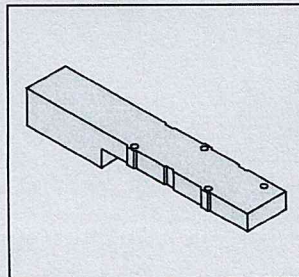
Individual EXH spacer
VVQ4000-R-1-⁰²/₀₃



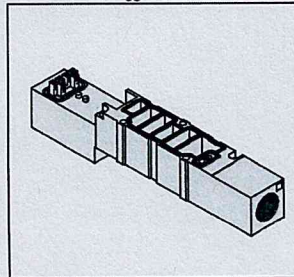
Interface regulator
ARBQ4000-00-^A/_{B-1}



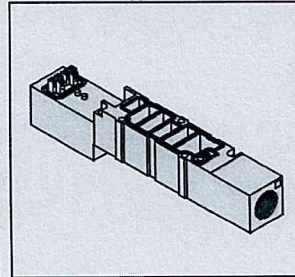
Blanking plate assembly
VVQ5000-10A-1



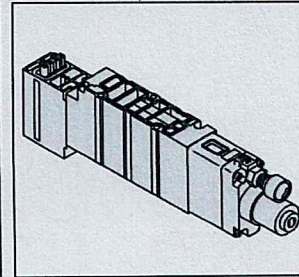
Individual SUP spacer
VVQ5000-P-1-⁰²/₀₃



Individual EXH spacer
VVQ5000-R-1-⁰²/₀₃



Interface regulator
ARBQ5000-00-^A/_{B-1}



Standard Specifications

Valve specifications	Valve Configuration		Rubber seal	
	Fluid		Air/Inert gas	
	VQC4000	Max. operating pressure		1.0MPa (0.7MPa)
		Min. operating pressure (psi)	Single	0.2MPa (29.0)
			Double	0.15MPa
		3-position	0.2MPa (29.0)	
	VQC5000	Max. operating pressure <small>Note 3)</small>		1.0MPa (0.7MPa)
		Min. operating pressure (psi)	Single	0.2MPa (29.0)
			Double	0.15MPa
			3-position	0.2MPa (29.0)
	Proof pressure		1.5MPa	
	Ambient and fluid temperature		-10° to 50°C <small>Note 1)</small>	
	Lubrication		Not required	
Manual override		Push type/Locking type (tool required) optional		
Impact resistance/Vibration resistance		150/30 m/s ² <small>Note 2)</small>		
Enclosure		Dust proof (conforms to IP67)		
Electrical specifications	Rated coil voltage		24VDC	
	Allowable voltage fluctuation		±10% of rated voltage	
	Coil insulation type		Equivalent to B type	
	Power consumption (Current)	24VDC	1W DC (42mA), 0.5W DC (21mA)	

Note 1) Use dry air to prevent condensation at low temperatures.

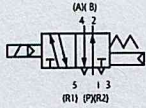
Note 2) Impact resistance: No malfunction resulted from the impact test using a drop impact tester. The test was performed one time each in the axial and right angle directions of the main valve and armature, for both energized and de-energized states.

Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000Hz. Test was performed in the axial and right angle directions of the main valve and armature for both energized and de-energized states.

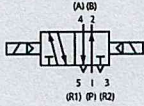
Note 3) Values in () are for the low wattage (0.5W) specification.

Symbols

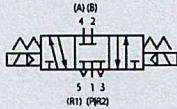
2-position single



2-position double



3-position closed center



3-position exhaust center



3-position pressure center



Models

Series	No. of solenoids	Model	Response time ^{Note 2)} ms				Weight g (lbs)		
			1 Ø 4, 2 (P Ø A, B)	4, 2 Ø 5, 3 (A, B Ø R1, R2)	Standard: 1W	Low wattage			
			Cv	Cv					
VQC4000	2-position	Single	Rubber seal	VQC4101	2.1	2.0	25 or less	27 or less	230 (0.51)
		Double	Rubber seal	VQC4201	2.1	2.0	15 or less	15 or less	
	3-position	Closed center	Rubber seal	VQC4301	1.9	1.9	50 or less	52 or less	280 (0.62)
		Exhaust center	Rubber seal	VQC4401	1.9	2.0	50 or less	52 or less	
		Pressure center	Rubber seal	VQC4501	1.9	2.0	50 or less	52 or less	

Series	No. of solenoids	Model	Response time ^{Note 2)} ms				Weight kg (lbs)		
			1 Ø 4, 2 (P Ø A, B)	4, 2 Ø 5, 3 (A, B Ø R1, R2)	Standard: 1W	Low wattage			
			Cv	Cv					
VQC5000	2-position	Single	Rubber seal	VQC5101	4.4	4.2	40 or less	43 or less	.58 (1.28)
		Double	Rubber seal	VQC5201	4.4	4.2	25 or less	28 or less	
	3-position	Closed center	Rubber seal	VQC5301	3.5	3.3	60 or less	63 or less	.58 (1.28)
		Exhaust center	Rubber seal	VQC5401	4.4	4.2	60 or less	63 or less	
		Pressure center	Rubber seal	VQC5501	3.5	3.5	60 or less	63 or less	



Note 1) Values represented in this column are in the following conditions:

VQC4000: Cylinder port size Rc 3/8
VQC5000: Cylinder port size Rc 1/2

Note 2) Values represented in this column are based on JISB8375-1981 (operating with clean air and a supply pressure of 0.5MPa. Equipped with light and surge voltage suppressor. Values vary depending on the pressure as well as the air quality.) Values for double types are when the switch is ON.