

Series VQ5000

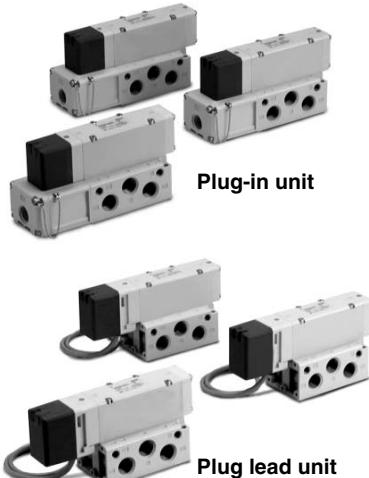
Base Mounted

Plug-in/Plug Lead: Single Unit

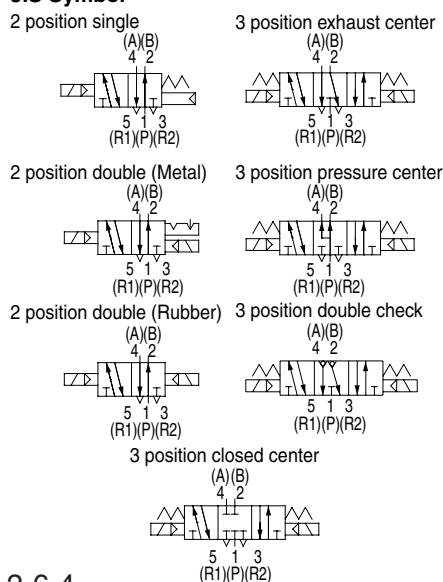
Model

Series	Number of solenoids	Model	Port size	Flow Characteristics					Response time (ms)			Weight (kg)		
				1 → 4/2 (P → A/B)		4/2 → 5/3 (A/B → EA/EB)		Standard 1 W	Low wattage 0.5 W	AC				
				C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]							
VQ5000	2 position	Single	Metal seal	VQ51 ₅ ⁰	12	0.14	2.9	14	0.18	3.4	35 or less	38 or less	38 or less	0.59 (0.67)
			Rubber seal	VQ51 ₅ ¹	16	0.33	4.4	17	0.31	4.7	40 or less	43 or less	43 or less	0.58 (0.66)
		Double	Metal seal	VQ52 ₅ ⁰	12	0.14	2.9	14	0.18	3.4	20 or less	23 or less	23 or less	0.62 (0.70)
			Rubber seal	VQ52 ₅ ¹	16	0.33	4.4	17	0.31	4.7	25 or less	28 or less	28 or less	0.60 (0.68)
	3 position	Closed center	Metal seal	VQ53 ₅ ⁰	11	0.24	2.6	11	0.23	2.8	50 or less	53 or less	53 or less	0.65 (0.73)
			Rubber seal	VQ53 ₅ ¹	12	0.33	3.4	13	0.37	3.7	60 or less	63 or less	63 or less	0.58 (0.66)
		Exhaust center	Metal seal	VQ54 ₅ ⁰	12	0.13	2.9	14	0.18	3.4	50 or less	53 or less	53 or less	0.65 (0.73)
			Rubber seal	VQ54 ₅ ¹	14	0.39	3.9	16	0.35	4.5	60 or less	63 or less	63 or less	0.58 (0.66)
		Pressure center	Metal seal	VQ55 ₅ ⁰	12	0.23	2.9	13	0.24	3.3	50 or less	53 or less	53 or less	0.65 (0.73)
			Rubber seal	VQ55 ₅ ¹	13	0.32	3.4	14	0.40	3.9	60 or less	63 or less	63 or less	0.58 (0.66)
		Double check	Metal seal	VQ56 ₅ ⁰	8.0	—	—	8.5	—	—	62 or less	65 or less	65 or less	1.17 (1.25)
			Rubber seal	VQ56 ₅ ¹	8.3	—	—	9.0	—	—	75 or less	78 or less	78 or less	1.10 (1.18)

Note) Value for valve on sub-plate.



JIS Symbol



Standard Specifications

Valve specifications	Valve construction		Metal seal	Rubber seal
	Fluid	Air/Inert gas		
	Maximum operating pressure ⁽³⁾	1.0 MPa		
	Min. operating pressure	Single	0.10 MPa	0.20 MPa
		Double	0.10 MPa	0.15 MPa
		3 position	0.15 MPa	0.20 MPa
	Proof pressure	1.5 MPa		
	Ambient and fluid temperature	−5 to 50°C ⁽¹⁾		
	Lubrication	Not required		
	Manual override	Push type/Locking type (Tool required) Option		
Solenoid specifications	Shock/Vibration resistance	150/30 m/s ² ⁽²⁾		
	Protection structure	Dust tight (IP65 compatible)		
	Coil rated voltage	12, 24 VDC, 100, 110, 200, 220 VAC (50/60 Hz)		
	Allowable voltage fluctuation	±10% of rated voltage		
	Coil insulation type	Class B or equivalent		
	Power consumption (Current)	24 VDC	1 W DC (42 mA), 0.5 W DC (21 mA) ⁽³⁾	
		12 VDC	1 W DC (83 mA), 0.5 W DC (42 mA) Note ⁽³⁾	
		100 VAC	Inrush 1.2 VA (12 mA), Holding 1.2 VA (12 mA)	
		110 VAC	Inrush 1.3 VA (11.7 mA), Holding 1.3 VA (11.7 mA)	
		200 VAC	Inrush 2.4 VA (12 mA), Holding 2.4 VA (12 mA)	
		220 VAC	Inrush 2.6 VA (11.7 mA), Holding 2.6 VA (11.7 mA)	



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

Note 2) Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)

Note 3) Values inside () denote the low wattage (0.5 W) specifications.