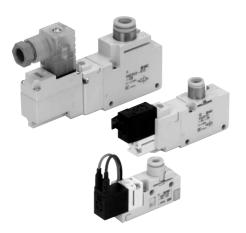
Body Ported Series VQZ100/200/300



Valve specifications	Valve construct	tion	Metal seal	VQZ100 (Poppet seal)					
	Fluid		Air/Inert gas						
	Maximum oper	ating pressure	0.7 MPa (High pressure type: 1.0 MPa)	0.7 MPa	0.7 MPa (High pressure type: 1.0 MPa)				
	Minimum opera	ating pressure	0.1 MPa	0.15 MPa	0.15 MPa				
	Ambient and fluid temperature		-10 to 50°C (1)	-10 to 50°C (1)	-10 to 50°C (1)				
	Maximum operating frequency		20 Hz	5 Hz	20 Hz				
	Pilot valve EXH		Individu	Common exhaust					
	Lubrication		Not required						
	Pilot valve manual override		Non-locking push type/Slotted locking type (tool required) as an option						
	Shock/Vibration resistance (2)		150/30 m/s ²						
	Enclosure		Dustproof						
	Coil rated voltage		12, 24 VDC and 100, 110, 200, 220 VAC						
ons	Allowable voltage fluctuation		±10% of rated voltage						
cati	Coil insulation type		Equivalent to class B						
Electricity specifications		24 VDC	1 W DC (42 mA), 0.5 W DC (21 mA)						
	Power consumption (Current)	12 VDC	1 W DC (83 mA), 0.5 W DC (42 mA)						
		100 VAC	Inrush 0.5 VA (5 mA), Holding 0.5 VA (5 mA)						
		110 VAC	Inrush 0.55 VA (5 mA), Holding 0.55 VA (5 mA)						
		200 VAC	Inrush 1.0 \) VA (5 mA)					
		220 VAC	Inrush 1.1 VA (5 mA), Holding 1.1 VA (5 mA)						
6	Note 1) Use d	Irv air to prevent	condensation when oper	rating at low temperatur	es				

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)

Flow Characteristics/Weight

	Valve construction	Model		Flow characteristics				Response time (ms) ⁽¹⁾			(0)		
Series				$1 \rightarrow 2 (P \rightarrow A)$		$2 \rightarrow 3 (A \rightarrow R)$			High pressure type: 1.0 W		Weight ⁽²⁾		
				C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv	type:	Low wattage type: 0.5 W	AC	(g)
VQZ100	N.C. valve	Poppet	VQZ115	0.59	0.44	0.17	0.56	0.30	0.14	10 or less	13 or less	22 or less	25
	200 N.C. valve	Metal seal	VQZ212	1.2	0.21	0.30	1.3	0.24	0.33	14 or less	18 or less	34 or less	- 58
V07000		Rubber seal	VQZ232	1.6	0.33	0.39	1.7	0.37	0.45	15 or less	20 or less	36 or less	
VQZ200		Metal seal	VQZ222	1.2	0.25	0.31	1.3	0.20	0.31	14 or less	18 or less	34 or less	
	N.O. Valve	Rubber seal	VQZ242	1.6	0.36	0.40	1.7	0.36	0.45	15 or less	20 or less	36 or less	
	N.C. valve	Metal seal	VQZ312	2.7	0.18	0.62	2.4	0.28	0.56	17 or less	22 or less	34 or less	92
107000		Rubber seal	VQZ332	3.5	0.34	0.87	3.0	0.33	0.72	25 or less	33 or less	57 or less	
VQZ300	N.O.valve	Metal seal	VQZ322	2.6	0.21	0.59	2.2	0.16	0.49	17 or less	22 or less	34 or less	
	N.O.valve	Rubber seal	VQZ342	3.5	0.38	0.88	2.9	0.27	0.69	25 or less	33 or less	57 or less	

Standard Specifications

Note 1) Based on JIS B 8375-1981 (Supply pressure: 0.5 MPa; with light/surge voltage suppressor; clean air) The response time is subject to the pressure and the air quality.

Response time values will change depending on pressure and air quality.

Note 2) Weight without sub-plate

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