



### Standard Specifications

		Metal seal	Rubber seal	VQZ100 (Poppet seal)	
Valve specifications	Valve construction	Air/Inert gas			
	Fluid	Air/Inert gas			
	Maximum operating pressure	0.7 MPa (High pressure type: 1.0 MPa)	0.7 MPa	0.7 MPa (High pressure type: 1.0 MPa)	
	Minimum operating pressure	0.1 MPa	0.15 MPa	0.15 MPa	
	Ambient and fluid temperature	-10 to 50°C <sup>(1)</sup>	-10 to 50°C <sup>(1)</sup>	-10 to 50°C <sup>(1)</sup>	
	Maximum operating frequency	20 Hz	5 Hz	20 Hz	
	Pilot valve EXH	Individual EXH		Common exhaust	
	Lubrication	Not required			
	Pilot valve manual override	Non-locking push type/Slotted locking type (tool required) as an option			
	Shock/Vibration resistance <sup>(2)</sup>	150/30 m/s <sup>2</sup>			
Enclosure		Dustproof			
Electricity specifications	Coil rated voltage	12, 24 VDC and 100, 110, 200, 220 VAC			
	Allowable voltage fluctuation	±10% of rated voltage			
	Coil insulation type	Equivalent to class B			
	Power consumption (Current)	24 VDC	1 W DC (42 mA), 0.5 W DC (21 mA)		
		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), Holding 1.0 VA (5 mA)			
220 VAC	Inrush 1.1 VA (5 mA), Holding 1.1 VA (5 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)

### Flow Characteristics/Weight

Series	Valve construction	Model		Flow characteristics						Response time (ms) <sup>(1)</sup>			Weight <sup>(2)</sup> (g)
				1 → 2 (P → A)			2 → 3 (A → R)			Standard type: 1 W	High pressure type: 1.0 W Low wattage type: 0.5 W	AC	
				C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm <sup>3</sup> /(s·bar)]	b	Cv				
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
VQZ200	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
		Rubber seal	VQZ232	1.6	0.33	0.39	1.7	0.37	0.45	15 or less	20 or less	36 or less	
	N.O. valve	Metal seal	VQZ222	1.2	0.25	0.31	1.3	0.20	0.31	14 or less	18 or less	34 or less	
		Rubber seal	VQZ242	1.6	0.36	0.40	1.7	0.36	0.45	15 or less	20 or less	36 or less	
VQZ300	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
		Rubber seal	VQZ332	3.5	0.34	0.87	3.0	0.33	0.72	25 or less	33 or less	57 or less	
	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	
		Rubber seal	VQZ342	3.5	0.38	0.88	2.9	0.27	0.69	25 or less	33 or less	57 or less	

- 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