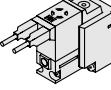
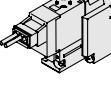
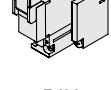
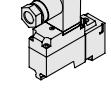


3 Port Solenoid Valve

Metal Seal/Rubber Seal, Body Ported

Series VQZ100/200/300

Series Variations

		Sonic conductance C [dm ³ /(s·bar)]	Type of actuation	Voltage	Electrical entry	With light/surge voltage suppressor	Manual override	
Body Ported	VQZ100	Metal	Rubber (Poppet) 0.56		Grommet (G)  L plug connector (L)			V100
	VQZ200	—		(A) 1.3 1.7 (R)(P) N.C.	(Standard) 12 VDC 24 VDC (Option) 100 VAC 200 VAC 110 VAC 220 VAC	L plug connector (L) 	Non-locking push type (Tool required)	SY
	VQZ300			(A) 2.4 3.0 (R)(P) N.O. (Except VQZ100)		M plug connector (M)  DIN terminal (Y)  (Except VQZ100)	DIN terminal (YZ) (Except VQZ100)	SYJ
								VK
								VZ
								VT
								VP
								VG
								VP
								S070
								VQ
								VKF
								VQZ
								VZ
								VS
								VFN

Plug Lead Unit: Single Unit Series VQZ1000/2000/3000

Standard Specifications



- 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)

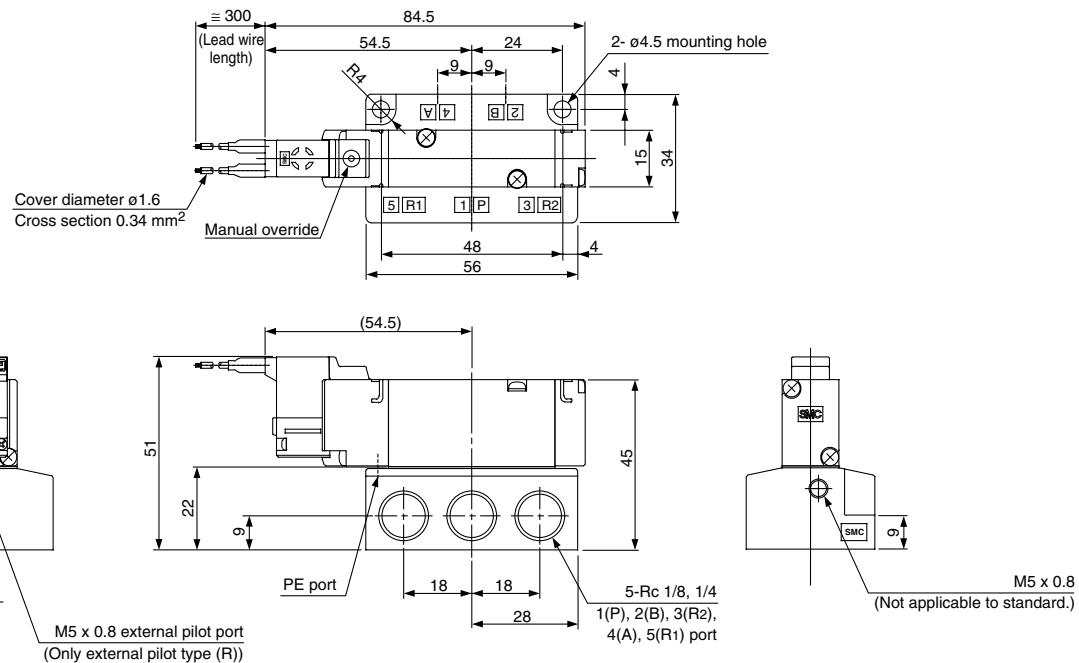
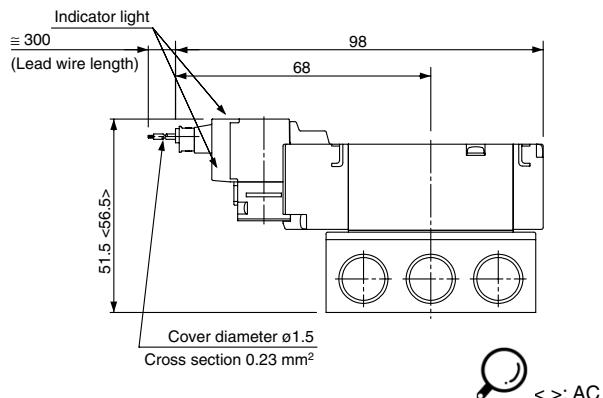
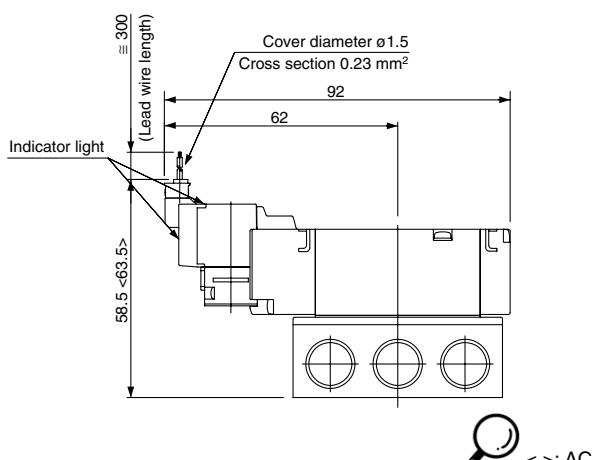
Valve specifications		Metal seal		Rubber seal			
Fluid		Air/Inert gas		Air/Inert gas			
Maximum operating pressure		0.7 MPa (High pressure type: 1.0 MPa)		0.7 MPa			
Min. operating pressure	2 position single	0.1 MPa only for VQZ3000, 3 position 0.15 MPa	0.15 MPa	0.15 MPa			
	Double			0.1 MPa			
	3 position			0.2 MPa			
Ambient and fluid temperature		−10 to 50°C ⁽¹⁾		−10 to 50°C ⁽¹⁾			
Max. operating frequency	2 position	Single, Double	20 Hz		5 Hz		
	3 position		10 Hz		3 Hz		
Pilot valve EXH		Individual EXH					
Lubrication		Not required					
Manual override		Push type/Locking type (Tool required) Option					
Shock/Vibration resistance ⁽²⁾		150/30 m/s ²					
Enclosure		Dust-protected					
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					
Electricity specifications	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)				

Model

Series	Configuration	Model	Flow characteristics						Response time (ms) ⁽¹⁾			(2) Weight (g)	
			1 → 4/2 (P → A/B)		4/2 → 5/3 (A/B → EA/EB)		Standard 1 W	High pressure: 1 W Low wattage: 0.5 W	AC				
VQZ1000	2 position	Single	Metal seal	VQZ1150	0.70	0.21	0.17	0.70	0.21	0.17	12 or less	15 or less	29 or less
			Rubber seal	VQZ1151	1.2	0.35	0.30	1.3	0.24	0.32	12 or less	15 or less	34 or less
		Double	Metal seal	VQZ1250	0.70	0.21	0.17	0.70	0.21	0.17	10 or less	13 or less	13 or less
			Rubber seal	VQZ1251	1.2	0.35	0.30	1.3	0.24	0.32	10 or less	13 or less	13 or less
	3 position	Closed center	Metal seal	VQZ1350	0.56	0.20	0.13	0.57	0.22	0.14	20 or less	26 or less	40 or less
			Rubber seal	VQZ1351	1.1	0.33	0.27	1.0	0.38	0.27	25 or less	33 or less	47 or less
		Exhaust center	Metal seal	VQZ1450	0.56	0.20	0.13	0.70	0.21	0.17	20 or less	26 or less	40 or less
			Rubber seal	VQZ1451	1.1	0.33	0.27	1.3	0.24	0.32	25 or less	33 or less	47 or less
		Pressure center	Rubber seal	VQZ1551	1.4	0.20	0.34	1.0	0.38	0.27	25 or less	33 or less	47 or less
		Single	Metal seal	VQZ2150	1.6	0.13	0.36	1.9	0.16	0.40	14 or less	18 or less	34 or less
			Rubber seal	VQZ2151	2.0	0.35	0.51	2.3	0.29	0.53	15 or less	20 or less	36 or less
			Metal seal	VQZ2250	1.6	0.13	0.36	1.9	0.16	0.40	10 or less	13 or less	13 or less
			Rubber seal	VQZ2251	2.0	0.35	0.51	2.3	0.29	0.53	12 or less	15 or less	15 or less
VQZ2000	3 position	Closed center	Metal seal	VQZ2350	1.5	0.16	0.35	1.3	0.26	0.32	23 or less	30 or less	44 or less
			Rubber seal	VQZ2351	1.7	0.27	0.39	1.7	0.28	0.39	25 or less	33 or less	47 or less
		Exhaust center	Metal seal	VQZ2450	1.5	0.16	0.35	1.9	0.16	0.40	23 or less	30 or less	44 or less
			Rubber seal	VQZ2451	1.7	0.27	0.39	2.3	0.29	0.53	25 or less	33 or less	47 or less
		Pressure center	Metal seal	VQZ2550	1.8	0.13	0.39	1.5	0.26	0.36	23 or less	30 or less	44 or less
			Rubber seal	VQZ2551	2.0	0.35	0.50	1.7	0.28	0.39	25 or less	33 or less	47 or less
	2 position	Single	Metal seal	VQZ3150	2.6	0.12	0.60	3.0	0.15	0.74	17 or less	22 or less	34 or less
			Rubber seal	VQZ3151	3.9	0.29	1.0	4.6	0.26	1.2	25 or less	33 or less	57 or less
		Double	Metal seal	VQZ3250	2.6	0.12	0.60	3.0	0.15	0.74	10 or less	13 or less	13 or less
			Rubber seal	VQZ3251	3.9	0.29	1.0	4.6	0.26	1.2	15 or less	20 or less	20 or less
VQZ3000	3 position	Closed center	Metal seal	VQZ3350	2.4	0.12	0.58	2.8	0.16	0.65	25 or less	33 or less	53 or less
			Rubber seal	VQZ3351	3.1	0.33	0.82	3.6	0.35	0.97	30 or less	39 or less	59 or less
		Exhaust center	Metal seal	VQZ3450	2.4	0.12	0.58	3.0	0.15	0.74	25 or less	33 or less	53 or less
			Rubber seal	VQZ3451	3.9	0.33	0.82	4.6	0.26	1.2	30 or less	39 or less	59 or less
		Pressure center	Metal seal	VQZ3550	3.0	0.12	0.69	2.9	0.16	0.65	25 or less	33 or less	53 or less
			Rubber seal	VQZ3551	4.4	0.27	1.1	3.6	0.35	0.97	30 or less	39 or less	59 or less

Note 1) Based on JIS B 8375-1981 (Supply pressure; 0.5 MPa; with indicator light/surge voltage suppressor; clean air). Response time values will change depending on pressure and air quality. The values at the time of ON are given for double types.
 Note 2) Weight without sub-plate

VQC
SQ
VQO
VQ4
VQ5
VQZ
VQD

Series VQZ1000/2000/3000**Dimensions: VQZ2000****2 position single****Grommet (G): VQZ215⁰₁(R)-□G□-01****L plug connector (L): VQZ215⁰₁(R)-□L□-01****M plug connector (M): VQZ215⁰₁(R)-□M□-01****DIN terminal (Y): VQZ215⁰₁(R)-□Y□-01**