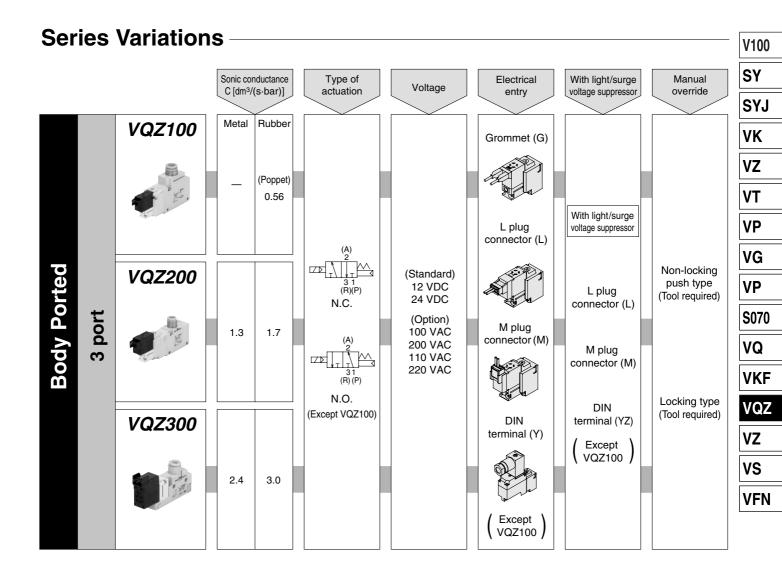
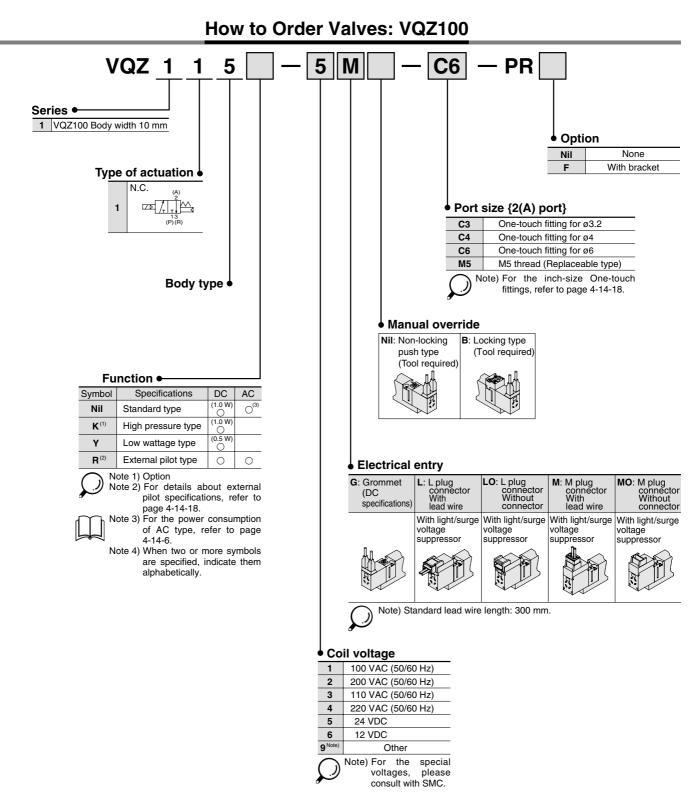
# 3 Port Solenoid Valve Metal Seal/Rubber Seal, Body Ported Series VQZ100/200/300



## 3 Port Solenoid Valve ( Find the applicable products conforming to international standards, visit us at www.smcworld.com. Metal/Rubber Seal, Body Ported, Plug Lead Unit Valve Single Unit

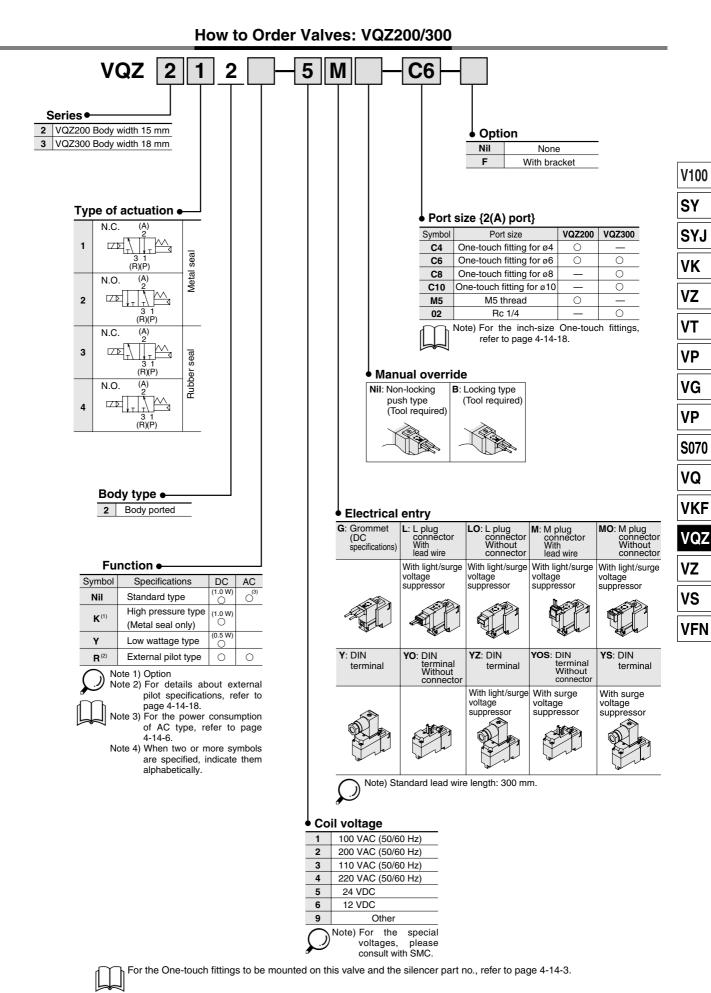
## Series VQZ100/200/300



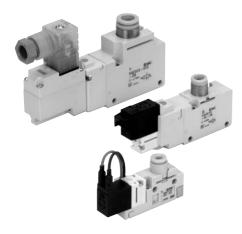
For the One-touch fittings to be mounted on this valve and the silencer part no., refer to page 4-14-3.



### Metal/Rubber Seal, Body Ported, Plug Lead Unit Series VQZ100/200/300



#### Series VQZ100/200/300



#### **Standard Specifications**

	Valve construc	tion	Metal seal Rubber seal VQZ100 (Pop						
	Fluid		Air/Inert gas						
Valve specifications	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/s²						
	Enclosure		Dustproof						
	Coil rated volta	ge	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						
Ċij	Power consumption (Current)	24 VDC	1 W DC (42 mA), 0.5 W DC (21 mA)						
Electricity specifications		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>			(2)		
				1 → 2 (P → A)		$2 \rightarrow 3 (A \rightarrow R)$		Stanuaru	High pressure type: 1.0 W		Weight (2)		
				C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm <sup>3</sup> /(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
	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
VO7000		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	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	
	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
V07000		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	
		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



#### 3 Port Solenoid Valve Metal/Rubber Seal, Body Ported, Plug Lead Unit Manifold (Connector Kit)

## Series VQZ100/200/300

