

Solenoid Valve Specifications

Series		SZ3000	
Fluid		Air	
Internal pilot operating pressure range (MPa)	2 position single	0.15 to 0.7	
	2 position double	0.1 to 0.7	
	3 position	0.2 to 0.7	
	4 position dual 3 port valve	0.15 to 0.7	
External pilot operating pressure range (MPa)	Operating pressure range		
	Pilot pressure range	2 position single	0.25 to 0.7
		2 position double	0.25 to 0.7
3 position	0.25 to 0.7		
Ambient and fluid temperature (°C)		-10 to 50 (No freezing)	
Max. operating frequency (Hz)	2 position single, double	10	
	4 position dual 3 port valve		
	3 position	3	
Manual override (Manual operation)		Non-locking push type, Push-turn locking slotted type	
Pilot type		Common exhaust type for main and pilot valve	
Lubrication		Not required	
Mounting orientation		Unrestricted	
Impact/Vibration resistance m/s ² <small>Note)</small>		150/30	
Enclosure		Dust-protected	

Note) 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)

Note) 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)

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Electrical entry	L type (For plug-in), M type plug connector (M)
Rated coil voltage (V) <small>Note)</small>	24, 12 VDC
Allowable voltage fluctuation	±10% of rated voltage
Power consumption (W)	0.6 (With light: 0.65)
Surge voltage suppressor	Diode
Indicator light	LED

Note) Only 24 VDC and 12 VDC are available for plug-in use.

Response Time

Note) Based on dynamic performance test, JIS B 8419: 2010. (Coil temperature: 20°C, at rated voltage)

Type of actuation	Response time (ms) (at the pressure of 0.5 MPa)	
	Without surge voltage suppressor	With surge voltage suppressor S, Z type
2 position single	12 or less	15 or less
2 position double	10 or less	13 or less
3 position	15 or less	20 or less
4 position dual 3 port valve	30 or less	35 or less

Weight

Valve model	Type of actuation	Port size	Weight (g)	
		4(A), 2(B)		
SZ3□60□□-C4	2 position	Single	78	
		Double	84	
	3 position	Closed center	C4 (One-touch fitting for ø4)	88
		Exhaust center		
4 position	Dual 3 port valve	84		
SZ3□60□□-C6	2 position	Single	74	
		Double	81	
	3 position	Closed center	C6 (One-touch fitting for ø6)	85
		Exhaust center		
4 position	Dual 3 port valve	81		
SZ3□60□□-M5	2 position	Single	69	
		Double	75	
	3 position	Closed center	M5 x 0.8	79
		Exhaust center		
4 position	Dual 3 port valve	75		