

5 Port Solenoid Valve Body Ported Series VZ5000

How to Order

Body ported VZ5

Type of actuation

1 2 3 4 5

Body option

0

Rated voltage

5

Electrical entry

L

With light/surge voltage suppressor

Manual override

4(A)/2(B) port size

01

Thread type

Option

F: With foot bracket (2 position single type only)

Note) Do not remove the factory installed bracket from models with the bracket option.

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

4(A), 2(B) port size

01	Rc 1/8
C6	One-touch fitting for ø6
C8	One-touch fitting for ø8

Note) P, R1, R2 port: Rc 1/8

Manual override

Nil: Non-locking push type B: Locking type B (Slotted) C: Locking type C (Manual)

Light/Surge voltage suppressor

Nil	None
Z*	With light/surge voltage suppressor
S	With surge voltage suppressor

Type of actuation

1 2 position single solenoid (A) (B) 4 2 5 (R1) (P) (R2)

2 2 position double solenoid (A) (B) 4 2 5 (R1) (P) (R2)

3 3 position closed center (A) (B) 4 2 5 (R1) (P) (R2)

4 3 position exhaust center (A) (B) 4 2 5 (R1) (P) (R2)

5 3 position pressure center (A) (B) 4 2 5 (R1) (P) (R2)

Body option

0: Individual exhaust for the pilot valve

3: Common exhaust type for main and pilot valve

Rated voltage

1	100 VAC, 50/60 Hz
2	200 VAC, 50/60 Hz
3*	110 VAC, 50/60 Hz
4*	220 VAC, 50/60 Hz
5*	24 VDC
6	12 VDC
9*	Other

* Option

Electrical entry

Grommet	L plug connector	M plug connector	DIN terminal
G: Lead wire length 300 mm	L: With lead wire (Length 300 mm)	M: With lead wire (Length 300 mm)	D: With connector
H: Lead wire length 600 mm	LN: Without lead wire	MN: Without lead wire	DO: Without connector
	LO: Without connector	MO: Without connector	

* Type "LN", "MN": With 2 sockets.

VK

VZ

VF

VFR

VP4

VZS

VFS

VS4

VQ7

EVS

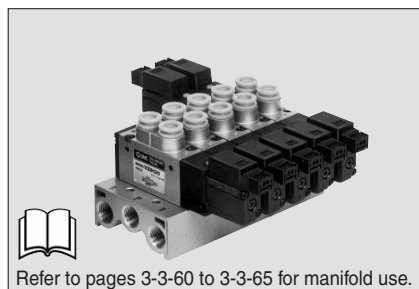
VFN

Series VZ5000

Applicable for cylinder actuation (up to $\phi 50$).

Compact size
(Width: 18 mm)

Low power consumption:
1.8 W DC



Refer to pages 3-3-60 to 3-3-65 for manifold use.



Made to Order Specifications
(For details, refer to page 3-3-85.)

Specifications

Fluid	Air	
Operating pressure range (MPa)	2 position single	0.15 to 0.7
	2 position double	0.1 to 0.7
	3 position	0.15 to 0.7
Ambient and fluid temperature (°C)	-10 to 50°C (No freezing. Refer to page 3-13-4.)	
Response time (ms) ⁽¹⁾ (at the pressure of 0.5 MPa)	2 position single, double	20 or less
	3 position	50 or less
Max. operating frequency (Hz)	2 position single, double	10
	3 position	3
Effective area	Refer to the table below.	
Manual override ⁽²⁾	Non-locking push type, Locking slotted type, Locking lever type	
Pilot exhaust method	Individual pilot exhaust type, Common exhaust (pilot and main valve) type	
Lubrication	Not required	
Mounting orientation	Unrestricted	
Impact/Vibration resistance (m/s ²) ⁽³⁾	300/50	
Enclosure	Dustproof	

Note 1) Based on dynamic performance test, JIS B 8375-1981. (Coil temperature: 20°C, at rated voltage, without surge suppressor)

Note 2) When operating the locking type manually, apply torque of 0.2 N·m or less.

Note 3) 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)

Solenoid Specifications

* Option

Electrical entry			Grommet (G)/(H), L plug connector (L), M plug connector (M), DIN terminal (D)
Coil rated voltage (V)	AC 50/60 Hz		100, 200, 24*, 48*, 110*, 220*
	DC		24, 6*, 12*, 48*
Allowable voltage fluctuation (%)			−15 to +10% of rated voltage
Power consumption (W) <small>Note)</small>	DC		1.8 (With indicator light 2.1)
[Current mA]			[24 VDC: 75 (With indicator light 87.5)]
Apparent power (VA) <small>Note)</small> [Current mA]	AC	Inrush	4.5/50 Hz, 4.2/60 Hz [100 VAC: 45/50 Hz, 42/60 Hz 200 VAC: 22.5/50 Hz, 21/60 Hz]
		Holding	3.5/50 Hz, 3/60 Hz [100 VAC: 35/50 Hz, 30/60 Hz 200 VAC: 17.5/50 Hz, 15/60 Hz]
Surge voltage suppressor			DC: Diode, AC: ZNR
Indicator light			DC: LED (Red), AC: Neon bulb

Note) At rated voltage