

5 Port Solenoid Valve Body Ported Series VZ3000

How to Order

Body ported VZ3

Type of actuation 1 2 0 **Body option** 5 **Rated voltage** L **Electrical entry** **Light/Surge voltage suppressor** **Manual override** **4(A)/2(B) port size** M5 **Option**

Type of actuation

1 2 position single

2 2 position double

3 3 position closed center

4 3 position exhaust center

5 3 position pressure center

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

Option

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

U: With silencer

K: With foot bracket and silencer (2 position single only)

Note) The bracket and silencer are not assembled.

4(A), 2(B) port size

M5	M5 x 0.8
C4	One-touch fitting for ø4
C6	One-touch fitting for ø6

Note) 1(P), 5(R1), 3(R2) port: M5 x 0.8

Manual override

Nil: Non-locking push type

C: Locking type C (Manual)

B: Locking type B (Slotted)

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	
	LO: Without connector	MO: Without connector	DO: Without connector

Light/Surge voltage suppressor

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

* Not available for "GZ", "HZ" and "DOZ"

VK

VZ

VF

VFR

VP4

VZS

VFS

VS4

VQ7

EVS

VFN

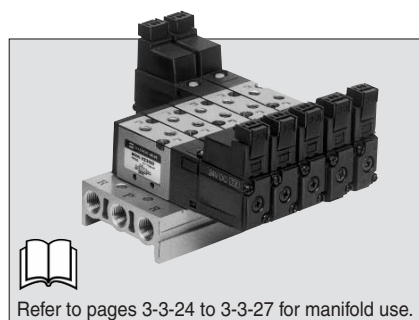
* Type "LN", "MN": With 2 sockets.

Series VZ3000

Applicable for cylinder actuation (up to $\phi 40$).

Compact size
(Width: 15 mm)

Low power consumption:
1.8 W DC



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	35 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) ^{Note)}	DC		1.8 (With indicator light 2.1)	
[Current mA]			[24 VDC: 75 (With indicator light 87.5)]	
Apparent power (VA) ^{Note)}	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

Option

Description	Part no.	Note
With foot bracket	DXT170-34-1B	For VZ312 ⁰
Silencer	AN120-M5	Noise reduction: 21dB or more ($\phi 8 \times 17$ mm)