

# 4 Port Solenoid Valve Body Ported Series VZ1000

## How to Order

VK

VZ

VF

VFR

VP4

VZS

VFS

VS4

VQ7

EVS

VFN

Non plug-in

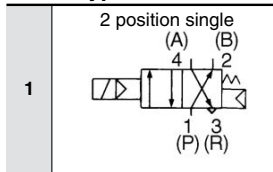
VZ1120

5

L

M5

### Type of actuation



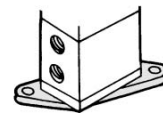
### Rated voltage

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



\* Bracket is not mounted.

M5 x 0.8

### Light/Surge voltage suppressor

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

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

### Electrical entry

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

\* Type "LN", "MN": with 2 sockets.

### Option

Description	Part no.	Note
Foot bracket	DXT170-34-1B	With mounting screw (M3 x 8)



Refer to pages 3-3-13 to 3-3-16 for manifold use.

# Series VZ1000

Applicable for cylinder actuation (up to  $\phi 16$ ).

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

Valve configuration	Pilot type 4 port solenoid valve
Fluid	Air
Operating pressure range (MPa)	0.15 to 0.7
Ambient and fluid temperature (°C)	-10 to 50 (No freezing. Refer to page 3-13-4.)
Response time (ms) (at the pressure of 0.5 MPa) <sup>(1)</sup>	15 or less
Max. operating frequency (Hz)	15
Effective area	Refer to the table below.
Lubrication	Not required
Manual override	Non-locking push type
Exhaust throttle	Not available
Mounting orientation	Unrestricted
Shock/Vibration resistance (m/s <sup>2</sup> ) <sup>(2)</sup>	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) 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 1000 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> [Current mA]			DC 1.8 (With indicator light 2.1) [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

## Effective Area/Weight

Valve model	Type of actuation	Effective area (mm <sup>2</sup> )		Port size	Weight (g)
VZ1120-□-M5	2 position single solenoid	1 → 4	0.6	M5 x 0.8	90
		2 → 3	1.5		
		1 → 2	1.0		
		4 → 3	0.9		