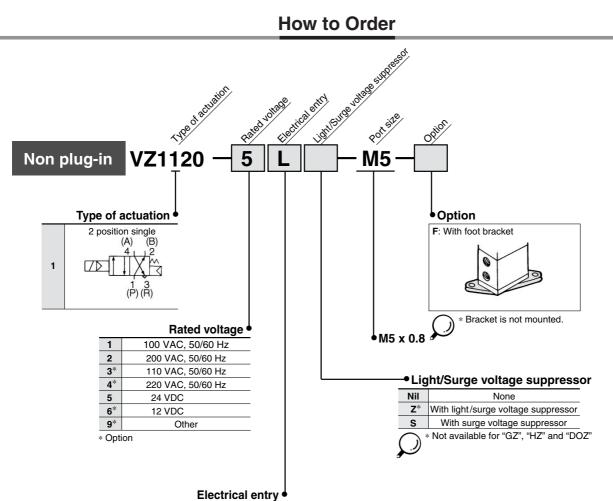
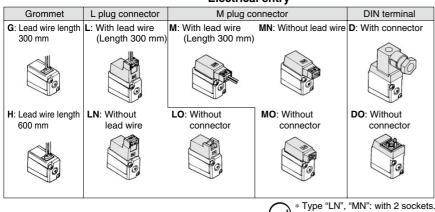
4 Port Solenoid Valve Body Ported

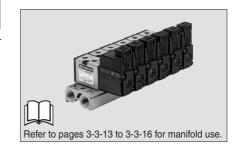
Series VZ1000







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





۷K

٧Z

VFR

VP4

V F +

VZS

VFS

VS4 VQ7

EVS

VFN



Series VZ1000

Applicable for cylinder actuation (up to ø16).

Compact size (Width: 15 mm)

Low power consumption:

1.8 W DC





	Dilli 4 I I I I	
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) (1)	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/s²) (2)	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)

AC 50/60 Hz

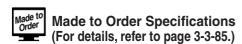
DC

DC

Inrush

Holding

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 1000 Hz. Test was performed at both energized and denergized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)



Solenoid Specifications

Allowable voltage fluctuation (%) Power consumption (W) Note)

Electrical entry

[Current mA]

[Current mA]

Coil rated voltage (V)

Apparent power (VA) Note)

Surge voltage suppressor

	·		
Grommet (G)/(H), L plug connector (L), M plug connector (M), DIN terminal (D)			
100, 200, 24*, 48*, 110*, 220*			
24, 6*, 12*, 48*			
-15 to +10% of rated voltage			
1.8 (With indicator light 2.1) [24 VDC: 75 (With indicator light 87.5)]			
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]		
3.5/50 Hz, 3/60 Hz	100 VAC: 35/50 Hz, 30/60 Hz 200 VAC: 17.5/50 Hz, 15/60 Hz		

DC: Diode, AC: ZNR

DC: LED (Red), AC: Neon bulb

200 VAC: 17.5/50 Hz, 15/60 Hz

* Option



Note) At rated voltage

Effective Area/Weight

Valve model	Type of actuation	Effectiv	/e area (mm²)	Port size	Weight (g)
VZ1120M5	2 position single solenoid	1 → 4	0.6	- M5 x 0.8	90
		$2 \rightarrow 3$	1.5		
		1 → 2	1.0		
		4 → 3	0.9		

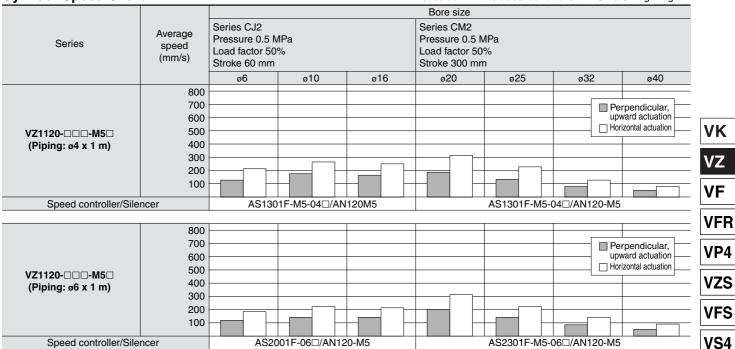


4 Port Solenoid Valve Body Ported Series VZ1000

Cylinder Speed Chart

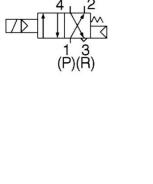
Use as a guide for selection.

Please confirm the actual conditions with SMC Sizing Program.



- * It is when the cylinder is extending that is meter-out controlled by speed controller which is directly connected with cylinder, and its needle valve with being fully open.
- * The average velocity of the cylinder is what the stroke is divided by the total stroke time.
- * Load factor: ((Load weight x 9.8)/Theoretical force) x 100%

Construction



Component Parts

Body

V seal

7 Poppet spring

Push rod

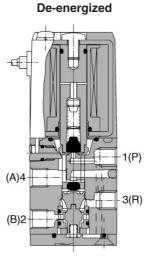
EXH poppet

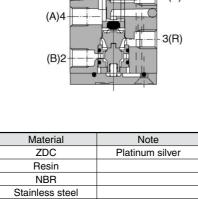
Back up spring

Retainer assembly

No.

Description





FKM

Brass, NBR

Stainless steel

Energized
2 1(P) 4
(A)4
(B)2

Replacement Parts

No.	Description	Material	Part no.	Note
8	Solenoid assembly	Epoxy/Stainless steel	DXT170-A-□□□	
9	O-ring	NBR	13 x 11 x 1	Common with Series VZ ₅ 000

SMC

VQ7

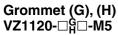
EVS

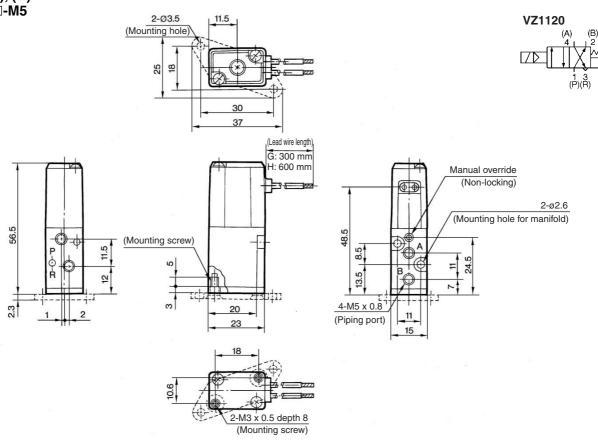
VFN

Series VZ1000

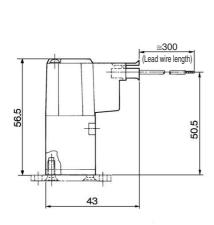


2 Position Single

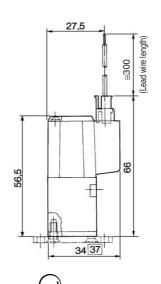




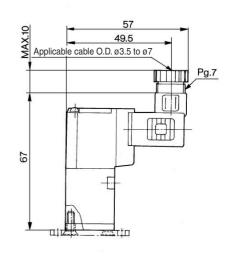
L plug connector (L) VZ1120-□L□-M5



M plug connector (M) VZ1120-□M□-M5



DIN terminal (D) VZ1120-□D□-M5



☐: With light/surge voltage suppressor