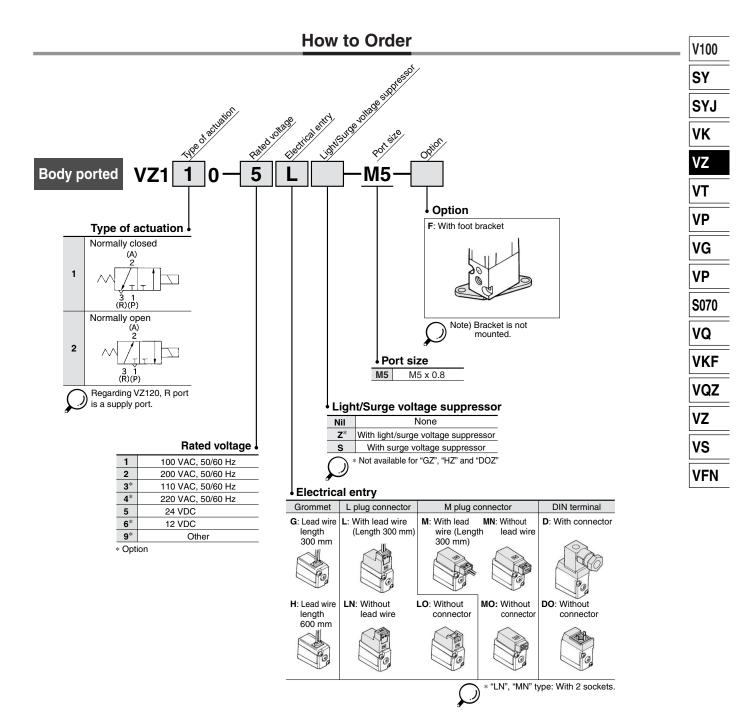


3 Port Solenoid Valve Rubber Seal, Body Ported Series VZ100



Series VZ100

Low power consumption: 1.8 W DC

Applicable for vacuum use -100 kPa





For manifold use, refer to the pages 4-6-8 to 4-6-



Made to Order Specifications (For details, refer to page 4-6-46.)

Option

Descript	tion	Part no.	Note		
With foot bracket		DXT170-34-1A	Mounting screw (M3 x 6)		
Silencer	М5	AN120-M5 (Ø8 x 17ℓ)	For valve unit (R port), Noise reduction: 21 dB or more, Effective area 5 mm²		

Specifications

Fluid	Air		
Operating pressure range	Refer to the table below.		
Ambient and fluid temperature (°C)	-10 to 50 (No freezing. Refer to page 4-18-4.)		
Response time (ms) (1)	15 or less		
Max. operating frequency (Hz)	15		
Flow Characteristics	Refer to the table below. Non-locking push type Not required Unrestricted		
Manual override			
Lubrication			
Mounting orientation			
Shock/Vibration resistance (m/s²) (2)	300/50		
Enclosure	Dustproof		
_			

Note 1) Based on dynamic performance test, JIS B 8374-1981. (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 deenergized 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)	AC50/60 Hz		100, 200, 24*, 48*, 110*, 220*		
Coll faled voltage (v)	DC		24, 6*, 12*, 48*		
Allowable voltage fluctuation	(%)		-15 to +10% of rated voltage		
Power consumption (W) Note) [Current mA]	DC		1.8 (With indicator light 2.1) [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		
[Current mA]		Holding	3.5/50 Hz, 3/60 Hz		
Surge voltage suppressor			DC: Diode, AC: ZNR		
Indicator light			DC: LED (Red), AC: Neon bulb		



Note) At rated voltage

Operating Pressure

Mod	dal	Type of	Operating pressure range	Vacuum speci	fications (MPa)	Dort size	Note) Weight (g)
Model		actuation	(MPa)	1 (P) port	R port	Port Size	weight (g)
Body	VZ110	N.C.	0 to 0.7	-27 kPa to 0.6	-100 kPa to 0	M5 v n 8	70
ported	VZ120	N.O.	0 to 0.5	-100 kPa to 0	-100 kPa to 0.4	IVIO X U.U	70

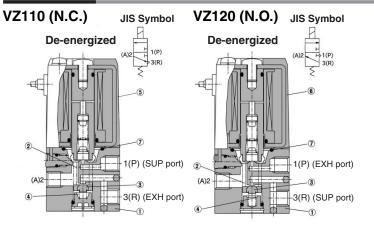


Note) Weight stands for grommet type

Flow Characteristics

	Model			Flow characteristics						
Мо			0.20	Supply side $\begin{bmatrix} N.C.: 1 \rightarrow 2 (P \rightarrow A) \\ N.O.: 3 \rightarrow 2 (R \rightarrow A) \end{bmatrix}$			Exhaust side $\begin{bmatrix} N.C.: 2 \rightarrow 3 & (A \rightarrow R) \\ N.O.: 2 \rightarrow 1 & (A \rightarrow P) \end{bmatrix}$			
				C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv	
Body	VZ110	N.C.	M5 x 0.8	0.11	0.026	0.023	0.19	0.071	0.042	
ported	VZ120	N.O.	IVIO X U.B	0.19	0.071	0.042	0.13	0.18	0.031	

Construction



Component Parts

Į	No.	Description	Material	Note
	1	Body	ZDC	Platinum silver
	2	Push rod	Resin	
	3	EXH poppet	NBR	
		N.C. Back up spring	Stainless	
	4	N.O. Poppet spring	steel	

Replacement Parts

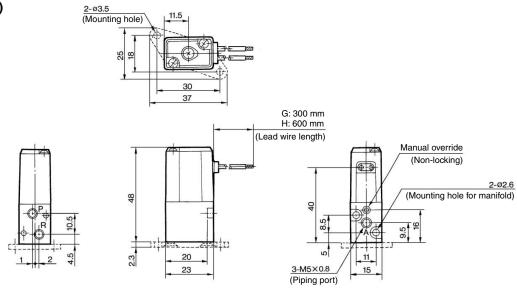
No	. Description	Part no.	Material	Note
(5)	Solenoid assembly	DXT170-A-□□□	Epoxy Stainless steel	VZ110
6	Solenoid assembly	DVT170 F 000	Enovar	VZ120
7	O-ring	13 x 11 x 1	NBR	Common with Series VZ ₅ ³ 00



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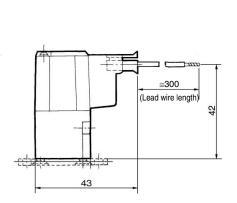


Grommet (G), (H) $VZ1\square 0-\square_H^G\square-M5(-F)$

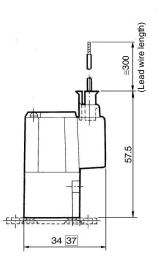


2-M3 x 0.5 depth 5 (Mounting thread)

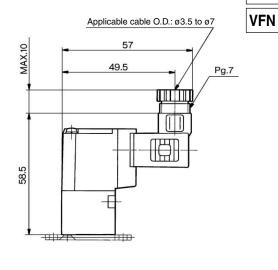
L plug connector (L) VZ1□0-□L□-M5



M plug connector (M) VZ1□0-□M□-M5



DIN terminal (D) VZ1□0-□D□-M5



☐: With light/surge voltage suppressor



V100

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SYJ

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