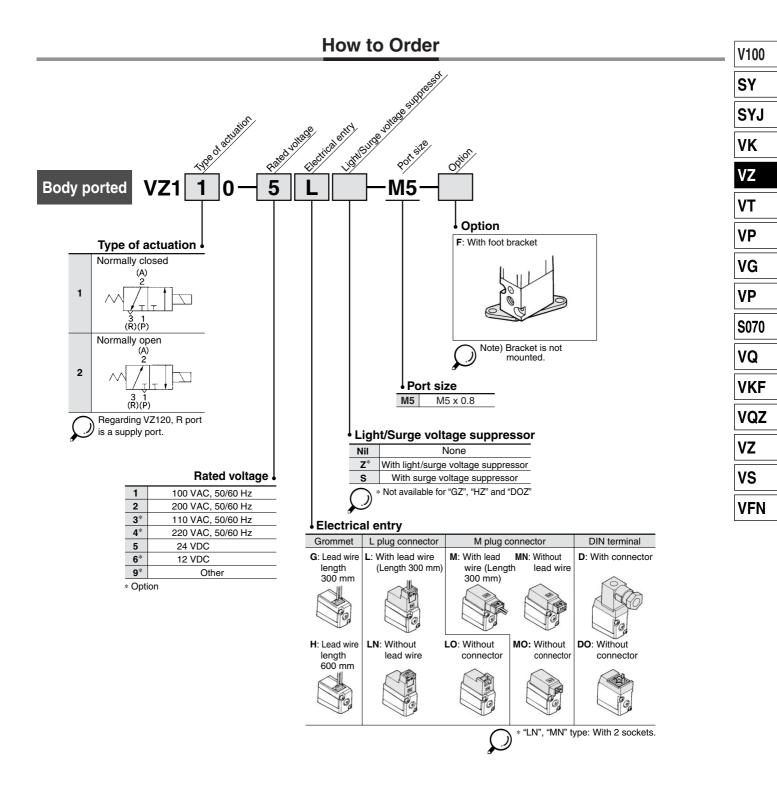


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3 Port Solenoid Valve Rubber Seal, Body Ported Series VZ100

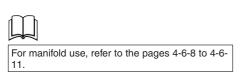


Series VZ100

Low power consumption: 1.8 W DC

Applicable for vacuum use -100 kPa









Option

Description		Part no.	Note		
With foot bracket		DXT170-34-1A	Mounting screw (M3 x 6)		
Silencer M5		AN120-M5 (ø8 x 17ℓ)	For valve unit (R port), Noise reduction: 21 dB or more, Effective area 5 mm ²		

Specifications

epeemeanene	
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.
Manual override	Non-locking push type
Lubrication	Not required
Mounting orientation	Unrestricted
Shock/Vibration resistance (m/s ²) (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

Avia different and a the fight angles to the main value 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 big increased energized states of the state of the stat the main valve and armature. (Values at the initial period)

Solenoid Specifications

Solenoid Specificati	ons	;	* 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*		
Con rated voltage (v)	DC		24, 6*, 12*, 48*		
Allowable voltage fluctuation	(%)		-15 to +10% of rated voltage		
Power consumption (W) Note) [Current mA]	Power consumption (W) Note)		1.8 (With indicator light 2.1) [24 VDC: 75 (With indicator light 87.5)]		
Apparent power (VA) Note)	10	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]	AC	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

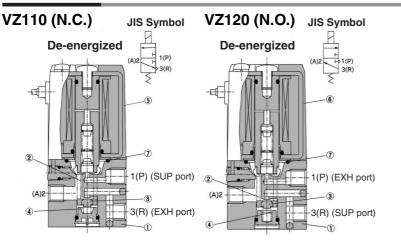
Operating Pressure

Model		Type of	Operating pressure range	Vacuum speci	fications (MPa)	Port size	Note) Weight (g)
		actuation	(MPa)	1 (P) port	R port	Pon size	weight (g)
Body	VZ110	N.C.	0 to 0.7	–27 kPa to 0.6	-100 kPa to 0	MEVOR	70
ported	VZ120	N.O.	0 to 0.5	-100 kPa to 0	-100 kPa to 0.4	IVIJ X 0.0	70
	Note) Weight stands for grommet type						

Flow Characteristics

			0120	Flow characteristics					
		Type of actuation		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 [dm3/(s·bar)]	b	Cv	C [dm3/(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.	1VI5 X U.8	0.19	0.071	0.042	0.13	0.18	0.031

Construction



Component Parts

Ν	lo.	Description	Material	Note
(1)	Body	ZDC	Platinum silver
(2)	Push rod	Resin	
(3)	EXH poppet	NBR	
	2	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		DXT170-E-DDD		
7	O-ring	13 x 11 x 1	NIDD	Common with Series VZ ₅ 00





3 Port Solenoid Valve Rubber Seal, Body Ported Series VZ100

Body Ported

Grommet (G), (H) VZ1□0-□^G_H□-M5(-F)

