3 Port Solenoid Valve **Metal Seal**

Series VZ400

Large flow capacity

Low power consumption: 1.8 W (75 mA, 24 VDC)

Plug connector

One-touch wiring of plug connectors

Common pilot exhaust subplate mounted and manifold





Base mounted

JIS Symbol





Model

Dining	Type of	Choice of pilot valve exhaust		
Piping	actuation	Individual exhaust	Common exhaust	
Body ported	N.C.	VZ412	VZ412*	
	N.O.	VZ422	VZ422*	
Base mounted	N.C.	_	VZ415	
	N.O.	_	VZ425	

Body ported type provides both individual exhaust and common exhaust.

Specifications

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Fluid	Air/Inert gas
Maximum operating pressure	1.0 MPa
Minimum operating pressure	0.15 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	−10 to 50°C
Lubrication	Not required
Enclosure	Dustproof (5)
Manual override	Push type (Safety style), Locking type (Tool required), Locking type (Manual)
Shock/Vibration resistance (m/s²)	150/50 ⁽⁶⁾

		Type	Body ported		Base mounted (With sub-plate)	
Specifications		N.C. valve	N.O. valve	N.C. valve	N.O. valve	
Port size		Rc 1/8		Rc 1/8, 1/4		
<u>S</u>	Sitision 1 → 2	C[dm ³ /(s·bar)]	2.0	2.0	2.4	2.4
ərist		b	0.14	0.17	0.19	0.19
haracter $(A \rightarrow A)$	$(P \rightarrow A)$	Cv	0.49	0.49	0.57	0.57
	The characteristics $(P \rightarrow A)$ and $(A \rightarrow B)$ and $(A \rightarrow B)$	C[dm ² /(s·bar)]	2.2	2.2	2.2	1.9
S ≥		b	0.17	0.17	0.11	0.32
운 (A	$(A \rightarrow R)$	Cv	0.53	0.53	0.49	0.45
Max. operating frequency (c/s) (AC/DC) (1)		15		15		
Resp	Response time (ms) (AC/DC) (2) 21/21 or less		21/21 or less			
Weig	Weight (kg) (3) 0.125		0.2	250		

Note 1) Minimum operating frequency: As per JIS B 8373 (Once in 30 days)

Note 2) Based on JIS B 8375-1981 (Supply pressure; 0.5 MPa; without surge voltage suppressor)

Note 3) Value for grommet (Sub-plate weight: 0.055 kg)

Note 4) "Note 1)" and "Note 2)" are with controlled clean air.

Note 5) Based on JIS C 0920

Note 6) 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

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Electrical entry			Grommet (G), Plug connector (L), 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 fluctuat	ation (%)		ctuation (%) -15 to +10% of rated voltage	
Coil insulation type	Coil insulation type		Class E or equivalent (120°C) (2)	
Temperature rise (°C)			45 or less	
Power consumption (W)	DC		1.8 (With indicator light: 2.1)	
Apparent power (VA)	AC	Inrush	4.5/50 Hz, 4.2/60 Hz	
		Holding	3.5/50 Hz, 3/60 Hz	
Surge voltage suppressor (1)			DC: Diode, AC: ZNR	
Indicator light			DC: LED (Red), AC: Neon bulb	
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Note 1) In the case of grommet type, it is equipped on the middle of lead wire.

Note 2) Based on JIS C 4003

Option

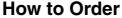
Description		Part no.	Note
Foot bracket (With screw	/) ⁽¹⁾	VZ4000-22A	For VZ4□2
Silencer	R 1/8	AN110-01	Noise reduction: 21 dB (Ø13 x 38ℓ)
	R 1/4 (2)	AN203-02	Noise reduction: 25 dB (Ø16 x 36ℓ)

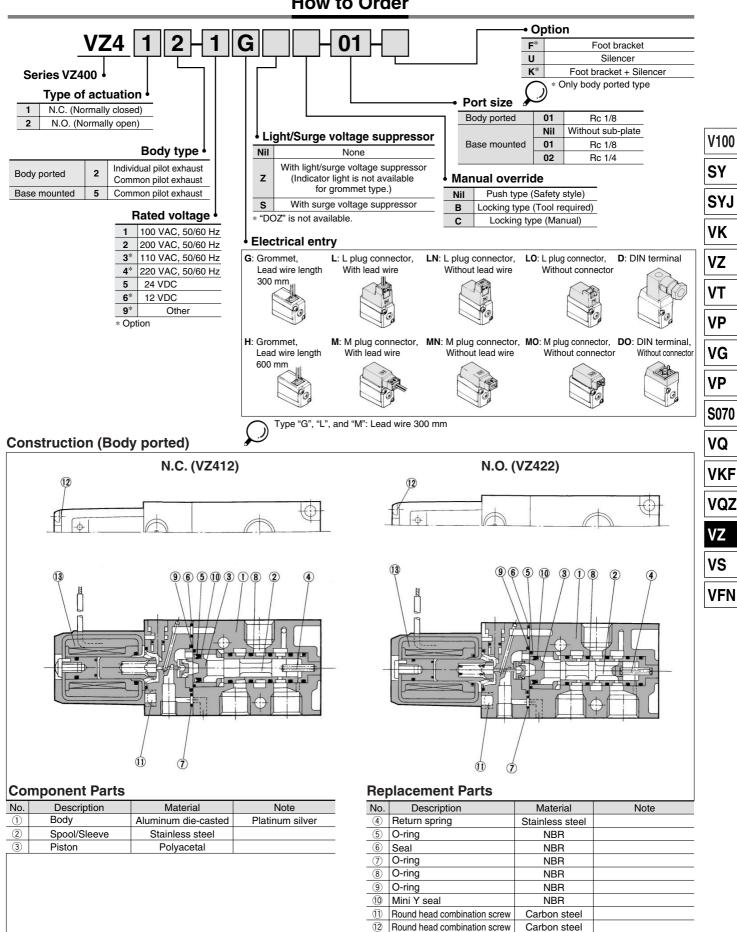


Note 1) For body ported type Note 2) For sub-base mounted type



3 Port Solenoid Valve Metal Seal, Body Ported/Base Mounted Series VZ400





V100

SY

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S070

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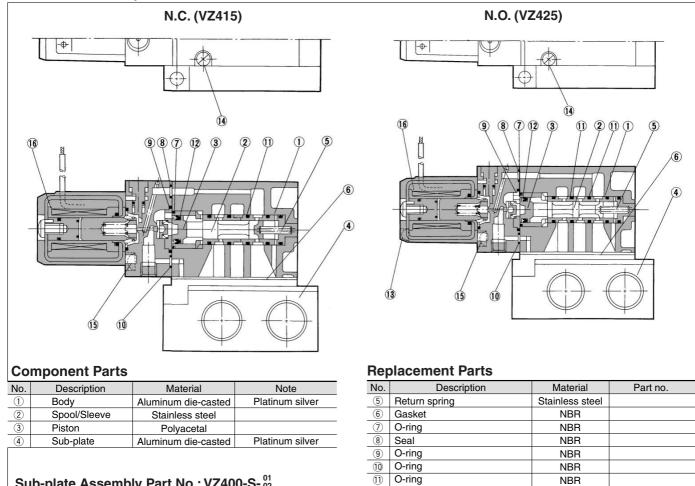
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SCZ4□□□-□-□

13 Pilot valve assembly

Series VZ400

Construction: Sub-plate Mounted



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Mini Y seal

(i) Pilot valve assembly

Round head combination screw

Round head combination screw

Round head combination screw

NBR

NBR

Carbon steel

Carbon steel

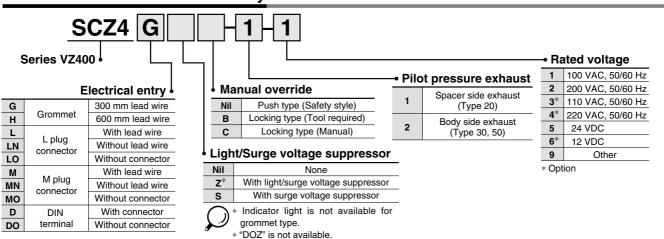
Carbon steel

SCZ4□□□-□-□

How to Order Pilot Valve Assembly

Sub-plate Assembly Part No.: VZ400-S-01

* Mounting bolt and gasket are not attached



3 Port Solenoid Valve Metal Seal, Body Ported/Base Mounted Series VZ400

Dimensions: Body Ported Grommet: VZ4½2-□HG(S)-01 With foot bracket: VZ4½2-□□-01-F 2-ø3.4 mounting hole 2-ø4.5 2-ø4.5 rhounting hole 19.5 M5/15xX0088 FIRST FEXTH Manual override (Non-locking) Manual override Manual override (Locking type (Tool required)) (Locking type (Manual)) 2-ø3.4 mounting hole G: 300 H: 600 d wire length Lead v 12 19.5 3-Rc 1/8 Ø) 35.5 16.7 11 Pilot EXH Locking type manual override L VZ4¹₂2-□L(Z)-01 DIN terminal: VZ4½2-□D(Z)-01 wire length With light/surge voltage suppressor 2-ø3.4 mounting hole Applicable cable O.D. ø3.5 to ø7 46.5 Pg7 23 With light/surge voltage suppressor 12 19.5 2-ø3.4 mounting hole 9 52.1 M plug connector: VZ4½2-□M(Z)-01 With light/surge voltage suppressor 12 19.5 2-ø3.4 mounting hole 91 Max.10 40.5

12 19.5

93.5

≅300

(Lead wire length)

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Series VZ400

Dimensions: Sub-plate Mounted

