**VK** 

VZ

VF

**VFR** 

VP4

**VZS** 

**VFS** 

VS4

VQ7

**EVS** 

 $\mathsf{VFN}$ 

# 5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VZS3000

#### Model

Type of actuation		Model	Port size Rc	Flow characteristics						(1)	(2)	(3)
				1 → 4/2 (P → A/B)			4/2 → 5/3 (A/B → R1/R2)			Max. operating cycle (CPM)	Response time (ms)	Weight
				C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm3/(s-bar)]	b	Cv	Cycle (CPIVI)	time (ms)	(kg)
position	Single	VZS3150	1/4	2.6	0.17	0.58	2.4	0.09	0.53	1200	18 or less	0.22
2 pos	Double	VZS3250	1/4	2.6	0.17	0.58	2.4	0.09	0.53	1200	13 or less	0.27
3 position	Closed center	VZS3350	1/4	2.5	0.17	0.56	2.4	0.11	0.52	500	26 or less	0.28
	Exhaust center	VZS3450	1/4	2.5	0.17	0.56	2.4	0.11	0.49	500	26 or less	0.28
	Pressure center	VZS3550	1/4	2.8	0.12	0.60	2.4	0.16	0.53	500	26 or less	0.28
	Double check	VZS3650	1/4	1.1	_	_	1.2	_	_	420	32 or less	0.43

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Note 1) Min. operating cycle is based on JIS B 8375 (One time per 30 days).

Note 2) Response time is based on JIS B 8375-1981. (0.5 MPa, without light/surge voltage suppressor)

Note 3) For VZS3□50-□FZ-01 Note 4) "Note 1" and "Note 2" are with controlled clean air.

Reduction of wiring cost MIL standard D-sub connector with one-touch connection (Plug-in type)

Compact and large valve capacity: Width 18 mm
Flexible to increase and decrease manifold stations
(Stacking type manifold base)

High frequency/Long service life (more than 30 mil. times) Possible to use in nonlubrication and dry air (Metal seal structure)

## **Different variations for connection** Grommet type

L, M plug connector type: Individual take out of A and B sides

K plug connector type: Common take out of A and B sides

DIN terminal type: Individual take out of A and B sides

# A little power consumption: 1.8 W DC

#### For serial transmission





Non plug-in type

### **Standard Specifications**

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	Fluid		Air/Inert gas				
Valve specifications	Maximum operating pressure		1.0 MPa				
	Minimum operating pressure		0.1 MPa				
	Proof pressure		1.5 MPa				
	Ambient and fluid temperature		-10 to 50°C <sup>(1)</sup>				
	Lubrication		Non-lube (2)				
	Pilot valve manual override		Non-locking push type (Flush)				
	Shock/Vibration resistance (m/s	s²)	150/50 <sup>(3)</sup>				
	Enclosure		Dustproof (Degrees of protection 0) (4)				
	Coil rated voltage		100, 200 VAC, 50/60 Hz; 24 VDC				
Suc	Allowable voltage fluctuation		-15 to +10% of rated voltage				
Electricity specifications	Coil insulation type		Class E or equivalent (120°C) (5)				
	Apparent power (AC)	Inrush	4.5 VA/50 Hz, 4.2 VA/60 Hz				
	Apparent power (AC)	Holding	3.5 VA/50 Hz, 3 VA/60 Hz				
	Power consumption (DC)		1.8 W				
			Plug-in type (FZ)				
	Flactrical antru		Non plug-in type				
ä	Electrical entry		Grommet (G), Plug connector (L, M, KZ)				
			DIN terminal (D)				

Note 1) Use dry air at low temperatures.

Note 2) Use turbine oil Class 1 (ISO VG32), if lubricated.

Note 3) 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 8.3 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)

Note 4) Based on JIS C 0920. Note 5) Based on JIS C 4003.

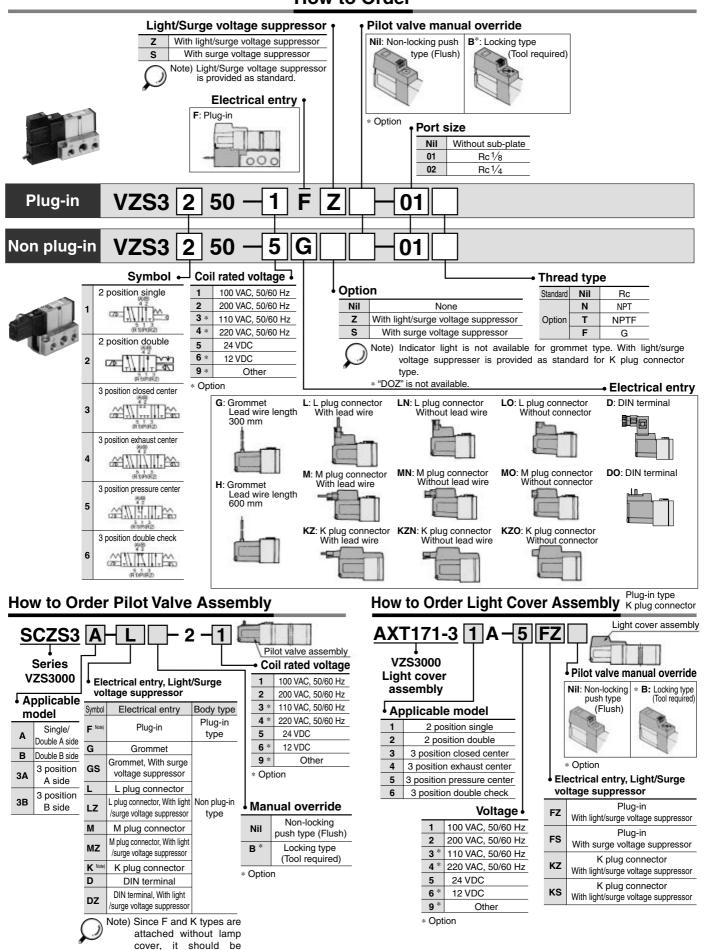
#### **Option Specifications**

- Pro-						
Coil rated voltage	24, 48, 110, 220 VAC (50/60 Hz)					
Con rated voltage	6, 12, 48 VDC					
Manual override	Locking type (Tool required)					
Option	With light/surge voltage suppressor Note)					

Note) Plug-in, K plug connector type is standard with light/surge voltage suppressor.



## **How to Order**



arranged separately.