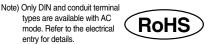
**Base Mounted** 

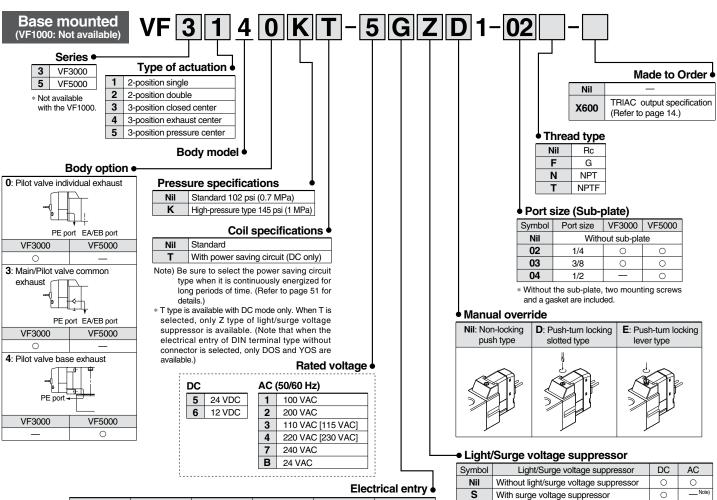
## **Pilot Operated 5 Port Solenoid Valve**

# Series VF3000/5000 Single Unit

( )



#### **How to Order Valve**



					Eleci	rical entry •
	Grommet	L-type plug connector	M-type plug connector	DIN terminal	DIN (EN175301-803) terminal	Conduit terminal
	G: Lead wire length 300 mm H: Lead wire ength 600 mm	(length 300 mm)	M: With lead wire (length 300 mm)  MN: Without lead wire		[IP65 compatible]  Y: With connector	[IP65 compatible]  T: Conduit terminal
	G: Lead wire length 300 mm H: Lead wire length 600 mm DC Without light/ surge voltage suppressor		MO:	DO: Without connector	YO: Without connector	
	(€	(€	(€	(€	(€	(€
2)	_	_	_	(€	(€	(€

When using the surge voltage suppressor type, residual voltage will remain. Refer to page 51 for details

With light/surge voltage suppressor

prevents surge voltage generation.

In the DIN terminal type, since a light is installed in the connector, DOZ, DOU, YOZ, YOU are not available.

With surge voltage suppressor (Non-polar

U With light/surge voltage suppressor (Non-polar) ○

Note) S type is not available with AC mode, since a rectifier

0

0

0

\* LN and MN types are with 2 sockets.

Z

**∕!∖** Caution

- \* Refer to page 49 when different length of lead wire for L/M-type plug connector is required.
- $\ast$  Refer to page 50 for details on the DIN (EN175301-803) terminal.
- Note 1) When using IP65, select the main/pilot valve common exhaust type or pilot valve base exhaust type.
- Note 2) With the same specifications as the DC type, all electrical entries for the 24 VAC type are CE marking compliant.

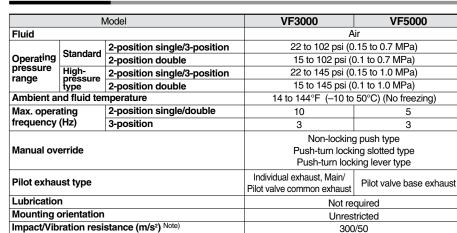
CE

compliant AC Note 2

DC

Dustproof (IP65\* for D, Y, T)

### **Specifications**



Note) Impact resistance:

Enclosure

No malfunction occurred when it is tested 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)

\* Based on IEC 60529. When using IP65, select the main/pilot valve common exhaust type or pilot valve base exhaust type.

## Made to Order (Refer to page 14 for details.)

Response Time

Symbol	Specification
X600	TRIAC output specification

Series VF3000

Series VF5000

### Solenoid Specifications

			Grommet (G), (H) DIN terminal (D)		
			L-type plug connector (L)	DIN (EN175301-803) terminal (Y)	
Electrical entry	'		M-type plug connector (M)	Conduit terminal (T)	
			G, H, L, M	D, Y, T	
Coil rated		DC	24, 12		
voltage (V)		AC (50/60 Hz)	24, 100, 110, 200, 220, 240		
Allowable voltage fluctuation			±10% of rated voltage*		
Power con-	DC	Standard	1.5 (With light: 1.55)	1.5 (With light: 1.75)	
sumption (W)		With power saving circuit	0.55 (With light only)	0.75 (With light only)	
		24 V	1.5 (With light: 1.55)	1.5 (With light: 1.75)	
	AC	100 V		1.55 (With light: 1.7)	
Apparent		110 V [115 V]			
power (VA)*		200 V	1.55 (With light: 1.65)		
		220 V [230 V]			
		240 V			
Surge voltage	supp	ressor	Diode (Non-polar type: Varistor)		
Indicator light			LED (Neon light is used for AC mode of D, Y, T.)		

- \* It is in common between 110 VAC and 115 VAC, and between 220 VAC and 230 VAC
- \* Allowable voltage fluctuation is -15% to +5% of the rated voltage for 115 VAC or 230 VAC.
- \* Since voltage drops due to the internal circuit in S, Z, T types (with power saving circuit), the allowable voltage fluctuation should be within the following range. 24 VDC: -7% to +10% 12 VDC: -4% to +10%

#### Response time (ms) (at 73psi (0.5 MPa)) Pressure Operating pressure Without light/surge With light/surge voltage suppressor Series Type of actuation specifications AC range psi (MPa) voltage suppressor S, Z type R, U type 22 to 102 (0.15 to 0.7) 20 45 45 Single 23 Standard 15 to 102 (0.1 to 0.7) Double 12 12 12 12 VF1000 2-position Single 22 to 145 (0.15 to 1.0) 23 48 26 48 High-pressure type Double 15 to 145 (0.1 to 1.0) 15 15 15 15 22 to 102 (0.15 to 0.7) Single 20 45 23 45 2-position Standard Double 15 to 102 (0.1 to 0.7) 12 12 12 12 22 to 102 (0.15 to 0.7) 3-position 30 55 33 55 VF3000 22 to 145 (0.15 to 1.0) Single 23 48 26 48 2-position High-pressure type 15 tp 145 (0.1 to 1.0) 15 Double 15 15 15 22 to 145 (0.15 to 1.0) 3-position 33 58 36 58 Single 22 to 102 (0.15 to 0.7) 30 55 33 55 2-position Standard Double 15 to 102 (0.1 to 0.7) 15 15 15 15 22 to 102 (0.15 to 0.7) 3-position 50 75 53 75 VF5000 22 to 145 (0.15 to 1.0) Single 33 58 36 58 2-position 15 to 145 (0.1 to 1.0) Double High-pressure type 18 18 18 18 22 to 145 (0.15 to 1.0) 53 78 56 78 3-position

Note) Based on dynamic performance test, JIS B 8375-1981. (Coil temperature: 68°F (20°C), at rated voltage)

