

# Direct Operated 3 Port Solenoid Valve **Series VX31/32/33**

For Air / Single Unit

## How to Order (Single Unit)

**DC** **VX3114** **01** **5G** **1**

**AC/Class B coil (Built-in full-wave rectifier type)** **VX3114** **01** **1GR1**

**Model** Refer to Table (1) shown below for availability.

**Orifice diameter** Refer to Table (1) shown below for availability.

**Valve / Body type**

0	N.C. / Single unit
2	N.O. / Single unit
4	COM. / Single unit

**Solenoid valve option** Refer to Table (2) shown below for availability.

**Port size** Refer to Table (1) shown below for availability.

**Suffix**

Nil	—
Z	Oil-free spec.

**Thread type**

Nil	Rc
T	NPTF
F	G
N	NPT

**Rated voltage**

1	100 VAC 50/60 Hz	6	12 VDC
2	200 VAC 50/60 Hz	7	240 VAC 50/60 Hz
3	110 VAC 50/60 Hz	8	48 VAC 50/60 Hz
4	220 VAC 50/60 Hz	J	230 VAC 50/60 Hz
5	24 VDC		

\* Refer to Table (3) shown below for availability.

Refer to page 23 for ordering coil only.

**Bracket**

Nil	None
B	With bracket

\* Bracket is neither mountable nor removable.

**Built-in full-wave rectifier type**

**Electrical entry (AC/DC)**

**G** -Grommet  
**GS**-With grommet surge voltage suppressor

**C** -Conduit

**T** -With conduit terminal  
**TS**-With conduit terminal and surge voltage suppressor  
**TL** -With conduit terminal and light  
**TZ**-With conduit terminal, surge voltage suppressor and light

**D** -DIN terminal  
**DS** -DIN terminal with surge voltage suppressor  
**DL** -DIN terminal with light  
**DZ** -DIN terminal with surge voltage suppressor and light  
**DO** -For DIN terminal (without connector, gasket is included.)

Connector

\* DIN type is available with class B only.

**Table (1) Model – Orifice Diameter – Port Size**

Solenoid valve model			Orifice symbol (diameter)			
Model	VX31	VX32	VX33	1 (1.5 mmø)	2 (2.2 mmø)	3 (3 mmø)
Port symbol (Port size)	01 (1/8)	—	—	●	●	●
	02 (1/4)	—	—	●	●	●
	—	02 (1/4)	02 (1/4)	—	●	●
	—	03 (3/8)	03 (3/8)	—	●	●

**Table (2) Solenoid Valve Option**

Option symbol	Seal material		Body material/ Shading coil material	Guide pin material	Coil insulation type	Note (Note)
	Main valve poppet	Fixed sealant				
Nil			C37			—
G	NBR	NBR	Stainless steel			
M			Stainless steel	PPS	B	
V	FKM	FKM	C37			Non-leak (10 <sup>-6</sup> Pa·m <sup>3</sup> /sec), Medium vacuum (0.1 Pa.abs), Oil-free

Note) The leakage amount (10<sup>-6</sup> Pa·m<sup>3</sup>/sec) for the "V" and "M" option are values when the differential pressure is 0.1 MPa.

**Table (3) Rated Voltage – Electrical Option**

Rated voltage			Class B		
AC/DC	Voltage symbol	Voltage	S With surge voltage suppressor	L With light	Z With light and surge voltage suppressor
AC	1	100 V		●	
	2	200 V		●	
	3	110 V		●	
	4	220 V	— (Note)	●	— (Note)
	7	240 V		—	
	8	48 V		—	
DC	J	230 V		—	
	5	24 V	●	●	●
	6	12 V	●	—	—

Note 1) Option S, Z are not available as surge voltage suppressor is integrated into the AC/Class B coil, as a standard.

\* Class H coil is not available.