For Oil / Single Unit

How to Order (Single Unit)



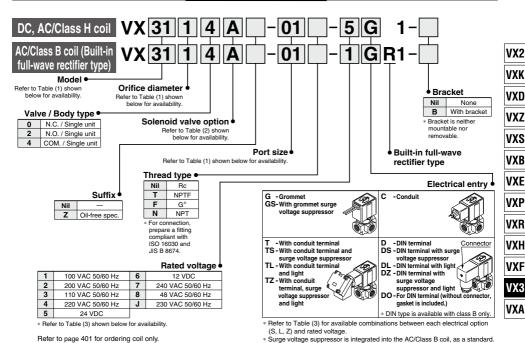


Table (1) Model/Orifice Diameter/Port Size

Solenoid valve model			Orifice symbol (Diameter)			
VV21	WY22	WY22	1	2	3	4
VASI	V A32	VASS	(1.5 mmø)	(2.2 mmø)	(3 mmø)	(4 mmø)
01 (1/8)	_	_	•	•	•	_
02 (1/4)	_	_	•	•	•	_
-	02 (1/4)	02 (1/4)	_	•	•	•
_	03 (3/8)	03 (3/8)	_	•	•	•
	VX31 01 (1/8) 02 (1/4)	VX31 VX32 01 (1/8) — 02 (1/4) —	VX31 VX32 VX33 01 (1/8) — — 02 (1/4) — — — 02 (1/4) 02 (1/4)	VX31 VX32 VX33 1 (1.5 mme) 01 (1/8) — — ● 02 (1/4) — — ● — 02 (1/4) 02 (1/4) — —	VX31 VX32 VX33 1 (1.5 mme) (2.2 mme) 01 (1/8) — — ● 02 (1/4) — — ● — 02 (1/4) 02 (1/4) — ●	VX31 VX32 VX33 1 (2.2 mme) 2 (3 mme) 01 (1/8) — — — — 02 (1/4) — — — — — 02 (1/4) 02 (1/4) — —

Table (2) Solenoid Valve Ontion

Table (2) Solehold Valve Option							
0-4:	Seal material		Body material/	Outdo sin	Coil		
Option symbol	Main valve poppet	Fixed sealant	Shading coil material	Guide pin material	insulation type		
Α			Brass (C37)	PPS	В		
Н	FKM	FKM	Stainless steel	FFS	В		
D] FKIM	LVM	Brass (C37)/Cu	Stainless	н		
N	1		Stainless steel/An	steel	"		

Table (3) Pated Voltage

Table (3) Rated Voltage – Electrical Option						
Rated voltage			Class B			
, n	ated voil	age	S	L	Z	
AC/ DC	Voltage symbol	Voltage	With surge voltage suppressor	With light	With light and surge voltage suppressor	
	1	100 V	Note)	•		
	2	200 V		•		
	3	110 V		•		
AC	4	220 V		•	Note)	
	7	240 V		_		
	8	48 V		_		
	J	230 V		_		
DC	5	24 V	•	•	•	
DC	6	12 V	•	_	_	

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

Rated voltage			Class H			
n	aleu voil	age	S L		Z	
AC/ DC	Voltage symbol	Voltage	With surge voltage suppressor	With light	With light and surge voltage suppressor	
	1	100 V	•	•	•	
	2	200 V	•	•	•	
	3	110 V	•	•	•	
AC	4	220 V	•	•	•	
	7	240 V	•	_	_	
	8	48 V	•	_	_	
	J	230 V	•	_	_	
DC	5	24 V	DC specification is not available			
ы	6	12 V				

VVX31/32/33 Series

For Oil /Manifold

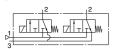
Solenoid Valve for Manifold / Valve Specifications

N.C. N.O.

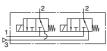




Symbol



Symbol



Symbol



Note) Symbols for N.C. and N.O. types

The symbols show that the N.C. type: port 3 and N.O. type: port 1 are in a blocked state (T).

However, use each port pressure in the state shown below.

N.C. type: Pressure at port $1 \ge Pressure$ at port $2 \ge Pressure$ at port 3

N.O. type: Pressure at port 3 ≥ Pressure at port 2 ≥ Pressure at port 1

Orifice diameter (mmø)	Model	Max. operating pressure differential Note 2) (MPa)			Flow rate characteristics Note 1)		Max. system pressure
(1111119)		N.C.	N.O.	COM.	Kv	Cv converted	(MPa)
1.5	VX311□-00	1	1	0.7	0.07	0.08	
	VX312□-00	0.7	0.5	0.4	0.14	0.16	
2.2	VX322□-00	1.2	1	0.7	0.16	0.19	
	VX332□-00	1.6	1.6	1			
	VX313□-00	0.3	0.3	0.2	0.21	0.24	2.0
3	VX323□-00	0.6	0.5	0.3	0.28	0.33	
	VX333□-00	1	0.9	0.6	0.26	0.33	
4	VX324□-00	0.3	0.25	0.2	0.43 0.50	0.50	٦
4	VX334□-00	0.5	0.4	0.3	0.43	0.50	

Note 1) The flow rate characteristics of this product have variations.

When the highly precise flow control is required according to the system to be used, select an orifice diameter 1.3 times larger than that shown above and install a restrictor on the downstream side of the solenoid valve to make the adjustment.

Note 2) Refer to "Glossary of Terms" on page 403 for details on the max. operating pressure differential and the max. system pressure.

Fluid and Ambient Temperature

	Fluid tempe	Ambient temperature	
Power source	Solenoid valve		
	Α	D	(°C)
AC	-5 Note) to 60	-5 Note) to 120	-20 to 60
DC	-5 Note) to 40	_	-20 to 40

Note) Dynamic viscosity: 50 mm²/s or less

® 390

Valve Leakage Rate

Internal Leakage / External Leakage

Seal material	Max. operating pressure differential	Leakage rate (Oil)
FKM	From 0 to less than 1 MPa	0.1 cm³/min or less
FRIVI	1 MPa or more	0.2 cm³/min or less