

Direct Operated 2 Port Solenoid Valve **Series VX21/22/23**



For Oil Single Unit



RoHS

How to Order

VX2 1 3 A A

Fluid

3 Oil

Common Specifications

Seal material	FKM
Coil insulation type	Class B
Thread type	Rc

Coil size/Valve type

Size	Symbol	Valve type
Size 1	1	N.C.
	4	N.O.

Body material/Port size/Orifice diameter

Symbol	Body material	Port size	Orifice diameter
A	C37	1/8	2
B			3
C			5
D			2
E	Stainless steel	1/4	3
F			5
H			2
J			3
K	Stainless steel	1/8	5
L			2
M			3
N			5

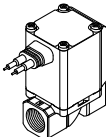
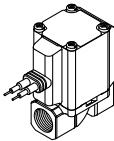
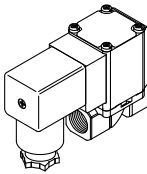
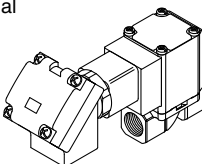
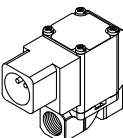
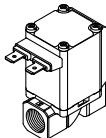
Size 2	2	N.C.
	5	N.O.

A	C37	1/4	4
B			7
D			4
E			7
H	Stainless steel	1/4	4
J			7
L			4
M			7

Size 3	3	N.C.
	6	N.O.

A	C37	1/4	5
B			8
C			10 (N.C. only)
D			5
E	Stainless steel	3/8	8
F			10 (N.C. only)
G			10 (N.C. only)
H			5
J	Stainless steel	1/4	8
K			10 (N.C. only)
L			5
M			8
N	Stainless steel	3/8	10 (N.C. only)
P			10 (N.C. only)

Voltage/Electrical entry

Symbol	Voltage	Electrical entry
A	24 VDC	Grommet 
B	100 VAC	Grommet (With surge voltage suppressor) 
C	110 VAC	
D	200 VAC	
E	230 VAC	
F	24 VDC	
G	24 VDC	DIN terminal (With surge voltage suppressor) 
H	100 VAC	
J	110 VAC	
K	200 VAC	
L	230 VAC	
M	24 VDC	Conduit terminal (With surge voltage suppressor) 
N	100 VAC	
P	110 VAC	
Q	200 VAC	
R	230 VAC	
S	24 VDC	Conduit (With surge voltage suppressor) 
T	100 VAC	
U	110 VAC	
V	200 VAC	
W	230 VAC	
Y	24 VDC	Faston terminal 
Z	Other voltages	

Specifications

For Air

For Medium Vacuum

For Water

For Oil

For Steam

Construction

Dimensions

For other special options, refer to page 20.

Special voltage	24 VAC
	48 VAC
	220 VAC
	240 VAC
	12 VDC
DIN terminal with light	
Conduit terminal with light	
Without DIN connector	
Oil-free	
G thread	
NPT thread	
With bracket	

Dimensions → Page 26 (Single unit)

Series VX21/22/23



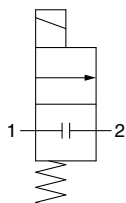
For Steam Single Unit

* Can be used with heated water.

Model/Valve Specifications

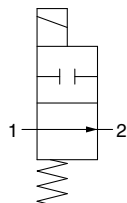
Passage symbol

N.C.



Passage symbol

N.O.



Refer to "Glossary of Terms" on page 31 for passage symbols.

Normally Closed (N.C.)

Size	Port size	Orifice diameter (mmø)	Model	Flow-rate characteristics		Maximum operating pressure differential (MPa)	Weight (g) ^{Note)}
				AV (x 10 ⁻⁶ m ²)	Conversion Cv		
1	1/8, 1/4	2	VX215	5.5	0.23	1	300
		3		10.0	0.42	0.6	300
		5		15.0	0.63	0.2	300
2	1/4	4	VX225	15.0	0.63	1	460
		7		26.0	1.08	0.15	460
3	1/4, 3/8	5	VX235	18.0	0.75	1	580
		8		38.0	1.58	0.3	580
		10		53.0	2.21	0.1	580
	1/2	10		53.0	2.21	0.1	630

Normally Open (N.O.)

Size	Port size	Orifice diameter (mmø)	Model	Flow-rate characteristics		Maximum operating pressure differential (MPa)	Weight (g) ^{Note)}
				AV (x 10 ⁻⁶ m ²)	Conversion Cv		
1	1/8, 1/4	2	VX245	5.5	0.23	0.9	320
		3		10.0	0.42	0.45	320
		5		15.0	0.63	0.2	320
2	1/4	4	VX255	15.0	0.63	0.8	490
		7		26.0	1.08	0.15	490
3	1/4, 3/8	5	VX265	18.0	0.75	0.8	620
		8		38.0	1.58	0.3	620

Note) Weight of grommet type. Add 10 g for conduit type, 60 g for conduit terminal type respectively.

Fluid and Ambient Temperature

Fluid temperature (°C)	Ambient temperature (°C)
Steam: 183 or less	-20 to 60
Heated water: 99 or less	

Valve Leakage

Internal Leakage

Fluid	Seal material	Leakage rate
Steam	FKM for high temperature	1.0 cm ³ /min or less
Heated water		0.1 cm ³ /min or less

External Leakage

Fluid	Seal material	Leakage rate
Steam	FKM for high temperature	1.0 cm ³ /min or less
Heated water		0.1 cm ³ /min or less