



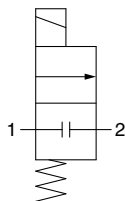
For Water Single Unit

* This valve can also be used with air.
(Refer to the valve specifications for air.)

Model/Valve Specifications

Symbol

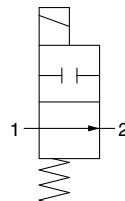
N.C.



When the valve is closed, flow is blocked from port 1 to port 2.
However, if the pressure in port 2 is higher than port 1, the valve will not be able to block the fluid and it will flow from port 2 to port 1.

Symbol

N.O.



When the valve is closed, flow is blocked from port 1 to port 2.
However, if the pressure in port 2 is higher than port 1, the valve will not be able to block the fluid and it will flow from port 2 to port 1.

Normally Closed (N.C.)

Size	Port size	Orifice diameter (mmø)	Model	Flow-rate characteristics		Maximum operating pressure differential psi (MPa)	Max. system pressure psi (MPa)	Weight (g) ^(Note)
				AV (x 10 ⁻⁶ m ²)	Conversion Cv			
1	1/8, 1/4	2	VX212	5.5	0.23	145 (1)	145 (1.0)	300
		3		10.0	0.42	87 (0.6)		300
		5		15.0	0.63	29 (0.2)		300
2	1/4, 3/8	4	VX222	15.0	0.63	145 (1)		460
		7		26.0	1.08	22 (0.15)		460
		5	VX232	18.0	0.75	145 (1)		580
3	1/4, 3/8	8		38.0	1.58	44 (0.3)		580
		10		53.0	2.21	15 (0.1)		580
		10		53.0	2.21	15 (0.1)		630

Normally Open (N.O.)

Size	Port size	Orifice diameter (mmø)	Model	Flow-rate characteristics		Maximum operating pressure differential psi (MPa)	Max. system pressure psi (MPa)	Weight (g) ^(Note)
				AV (x 10 ⁻⁶ m ²)	Conversion Cv			
1	1/8, 1/4	2	VX242	5.5	0.23	131 (0.9)	145 (1.0)	320
		3		10.0	0.42	65 (0.45)		320
		5		15.0	0.63	29 (0.2)		320
2	1/4, 3/8	4	VX252	15.0	0.63	116 (0.8)		490
		7		26.0	1.08	22 (0.15)		490
		5	VX262	18.0	0.75	116 (0.8)		620
3	1/4, 3/8	8		38.0	1.58	44 (0.3)		620

Note) Weight of grommet type. Add 10 g for conduit type, 30 g for DIN terminal type, 60 g for conduit terminal type respectively.

• Refer to "Glossary of Terms" on page 37 for details on the maximum operating pressure differential.

Fluid and Ambient Temperature

Fluid temperature °F (°C)	Ambient temperature °F (°C)
34 to 140 (1 to 60) ^{Note)}	- 4 to 140 (-20 to 60)

Note) With no freezing

Valve Leakage Rate

Internal Leakage

Seal material ^{Note 2)}	Leakage rate (Water) ^{Note 1)}
NBR (FKM)	0.1 cm ³ /min or less

External Leakage

Seal material ^{Note 2)}	Leakage rate (Water) ^{Note 1)}
NBR (FKM)	0.1 cm ³ /min or less

Note 1) Leakage is the value at ambient temperature 68°F (20°C).

Note 2) For seal material/FKM, refer to "Other Options" on page 21 for the selection.

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



For Water Single Unit



® Note) Refer to the table on page 25 for UL-compliant.

RoHS

How to Order (Single Unit)

VX2 1 2 A A

Fluid

2 Water

Common Specifications

Seal material	NBR
Coil insulation type	Class B
Thread type	Rc

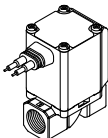
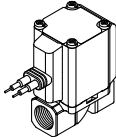
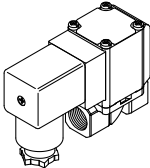
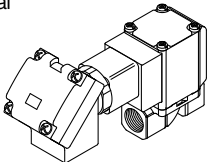
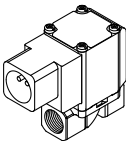
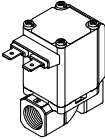
Coil size/Valve type

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			3
F	Stainless steel	1/4	5
H			2
J			3
K			5
L			2
M	Stainless steel	1/4	3
N			5

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	DIN terminal (With surge voltage suppressor) 
G	24 VDC	
H	100 VAC	
J	110 VAC	
K	200 VAC	Conduit terminal (With surge voltage suppressor) 
L	230 VAC	
M	24 VDC	
N	100 VAC	
P	110 VAC	Conduit (With surge voltage suppressor) 
Q	200 VAC	
R	230 VAC	
S	24 VDC	
T	100 VAC	Flat terminal 
U	110 VAC	
V	200 VAC	
W	230 VAC	
Y	24 VDC	
Z	Other voltages	

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

A	C37	1/4	4
B			7
D			4
E			7
H			4
J	Stainless steel	1/4	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			8
F	Stainless steel	3/8	10 (N.C. only)
G			10 (N.C. only)
H			5
J			8
K			10 (N.C. only)
L	Stainless steel	1/4	5
M			8
N			10 (N.C. only)
P			10 (N.C. only)

For special options, refer to pages 21 to 23.

Special voltage	24 VAC
	48 VAC
	220 VAC
	240 VAC
	12 VDC
DIN terminal with light	
Conduit terminal with light	
Without DIN connector	

Applicable to deionized water (Seal material: FKM)
Seal material: EPDM
Oil-free
G thread
NPT thread
With bracket
Mounting holes on the bottom side of the body
Special electrical entry direction