

How to Order

VXD2 **3** **2** **A** **A**



Size—Valve type

Symbol	Size	Valve type	Symbol	Body material	Port size	Orifice diameter	
3	8A 10A 15A	N.C.	A	C37	1/4	10	
			B		3/8		
			C		1/2		
			D		1/4		
A		N.O.	E	Stainless steel	3/8		10
			F		1/2		
4	10A 15A	N.C.	G	C37	3/8	15	
H			1/2				
B		N.O.	J	Stainless steel	3/8		15
			K		1/2		
5	20A	N.C.	L	C37	3/4	20	
C		N.O.	M				Stainless steel
6	25A	N.C.	N	C37	1	25	
D		N.O.	P				Stainless steel
7	32A	N.C.	Q	CAC408	32A Flange	35	
E		N.O.	R				CAC408
8	40A	N.C.	R	CAC408	40A Flange	40	
F		N.O.	S				CAC408
9	50A	N.C.	S	CAC408	50A Flange	50	
G		N.O.					

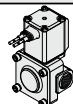
Body material/Port size/Orifice diameter

Common Specifications

Seal material	NBR
Coil insulation type	Class B
Thread type	Rc*

* For body size 32A or more, the ports will be the flange type.

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 and electrical option	

For other special options, refer to page 133.

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	
Special electrical entry direction	

VXD Series



For Oil

* Possible to use this for air and water.
Note that the maximum operating pressure differential and flow rate characteristics should be within the specifications of the fluid used.

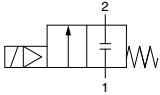
⚠ When the fluid is oil.

The kinematic viscosity must not exceed 50 mm²/s. The special construction of the armature adopted in the built-in full-wave rectifier type gives an improvement in OFF response by providing clearance on the absorbed surface when it is switched ON.

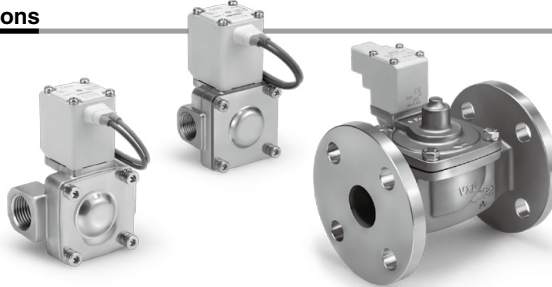
Model/Valve Specifications

N.C.

Symbol



Refer to "Glossary of Terms" on page 156 for symbol.



Normally Closed (N.C.)

Body material	Port size	Orifice diameter (mm)	Model	Min. operating pressure differential <small>Note 1, 3)</small> (MPa)	Max. operating pressure differential <small>Note 3)</small>		Flow rate characteristics		Max. system pressure <small>Note 3)</small> (MPa)	Weight <small>Note 2)</small> (g)	
					AC	DC	Kv	Conversion Cv			
Stainless steel, C37	1/4 (8A)	10	VXD233	0.02	0.5	0.4	1.6	1.9	1.5	480	
	3/8 (10A)						2.0	2.4		480	
	1/2 (15A)						2.0	2.4		480	
	3/8 (10A)	15	VXD243		3.9	4.5	720				
	1/2 (15A)				4.6	5.5	720				
	3/4 (20A)				8.2	9.5	840				
	1 (25A)	25	VXD263		0.7	0.7	11.0	13		1360	
	CAC408	32A Flange	35				VXD273	0.03			19.6
40A Flange		40	VXD283	26.4			31				6800
50A Flange		50	VXD293	42.8	49	8400					

Note 1) Be aware that even if the pressure differential is above the minimum operating pressure differential when the valve is closed, the pressure differential may fall below the minimum operating pressure differential when the valve opens, depending on the power of the supply source (pumps, compressors, etc.) or the type of pipe restrictions.

Note 2) Weight of grommet type. Add 10 g for conduit type, 30 g for DIN terminal type, 60 g for conduit terminal type respectively.

Note 3) Refer to "Glossary of Terms" on page 156 for details on the minimum operating pressure differential, maximum operating pressure differential, maximum system pressure.

Fluid and Ambient Temperature

Fluid temperature (°C)	Ambient temperature (°C)
-5 <small>Note)</small> to 60	-20 to 60

Note) Kinematic viscosity: 50 mm²/s or less

Valve Leakage Rate

Internal Leakage

Seal material	Leakage rate (Oil) <small>Note)</small>	
	VXD23 to 26 (8A to 25A)	VXD27 to 29 (32A to 50A)
FKM	0.2 cm ³ /min or less	1 cm ³ /min or less

External Leakage

Seal material	Leakage rate (Oil) <small>Note)</small>	
	VXD23 to 26 (8A to 25A)	VXD27 to 29 (32A to 50A)
FKM	0.1 cm ³ /min or less	0.1 cm ³ /min or less

Note) Leakage is the value at ambient temperature 20°C.