

Pilot Operated 2 Port Solenoid Valve

Series **VXD21/22/23**

For Air, Water, Oil



VX2

VXD

VXZ

VXE

VXP

VXR

VXH

VXF

VX3

VXA

VCH□

VDW

VQ

LVM

VCA

VCB

VCL

VCS

VCW

Solenoid valves for various fluids used in a wide variety of applications

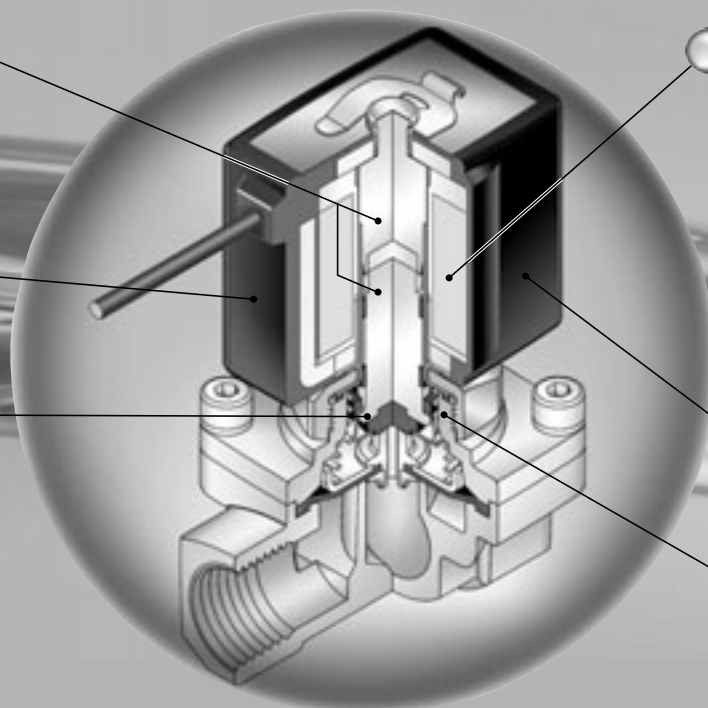
Improved corrosion resistance

Special magnetic material adopted

Enclosure: IP65

Low-noise construction

Special construction enables to reduce the metal noise. (DC spec.)



Reduced power consumption

(DC spec.)

VXD21: 6 w

→ **4.5 W** (VXD2140 to 2150)

→ **5.5 W** (VXD2130)

VXD22: 8 w → **7 W**

VXD23: 11.5 w

→ **10.5 W**

Flame resistance

UL94V-0 conformed

Flame resistant mold coil material

Improved maintenance performance

Maintenance is performed easily due to the threaded assembly.

Pilot Operated 2 Port Solenoid Valve

Series VXD21/22/23

For Air, Water, Oil

■ Valve

Normally closed (N.C.)
Normally open (N.O.) Note)

Note) Except VXD2130

■ Solenoid Coil

Coil: Class B, Class H

■ Rated Voltage

100 VAC, 200 VAC, 110 VAC,
220 VAC, 240 VAC, 230 VAC,
48 VAC, 24 VDC, 12 VDC

■ Material

Body Brass (C37)/CAC407,
Stainless steel
Seal NBR, FKM, EPDM

■ Electrical Entry

- Grommet
- Conduit
- DIN terminal
- Conduit terminal



Model	VXD2130	VXD214 ²	VXD215 ²	VXD226 ²
Orifice dia.	10 mmø	●	—	—
	15 mmø	—	●	—
	20 mmø	—	—	●
	25 mmø	—	—	—
Port size (Thread)	1/4 3/8 1/2	3/8 1/2	3/4	1

Model	VXD227 ²	VXD238 ²	VXD239 ²
Orifice dia.	35 mmø	●	—
	40 mmø	—	●
	50 mmø	—	—
Port size (Flange)	32A	40A	50A

Contents

For Air	P.64
For Water	P.66
For Oil	P.68
Construction	P.70
Dimensions	P.72
Replacement Parts	P.75

VX2

VXD

VXZ

VXE

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VXR

VXH

VXF

VX3

VXA

VCH□

VDW

VQ

LVM

VCA

VCB

VCL

VCS

VCW

Series VXD21/22/23

Common Specifications

Standard Specifications

Valve specifications	Valve construction		Pilot operated 2 port diaphragm type
	Withstand pressure (MPa)		8A to 25A: 5.0, 32A to 50A: 2.0
	Body material		Brass (C37), Stainless steel, CAC407
	Seal material		NBR, FKM, EPDM
	Enclosure		Dusttight, Low jetproof (equivalent to IP65) ^{Note 1)}
	Environment		Location without corrosive or explosive gases
Coil specifications	Rated voltage	AC (Class B coil, Built-in full-wave rectifier type)	100 VAC, 200 VAC, 110 VAC, 220 VAC, 230 VAC, 240 VAC, 48 VAC
		AC (Class B coil/H coil) ^{Note 2)}	
		DC (Class B coil only)	
	Allowable voltage fluctuation		±10% of rated voltage
	Allowable leakage voltage	AC (Class B coil, Built-in full-wave rectifier type)	10% or less of rated voltage
		AC (Class B coil/H coil) ^{Note 2)}	20% or less of rated voltage
		DC (Class B coil only)	2% or less of rated voltage
	Coil insulation type		Class B, Class H

Note 1) Electrical entry: Grommet with surge voltage suppressor (GS) has a rating of IP40.

Note 2) For the AC (Class B coil) of the VXD2130, built-in full-wave rectifier type is only applicable.

⚠ Be sure to read “Specific Product Precautions.”

Solenoid Coil Specifications

Normally Closed (N.C.)

DC Specification

Model	Power consumption (W)	Temperature rise (°C) ^{Note)}
VXD2130	5.5	50
VXD2140/2150	4.5	45
VXD2260/2270	7	45
VXD2380/2390	10.5	60

Note) The values at ambient temperature of 20°C and when the rated voltage is applied.

AC Specification (Class B coil, Built-in full-wave rectifier type)

Model	Apparent power (VA)*	Temperature rise (°C) ^{Note)}
VXD21	7	55
VXD22	9.5	60
VXD23	12	65

* There is no difference in apparent power due to the inrush, energization, or frequency of the power, since the AC (Class B coil, Built-in full-wave rectifier type) uses a rectifying circuit.

Note) The values at ambient temperature of 20°C and when the rated voltage is applied.

AC Specification

Model	Frequency (Hz)	Apparent power (VA)		Temperature rise (°C) ^{Note)}
		Inrush	Energized	
VXD21	50	19	10	50
	60	16	8	45
VXD22	50	43	20	65
	60	35	17	60
VXD23	50	62	32	65
	60	52	27	60

Note) The values at ambient temperature of 20°C and when the rated voltage is applied.

Normally Open (N.O.)

DC Specification

Model	Power consumption (W)	Temperature rise (°C) ^{Note)}
VXD2142/2152	4.5	45
VXD2262/2272	7	45
VXD2382/2392	10.5	60

Note) The values at ambient temperature of 20°C and when the rated voltage is applied.

AC Specification (Class B coil, Built-in full-wave rectifier type)

Model	Apparent power (VA)*	Temperature rise (°C) ^{Note)}
VXD21	7	55
VXD22	9.5	60
VXD23	12	65

* There is no difference in apparent power due to the inrush, energization, or frequency of the power, since the AC (Class B coil, Built-in full-wave rectifier type) uses a rectifying circuit.

Note) The values at ambient temperature of 20°C and when the rated voltage is applied.

AC Specification

Model	Frequency (Hz)	Apparent power (VA)		Temperature rise (°C) ^{Note)}
		Inrush	Energized	
VXD21	50	22	11	55
	60	18	8	50
VXD22	50	46	20	65
	60	38	18	60
VXD23	50	64	32	65
	60	54	27	60

Note) The values at ambient temperature of 20°C and when the rated voltage is applied.

Applicable Fluid Check List

Pilot Operated 2 Port Solenoid Valve Series VXD21/22/23

All Options (8A to 25A)



Refer to pages 64, 66, and 68 for specifications and models.



VXD2 ³_{1 4 0}_{2 5 2} ¹₆ - - ¹_{R1} -

Option symbol

Fluid and application	Option symbol	Seal material	Body/Shading coil material ^{Note 6)}	Push rod (N.O. only) material ^{Note 5)}	Coil insulation type ^{Note 3)}	Note
Air	Nil	NBR	Brass (C37)/–	PPS	B	Select the built-in full-wave rectifier type for the AC spec.
	G		Stainless steel/–			
Water	Nil	NBR	Brass (C37)/Cu		B	
	G		Stainless steel/Ag			
Heated water	E	EPDM	Brass (C37)/Cu		H	
	P		Stainless steel/Ag			
Oil ^{Note 2)}	A	FKM	Brass (C37)/Cu		B	
	H		Stainless steel/Ag			
	D		Brass (C37)/Cu		H	
	N		Stainless steel/Ag			
High corrosive spec., Oil-free	L ^{Note 1)}	FKM	Stainless steel/Ag		B	
Copper-free, Fluorine-free ^{Note 4)}	J	EPDM	Stainless steel/Ag		B	
	P		Stainless steel/Ag		H	
Other combinations	B	EPDM	Brass (C37)/Cu		B	

Note 1) "L" option is for oil-free treatment.

Note 2) The dynamic viscosity of the fluid 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.

Select the DC spec. or AC spec. built-in full-wave rectifier type when the dynamic viscosity is higher than water or when the OFF response is prioritized.

Note 3) Coil insulation type Class H: AC spec. only

Note 4) The nuts (non-wetted parts) are nickel-plated on the Brass (C37) material.

Note 5) N.O. for VXD2130 is not available.

Note 6) There is no shading coil attached to the DC spec. or AC spec built-in full-wave rectifier type.

* Please contact SMC when fluids other than above are used.

All Options (32A to 50A)



Refer to pages 64, 66, and 68 for specifications and models.

VXD2 ⁷_{2 8 0}_{3 9 2} ¹₆ - - ¹_{R1} -

Option symbol



Fluid and application	Option symbol	Seal material	Body/Shading coil material ^{Note 4)}	Push rod (N.O. only) material	Coil insulation type ^{Note 3)}	Note
Air	Nil	NBR	CAC407/—	PPS	B	Select the built-in full-wave rectifier type for the AC spec.
Water	Nil	NBR	CAC407/Cu		B	
Heated water ^{Note 1)}	E	EPDM	CAC407/Cu		H	
Oil ^{Note 2)}	A	FKM	CAC407/Cu		B	
	D		CAC407/Cu		H	
Other combination	B	EPDM	CAC407/Cu		B	

Note 1) The highest operating temperature of 32A to 50A is 80°C.

Note 2) The dynamic viscosity of the fluid 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.

Select the DC spec. or AC spec built-in full-wave rectifier type when the dynamic viscosity is higher than water or when the OFF response is prioritized.

Note 3) Coil insulation type Class H: AC spec. only

Note 4) There is no shading coil attached to the DC spec. or AC spec built-in full-wave rectifier type.

* Please contact SMC when fluids other than above are used.

VX2

VXD

VXZ

VXE

VXP

VXR

VXH

VXF

VX3

VXA

VCH

VDW

VQ

LVM

VCA

VCB

VCL

VCS

VCW

Series VXD21/22/23

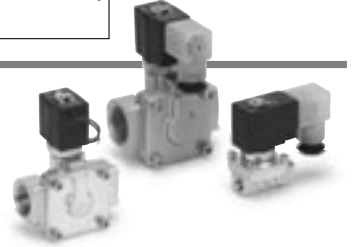
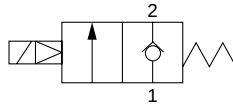
For Air

(Inert gas)

Model/Valve Specifications

Normally closed (N.C.)

Passage symbol



Port size		Orifice dia. (mmø)	Model	Min. operating pressure differential (MPa) ^{Note 1)}	Max. operating pressure differential (MPa)		Flow characteristics			Max. system pressure (MPa)	Mass (g) ^{Note 2)}
					AC	DC	C	b	Cv		
Thread (Nominal size)	1/4 (8A)	10	VXD2130-02	0.02	0.9	0.7	8.5	0.35	2.0	1.5	420
	3/8 (10A)	10	VXD2130-03				9.2		2.4		
		15	VXD2140-03		1.0	1.0	18.0		5.0		
	1/2 (15A)	10	VXD2130-04				9.2		2.4		
		15	VXD2140-04		0.9	0.7	20.0		5.5		
	3/4 (20A)	20	VXD2150-06				38.0	0.30	9.5		

Port size		Orifice dia. (mmø)	Model	Min. operating pressure differential (MPa) ^{Note 1)}	Max. operating pressure differential (MPa)	Flow characteristics	Max. system pressure (MPa)	^{Note 2)} Mass (g)
					AC, DC	Effective area (mm²)		
Thread (Nominal size)	1 (25A)	25	VXD2260-10	0.02	1.0	225	1.5	1650
Flange	32A	35	VXD2270-32	0.03		415		5400
	40A	40	VXD2380-40			560		6800
	50A	50	VXD2390-50			880		8400



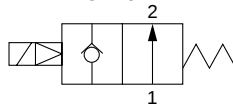
Note 1) Be aware that even if the pressure difference is above the Min. operating pressure differential when the valve is closed, the pressure difference may fall below the Min. operating pressure differential when the valve opens depending on the power of the supply source (pumps, compressors etc.)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

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

• Refer to "Glossary of Terms" on page 26 for details on the max. operating pressure differential and the max. system pressure.

Normally open (N.O.)

Passage symbol



Port size		Orifice dia. (mmø)	Model	Min. operating pressure differential (MPa) ^{Note 1)}	Max. operating pressure differential (MPa)		Flow characteristics			Max. system pressure (MPa)	Mass (g) ^{Note 2)}
					AC, DC		C	b	Cv		
Thread (Nominal size)	3/8 (10A)	15	VXD2142-03	0.02	0.7		18.0	0.35	5.0	1.5	690
	1/2 (15A)		VXD2142-04				20.0		5.5		
	3/4 (20A)	20	VXD2152-06				38.0	0.30	9.5		

Port size		Orifice dia. (mmø)	Model	Min. operating pressure differential (MPa) ^{Note 1)}	Max. operating pressure differential (MPa)	Flow characteristics	Max. system pressure (MPa)	^{Note 2)} Mass (g)
					AC, DC	Effective area (mm²)		
Thread (Nominal size)	1 (25A)	25	VXD2262-10	0.02	0.7	225	1.5	1690
Flange	32A	35	VXD2272-32	0.03		415		5400
	40A	40	VXD2382-40			560		6800
	50A	50	VXD2392-50			880		8400



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

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

• Refer to "Glossary of Terms" on page 26 for details on the max. operating pressure differential and the max. system pressure.

Fluid and Ambient Temperature

Power source	Fluid temperature (°C)	Ambient temperature (°C)
	Solenoid valve option symbol	
	Nil, G	
AC	−10 ^{Note)} to 60	−10 to 60
DC	−10 to 60	

Note) Dew point temperature: -10°C or less

Valve Leakage Rate

Internal Leakage

Seal material	Leakage rate (Air)	
	1/4 to 1	32A to 50A
NBR, FKM	2 cm ³ /min or less	10 cm ³ /min or less

External Leakage

Seal material	Leakage rate (Water)	
	1/4 to 1	32A to 50A
NBR, FKM	0.1 cm ³ /min or less	0.1 cm ³ /min or less

How to Order

DC VXD 21 3 0 - 02 - 5 G 1 -

AC VXD 21 3 0 - 02 - 1 G R1 -

Model
Refer to the table (1) shown below for availability.

Orifice diameter
Refer to the table (1) shown below for availability.

Valve/Body configuration

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

* N.O. for VXD2130 is not available.

Solenoid valve option
Refer to the table (2) shown below for availability.

Port size
Refer to the table (1) shown below for availability.

Thread type

Nil	Rc
T	NPTF
F	G
N	NPT

Suffix

Nil	—
Z	Oil-free spec.

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 the table (3) shown below for availability.

Electrical entry

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.)

* DIN type is available with class B only.

Bracket

Nil	None
B	With bracket

* Bracket is not removable.

Built-in full-wave rectifier type

Connector

Table (1) Model/Orifice Diameter/Port Size

Normally closed (N.C.)

Solenoid valve (Port size)				Orifice symbol (Diameter)							Material		
Model		VXD21	VXD22	VXD23	3 (10 mmø)	4 (15 mmø)	5 (20 mmø)	6 (25 mmø)	7 (35 mmø)	8 (40 mmø)	9 (50 mmø)	Body	Seal
Port no. (Port size)	Thread	02 (1/4)	—	—	●	—	—	—	—	—	—	Brass (C37), Stainless steel	NBR
		03 (3/8)	—	—	●	●	—	—	—	—	—		
		04 (1/2)	—	—	●	●	—	—	—	—	—		
		06 (3/4)	—	—	—	—	●	—	—	—	—		
	Flange	—	10 (1)	—	—	—	—	●	—	—	—		
		—	32 (32A)	—	—	—	—	—	●	—	—		
		—	—	40 (40A)	—	—	—	—	—	●	—		
—	—	50 (50A)	—	—	—	—	—	—	●	—			

Normally open (N.O.)

Solenoid valve (Port size)				Orifice symbol (Diameter)						Material		
Model		VXD21	VXD22	VXD23	4 (15 mmø)	5 (20 mmø)	6 (25 mmø)	7 (35 mmø)	8 (40 mmø)	9 (50 mmø)	Body	Seal
Port no. (Port size)	Thread	03 (3/8)	—	—	●	—	—	—	—	—	Brass (C37), Stainless steel	NBR
		04 (1/2)	—	—	●	—	—	—	—	—		
		06 (3/4)	—	—	—	●	—	—	—	—		
	Flange	—	10 (1)	—	—	—	●	—	—	—	CAC407	
		—	32 (32A)	—	—	—	—	●	—	—		
		—	—	40 (40A)	—	—	—	—	●	—		
		—	—	50 (50A)	—	—	—	—	—	●		

Table (2) Solenoid Valve Option

Option symbol	Seal material	Body/ Shading coil material	Coil insulation type	Note
Nil	NBR	Brass (C37)/Cu (Note)	B	—
G		Stainless steel/Ag		

Note) CAC407 for 32A to 50A.

Table (3) Rated Voltage - Electrical Option

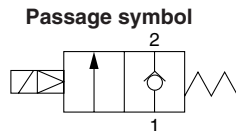
Rated voltage			Class B			Class H		
AC/ DC	Voltage symbol	Voltage	S With surge voltage suppressor	L With light	Z With light and surge voltage suppressor	S With surge voltage suppressor	L With light	Z With light and surge voltage suppressor
AC	1	100 V	___(Note)	●	___(Note)	●	●	●
	2	200 V		●		●	●	
	3	110 V		●		●	●	
	4	220 V		●		●	●	
	7	240 V		—		●	—	
	8	48 V		—		●	—	
	J	230 V		—		●	—	
DC	5	24 V	●	●	●	DC spec. is not available.		
	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.

For Water

Model/Valve Specifications

Normally closed (N.C.)



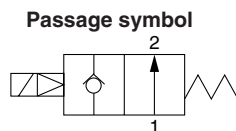
Port size		Orifice dia. (mmø)	Model	Min. operating pressure differential (MPa) ^{Note 1)}	Max. operating pressure differential (MPa)		Flow characteristics		Max. system pressure (MPa)	^{Note 2)} Mass (g)
					AC	DC	Av x 10 ⁻⁶ m ²	Cv converted		
Thread (Nominal size)	1/4 (8A)	10	VXD2130-02	0.02	0.7	0.5	46	1.9	1.5	420
	3/8 (10A)	10	VXD2130-03				58	2.4		670
			15		VXD2140-03	110	4.5	500		
	1/2 (15A)	10	VXD2130-04		0.7	0.5	58	2.4		670
			15				VXD2140-04	130		5.5
	3/4 (20A)	20	VXD2150-06		1.0	1.0	230	9.5		1650
1 (25A)	25	VXD2260-10	310	13			5400			
	32A	35	VXD2270-32	550			23	6800		
	40A	40	VXD2380-40	740			31	8400		
	50A	50	VXD2390-50	1200			49			

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

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

• Refer to "Glossary of Terms" on page 26 for details on the max. operating pressure differential and the max. system pressure.

Normally open (N.O.)



Port size		Orifice dia. (mmø)	Model	Min. operating pressure differential (MPa) ^{Note 1)}	Max. operating pressure differential (MPa)	Flow characteristics		Max. system pressure (MPa)	^{Note 2)} Mass (g)	
					AC, DC	Av x 10 ⁻⁶ m ²	Cv converted			
Thread (Nominal size)	3/8 (10A)	15	VXD2142-03	0.02	0.7	110	4.5	1.5	690	
	1/2 (15A)		VXD2142-04			130	5.5			
	3/4 (20A)	20	VXD2152-06			230	9.5			1170
	1 (25A)	25	VXD2262-10			310	13			1690
Flange	32A	35	VXD2272-32	0.03		550	23		5400	
	40A	40	VXD2382-40			740	31		6800	
	50A	50	VXD2392-50			1200	49		8400	

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

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

• Refer to "Glossary of Terms" on page 26 for details on the max. operating pressure differential and the max. system pressure.

Fluid and Ambient Temperature

Power source	Fluid temperature (°C)		Ambient temperature (°C)
	Solenoid valve option symbol		
	Nil, G, L	E, P Note 1)	
AC	1 to 60	1 to 99	-10 to 60
DC		—	

Note 1) 1 to 80°C for 32A to 50A.

Note 2) With no freezing

Valve Leakage Rate

Internal Leakage

Seal material	Leakage rate (Water)	
	1/4 to 1	32A to 50A
NBR, FKM, EPDM	0.2 cm ³ /min or less	1 cm ³ /min or less

External Leakage

Seal material	Leakage rate (Water)	
	1/4 to 1	32A to 50A
NBR, FKM, EPDM	0.1 cm ³ /min or less	0.1 cm ³ /min or less

How to Order

DC/AC (Except VXD2130 AC/Class B)
AC/Class B coil (Built-in full-wave rectifier type)

Model
Refer to the table (1) shown below for availability.

Orifice diameter
Refer to the table (1) shown below for availability.

Valve/Body configuration

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

* N.O. for VXD2130 is not available.

Solenoid valve option
Refer to the table (2) shown below for availability.

Note) Class B oil-free AC coils are applicable to the full-wave rectifier type only. Select the built-in full-wave rectifier type.

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 the table (3) shown below for availability.

Suffix

Nil	—
Z	Oil-free spec.

Port size
Refer to the table (1) shown below for availability.

Electrical entry

G - Grommet
GS - With grommet surge voltage suppressor

C - Conduit

Connector

Bracket

Nil	None
B	With bracket

* Bracket is not removable.

Built-in full-wave rectifier type

Thread type

Rated voltage

Electrical entry

Connector

Bracket

Built-in full-wave rectifier type

* Refer to the table (3) for the available combinations between each electrical option (S, L, Z) and rated voltage.

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

Table (1) Model/Orifice diameter/Port Size

Normally closed (N.C.)

Solenoid valve (Port size)				Orifice symbol (Diameter)							Material		
Model		VXD21	VXD22	VXD23	3 (10 mmø)	4 (15 mmø)	5 (20 mmø)	6 (25 mmø)	7 (35 mmø)	8 (40 mmø)	9 (50 mmø)	Body	Seal
Port no. (Port size)	Thread	02 (1/4)	—	—	●	—	—	—	—	—	—	Brass (C37), Stainless steel	NBR FKM EPDM
		03 (3/8)	—	—	●	●	—	—	—	—	—		
		04 (1/2)	—	—	●	●	—	—	—	—	—		
		06 (3/4)	—	—	—	—	●	—	—	—	—		
		—	10 (1)	—	—	—	—	●	—	—	—		
	Flange	—	32 (32A)	—	—	—	—	—	●	—	—	CAC407	
		—	—	40 (40A)	—	—	—	—	—	●	—		
		—	—	50 (50A)	—	—	—	—	—	—	●		

Normally open (N.O.)

Solenoid valve (Port size)				Orifice symbol (Diameter)						Material		
Model		VXD21	VXD22	VXD23	4 (15 mmø)	5 (20 mmø)	6 (25 mmø)	7 (35 mmø)	8 (40 mmø)	9 (50 mmø)	Body	Seal
Port no. (Port size)	Thread	03 (3/8)	—	—	●	—	—	—	—	—	Brass (C37), Stainless steel	NBR FKM EPDM
		04 (1/2)	—	—	●	—	—	—	—	—		
		06 (3/4)	—	—	—	●	—	—	—	—		
	Flange	—	10 (1)	—	—	—	●	—	—	—	CAC407	
		—	32 (32A)	—	—	—	—	●	—	—		
		—	—	40 (40A)	—	—	—	—	●	—		
—	—	50 (50A)	—	—	—	—	—	—	●			

Table (2) Solenoid Valve Option

Option symbol	Seal material	Body/ Shading coil material	Coil insulation type	Note
Nil	NBR	Brass (C37)/Cu Note 2)	B	—
G		Stainless steel/Ag		
E	EPDM	Brass (C37)/Cu Note 2)	H	Heated water (AC only)
P		Stainless steel/Ag		
L Note 1)	FKM	Stainless steel/Ag	B	High corrosive, Oil-free

Note 1) Select nil because option "L" is the oil-free treatment.

Note 2) CAC407 for 32A to 50A.

Table (3) Rated Voltage - Electrical Option

Rated voltage			Class B			Class H		
AC/ DC	Voltage symbol	Voltage	With surge voltage suppressor	L With light	With light and surge voltage suppressor	With surge voltage suppressor	With light	With light and surge voltage suppressor
AC	1	100V	●	●	●	●	●	●
	2	200V	●	●	●	●	●	●
	3	110V	●	●	●	●	●	●
	4	220V	●	●	●	●	●	●
	7	240V	●	—	—	●	—	—
	8	48V	●	—	—	●	—	—
DC	J	230V	●	—	—	●	—	—
	5	24V	●	●	●	DC spec. is not available.		
	6	12V	●	—	—			

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

Series VXD21/22/23

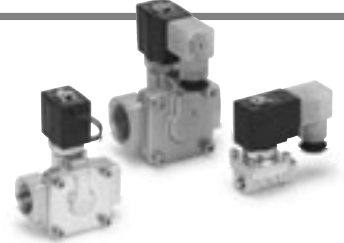
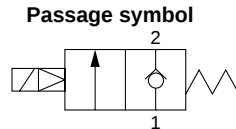
⚠ When the fluid is oil.

The dynamic viscosity of the fluid 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.
Select the DC spec. or AC spec. built-in full-wave rectifier type when the dynamic viscosity is higher than water or when the OFF response is prioritized.

For Oil

Model/Valve Specifications

Normally closed (N.C.)



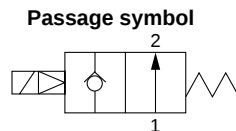
Port size		Orifice dia. (mmø)	Model	Min. operating pressure differential (MPa) ^{Note 1)}	Max. operating pressure differential (MPa)		Flow characteristics		Max. system pressure (MPa)	^{Note 2)} Mass (g)
					AC	DC	Av x 10 ⁻⁶ m ²	Cv converted		
Thread (Nominal size)	1/4 (8A)	10	VXD2130-02	0.02	0.5	0.4	46	1.9	1.5	420
		3/8 (10A)	10				VXD2130-03	58		2.4
		15	VXD2140-03		110	4.5	500			
	1/2 (15A)	10	VXD2130-04		0.5	0.4	58	2.4		670
		15	VXD2140-04				130	5.5		1150
	3/4 (20A)	20	VXD2150-06		0.7	0.7	230	9.5		1650
	1 (25A)	25	VXD2260-10				310	13		5400
Flange	32A	35	VXD2270-32	550			23	6800		
	40A	40	VXD2380-40	740	31	8400				
	50A	50	VXD2390-50	1200	49					

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

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

• Refer to "Glossary of Terms" on page 26 for details on the max. operating pressure differential and the max. system pressure.

Normally open (N.O.)



Port size		Orifice dia. (mmø)	Model	Min. operating pressure differential (MPa) Note 1)	Max. operating pressure differential (MPa)	Flow characteristics		Max. system pressure (MPa)	Note 2) Mass (g)	
					AC, DC	Av x 10 ⁻⁶ m ²	Cv converted			
Thread (Nominal size)	3/8 (10A)	15	VXD2142-03	0.02	0.6	110	4.5	1.5	690	
	1/2 (15A)		VXD2142-04			130	5.5			
	3/4 (20A)	20	VXD2152-06			230	9.5			1170
	1 (25A)	25	VXD2262-10			310	13			1690
Flange	32A	35	VXD2272-32	0.03		550	23		5400	
	40A	40	VXD2382-40			740	31		6800	
	50A	50	VXD2392-50			1200	49		8400	

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

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

• Refer to "Glossary of Terms" on page 26 for details on the max. operating pressure differential and the max. system pressure.

Fluid and Ambient Temperature

Power source	Fluid temperature (°C)		Ambient temperature (°C)
	Solenoid valve option symbol		
	A, H	D, N	
AC	-5 to 60	-5 to 100	-10 to 60
DC		—	

Note) Dynamic viscosity: 50 mm²/s or less

Valve Leakage Rate

Internal Leakage

Seal material	Leakage rate (Oil)	
	1/4 to 1	32A to 50A
FKM	0.2 cm ³ /min or less	1 cm ³ /min or less

External Leakage

Seal material	Leakage rate (Oil)	
	1/4 to 1	32A to 50A
FKM	0.1 cm ³ /min or less	0.1 cm ³ /min or less

How to Order

DC/AC (Except VXD2130 AC/Class B)
AC/Class B coil (Built-in full-wave rectifier type)

Model
Refer to the table (1) shown below for availability.

Orifice diameter
Refer to the table (1) shown below for availability.

Valve/Body configuration

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

* N.O. for VXD2130 is not available.

Solenoid valve option
Refer to the table (2) shown below for availability.
Note) Class B oil-free AC coils are applicable to the full-wave rectifier type only. Select the built-in full-wave rectifier type.

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 the table (3) shown below for availability.

Suffix

Nil	—
Z	Oil-free spec.

Port size
Refer to the table (1) shown below for availability.

Electrical entry

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.) * DIN type is available with class B only.

* Refer to the table (3) for the available combinations between each electrical option (S, L, Z) and rated voltage.
* Option "S", "Z" are not available as surge voltage suppressor is integrated into the AC/Class B coil, as a standard.

Bracket

Nil	None
B	With bracket

* Bracket is not removable.

Built-in full-wave rectifier type

Connector

Refer to page 75 for ordering coil only.

Table (1) Model/Orifice diameter/Port Size

Normally closed (N.C.)

Solenoid valve (Port size)				Orifice symbol (Diameter)							Material		
Model		VXD21	VXD22	VXD23	3 (10 mmø)	4 (15 mmø)	5 (20 mmø)	6 (25 mmø)	7 (35 mmø)	8 (40 mmø)	9 (50 mmø)	Body	Seal
Port no. (Port size)	Thread	02 (1/4)	—	—	●	—	—	—	—	—	—	Brass (C37), Stainless steel	FKM
		03 (3/8)	—	—	●	●	—	—	—	—	—		
		04 (1/2)	—	—	●	●	—	—	—	—	—		
		06 (3/4)	—	—	—	—	●	—	—	—	—		
		—	10 (1)	—	—	—	—	●	—	—	—		
	Flange	—	32 (32A)	—	—	—	—	—	●	—	—	CAC407	
		—	—	40 (40A)	—	—	—	—	—	●	—		
		—	—	50 (50A)	—	—	—	—	—	—	●		

Normally open (N.O.)

Solenoid valve (Port size)				Orifice symbol (Diameter)						Material	
Model	VXD21	VXD22	VXD23	4 (15 mmø)	5 (20 mmø)	6 (25 mmø)	7 (35 mmø)	8 (40 mmø)	9 (50 mmø)	Body	Seal
Port no. (Port size)	Thread	03 (3/8)	—	●	—	—	—	—	—	Brass (C37), Stainless steel FKM	FKM
		04 (1/2)	—	●	—	—	—	—	—		
		06 (3/4)	—	—	●	—	—	—	—		
		—	10 (1)	—	—	●	—	—	—		
	Flange	—	32 (32A)	—	—	—	●	—	—		
		—	—	40 (40A)	—	—	—	●	—	CAC407	FKM
	Flange	—	—	50 (50A)	—	—	—	—	●		

Table (2) Solenoid Valve Option

Option symbol	Seal material	Body/ Shading coil material	Coil insulation type
A	FKM	Brass (C37)/Cu Note 2)	B
H		Stainless steel/Ag	
D		Brass (C37)/Cu Note 2)	H
N		Stainless steel/Ag	

Note 1) The additives contained in oil are different depending on the manufacturer, so the durability of the seal materials will vary. For details, please consult with SMC.

Note 2) CAC407 for 32A to 50A.

Table (3) Rated Voltage - Electrical Option

Rated voltage			Class B			Class H		
AC/ DC	Voltage symbol	Voltage	With surge voltage suppressor	With light	With light and surge voltage suppressor	With surge voltage suppressor	With light	With light and surge voltage suppressor
AC	1	100V	●	●	●	●	●	●
	2	200V	●	●	●	●	●	●
	3	110V	●	●	●	●	●	●
	4	220V	●	●	●	●	●	●
	7	240V	●	—	—	●	—	—
	8	48V	●	—	—	●	—	—
DC	J	230V	●	—	—	●	—	—
	5	24V	●	●	●	DC spec. is not available.		
	6	12V	●	—	—			

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

Series VXD21/22/23

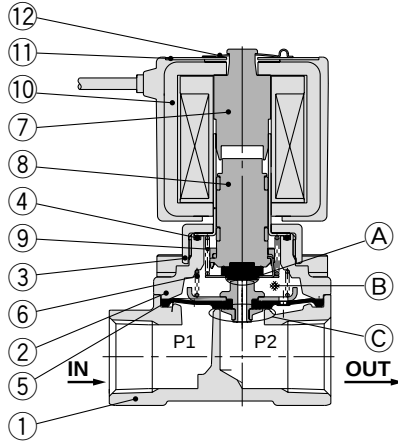
For Air, Water, Oil

Construction

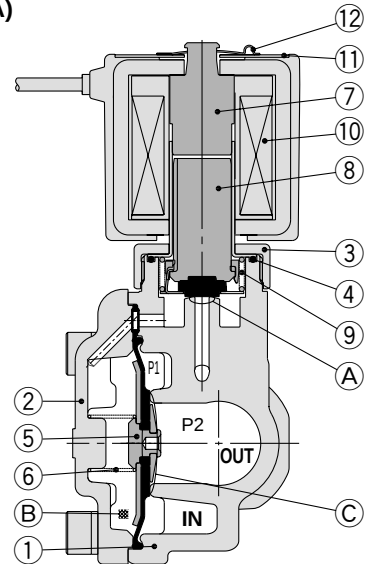
Normally closed (N.C.)

Body material: Brass (C37) (32A or larger: CAC407), Stainless steel (32A or larger: not available)

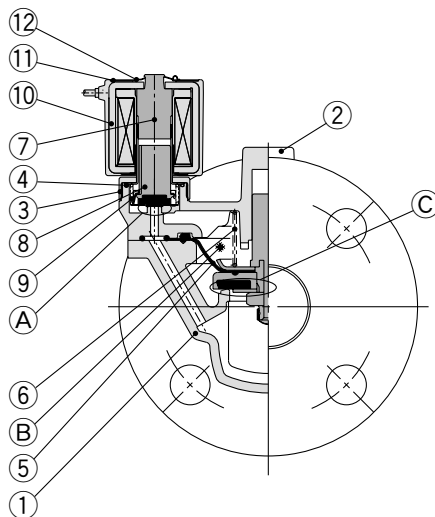
VXD2130 (8A/10A)



VXD2140, 2150, 2260
(10A to 25A)



VXD2270, 2380, 2390 (32A to 50A)



Operation

<Valve opened> When the coil ⑩ is energized, the armature assembly ⑧ is attracted into the core of the tube assembly ⑦ and the pilot valve ① opens. Then the pressure in the pressure action chamber ② falls to open the main valve ③.

<Valve closed> When the coil ⑩ is not energized, the pilot valve ① is closed and the pressure in the pressure action chamber ② rises and the main valve ③ closes.

Component Parts

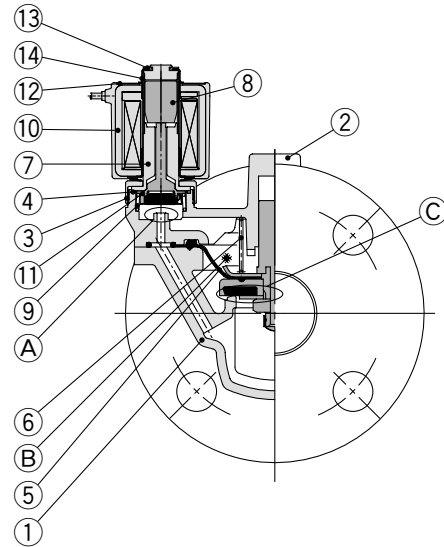
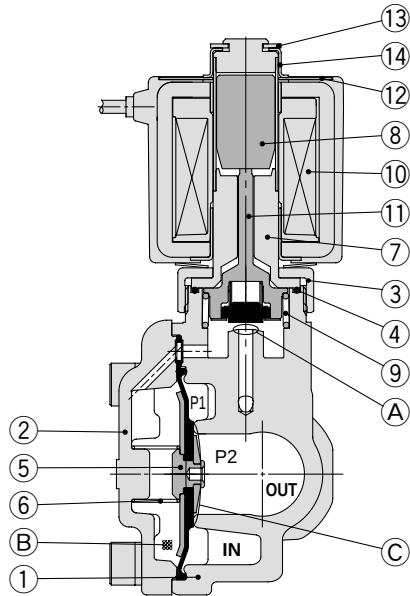
No.	Description	Size	Material	
			Standard	Option
1	Body	8A to 25A	Brass (C37)	Stainless steel
		32A to 50A	CAC407	
2	Bonnet	8A to 25A	Brass (C37)	Stainless steel
		32A to 50A	CAC407	
3	Nut	8A to 50A	Brass (C37)	Brass (C37), Ni plated
4	O-ring	8A to 50A	NBR	FKM, EPDM
5	Diaphragm assembly	8A to 25A	Stainless steel, NBR	Stainless steel, FKM / Stainless steel, EPDM
		32A to 50A	Stainless steel, Brass (C37), NBR	Stainless steel, FKM, EPDM
6	Valve spring	8A to 50A	Stainless steel	
7	Tube assembly	8A to 25A	Stainless steel, Cu	Stainless steel, Ag
		32A to 50A		—
8	Armature assembly	8A to 50A	Stainless steel, PPS, NBR	Stainless steel, PPS, FKM Stainless steel, EPDM
9	Return spring	8A to 50A	Stainless steel	
10	Solenoid coil	8A to 50A	Class B molded	Class H molded
11	Name plate	8A to 50A	Aluminum	
12	Clip	8A to 50A	SK	

Normally open (N.O.)

Body material: Brass (C37) (32A or larger: CAC407), Stainless steel (32A or larger: not available)

VXD2142, 2152, 2262
(10A to 25A)

VXD2272, 2382, 2392 (32A to 50A)



Operation

<Valve opened> When the coil ⑩ is energized, the opened pilot ① closes, the pressure in pressure action chamber ② rises and the main valve ③ closes.

<Valve closed> When the coil ⑩ is not energized, the closed pilot valve ① opens, the pressure in pressure action chamber ② drops and the main valve ③ opens.

Component Parts

No.	Description	Size	Material	
			Standard	Option
1	Body	10A to 25A	Brass (C37)	Stainless steel
		32A to 50A	CAC407	
2	Bonnet	10A to 25A	Brass (C37)	Stainless steel
		32A to 50A	CAC407	
3	Nut	10A to 25A	Brass (C37)	Brass (C37), Ni plated
4	O-ring	10A to 50A	NBR	FKM, EPDM
5	Diaphragm assembly	10A to 25A	Stainless steel, NBR	Stainless steel, FKM / Stainless steel, EPDM
		32A to 50A	Stainless steel, NBR	Stainless steel, FKM, EPDM
6	Valve spring	10A to 25A	Stainless steel	
7	Tube assembly	10A to 25A	Stainless steel, Cu	Stainless steel, Ag
		32A to 50A		—
8	Armature assembly	10A to 50A	Stainless steel	
9	Return spring	10A to 50A	Stainless steel	
10	Solenoid coil	10A to 50A	Class B molded	Class H molded
11	Push rod assembly	10A to 50A	NBR, PPS, Stainless steel	FKM, EPDM, Stainless steel
12	Name plate	10A to 50A	Aluminum	
13	Clip	10A to 50A	SK	
14	Cover	10A to 50A	Stainless steel	

VX2

VXD

VXZ

VXE

VXP

VXR

VXH

VXF

VX3

VXA

VCH□

VDW

VQ

LVM

VCA

VCB

VCL

VCS

VCW

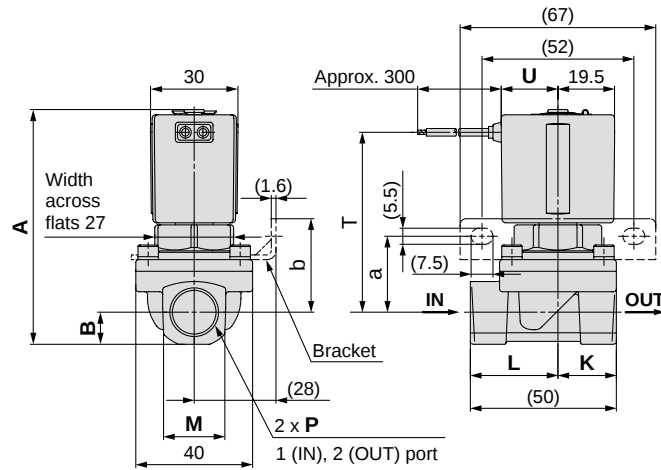
Series VXD21/22/23

For Air, Water, Oil

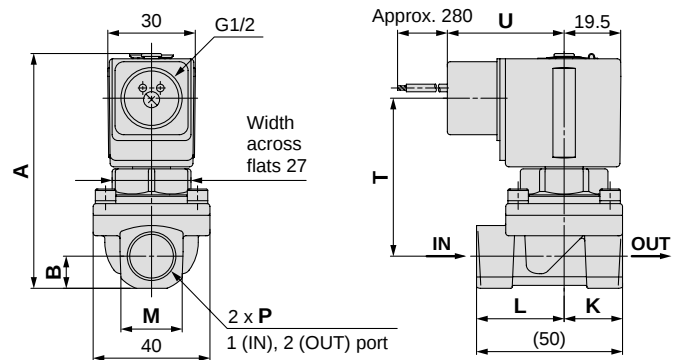
Dimensions: Body Material: Brass (C37), Stainless Steel

Normally closed (N.C.): VXD2130

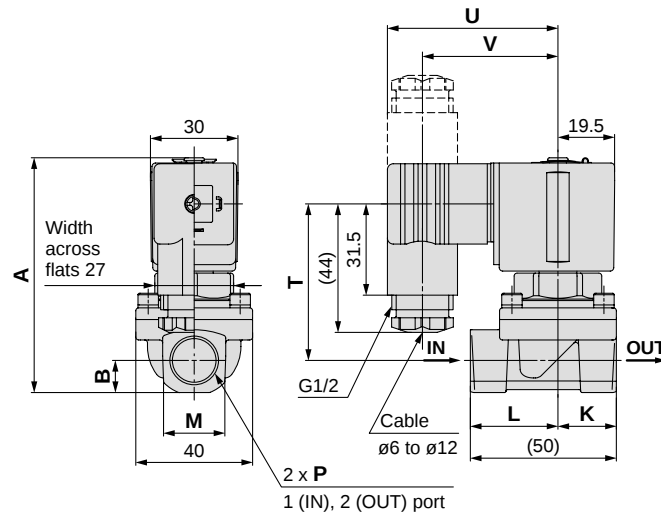
Grommet: G



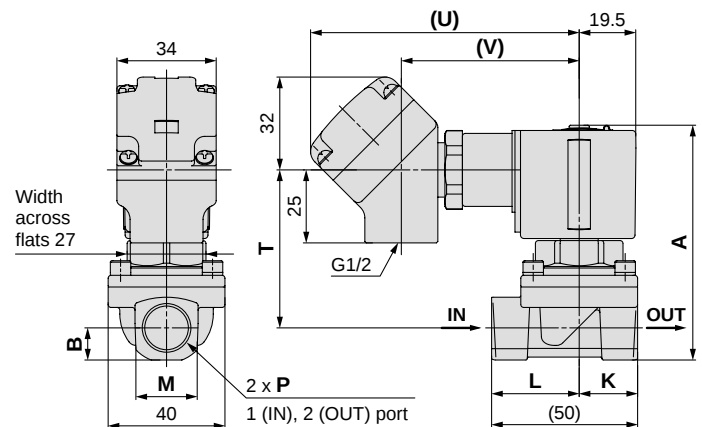
Conduit: C



DIN terminal: D

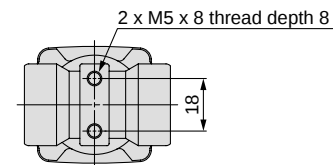


Conduit terminal: T



VXD2130□□-04□-□□□□

Note) A thread is drilled on the bottom of the body of the VXD2130 with port size 04 (1/2).



(mm)																
Model	Port size P	A	B	K	L	M	Electrical entry									
							Grommet		Conduit		DIN terminal			Conduit terminal		
N.C.							T	U	T	U	T	U	V	T	U	V
VXD2130	1/4, 3/8	80.5	11	20	30	22	62	19.5	54.5	40	54	58.5	46.5	54.5	92	61
	1/2	86	14.5	24	26	28	64	19.5	56.5	40	56	58.5	46.5	56.5	92	61

Model	Port size P	Electrical entry (Built-in full-wave rectifier type)										Bracket mounting	
		Grommet		Conduit		DIN terminal			Conduit terminal			a	b
N.C.		T	U	T	U	T	U	V	T	U	V		
VXD2130	1/4, 3/8	58	30	53	48.5	54	65.5	53.5	53	100.5	69.5	26	32
	1/2	60	30	55	48.5	56	65.5	53.5	55	100.5	69.5	28	34

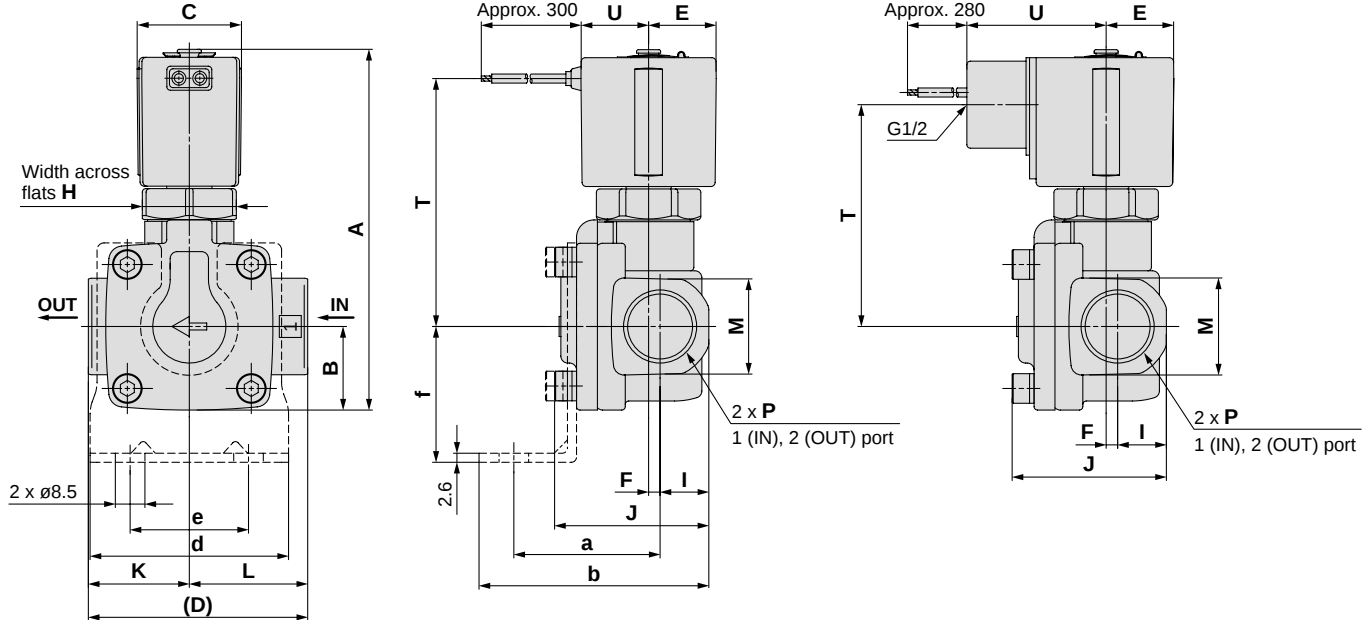
Dimensions: Body Material: Brass (C37), Stainless Steel

Normally closed (N.C.): VXD2140/VXD2150/VXD2260

Normally open (N.O.): VXD2142/VXD2152/VXD2262

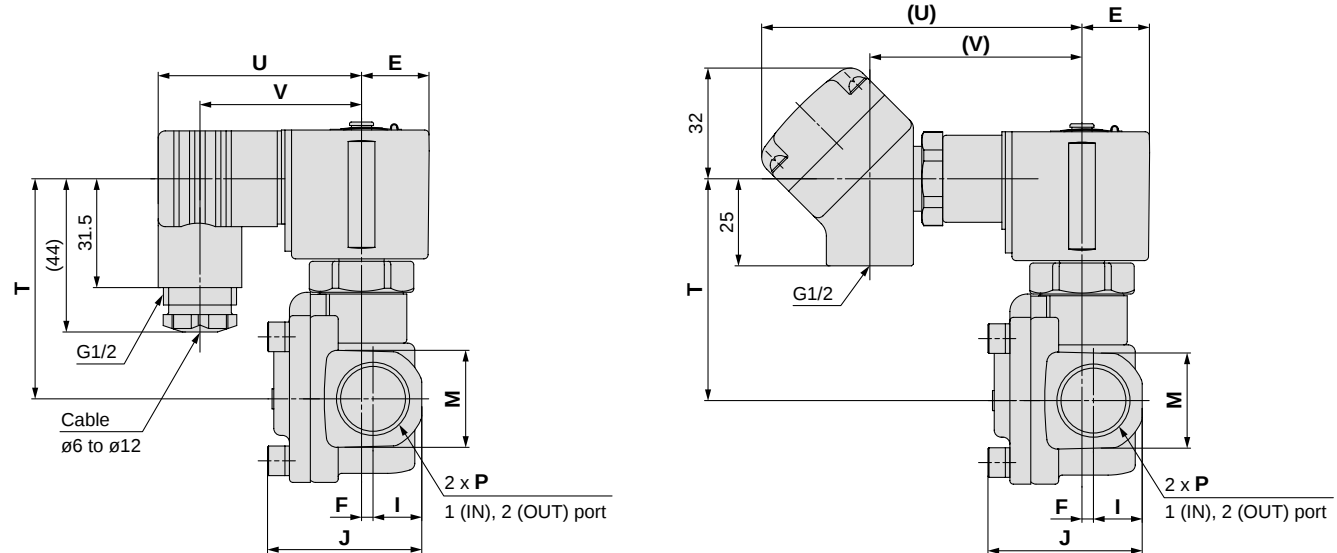
Grommet: G

Conduit: C



DIN terminal: D

Conduit terminal: T



(mm)																								
Model		Port size P	A	B	C	D	E	F	H	I	J	K	L	M	Electrical entry									
															Grommet		Conduit		DIN terminal			Conduit terminal		
N.C.	N.O.														T	U	T	U	T	U	V	T	U	V
VXD2140	VXD2142	3/8, 1/2	103.5 (110.5)	24	30	63	19.5	3.5	27	14	44.5	29	34	28	71.5 (73)	19.5	64 (65.5)	40	63.5 (65)	58.5	46.5	64 (65.5)	92	61
VXD2150	VXD2152	3/4	115 (122)	29	30	80	19.5	4.5	27	17	51.5	37	43	35	78 (79.5)	19.5	70.5 (72)	40	70 (71.5)	58.5	46.5	70.5 (72)	92	61
VXD2260	VXD2262	1	133 (140.5)	33	35	90	22.5	4.5	32	20	60	43	47	42	92 (93.5)	22.5	84.5 (86)	43	84 (85.5)	61.5	49.5	84.5 (86)	95	64

() denotes the value for N.O.

) denotes the value for N.O.

(mm)

Model		Port size P	Electrical entry (Built-in full-wave rectifier type)										Bracket mounting					
			Grommet		Conduit		DIN terminal		Conduit terminal									
N.C.	N.O.		T	U	T	U	T	U	V	T	U	V	a	b	d	e	f	
VXD2140	VXD2142	3/8, 1/2	67.5 (69)	30	62.5 (64)	48.5	63.5 (65)	65.5	53.5	62.5 (64)	100.5	69.5	42	66	57	34	39	
VXD2150	VXD2152	3/4	74 (75.5)	30	69 (70.5)	48.5	70 (71.5)	65.5	53.5	69 (70.5)	100.5	69.5	51	78	74	51	45.5	
VXD2260	VXD2262	1	88 (89.5)	33	83 (84.5)	51.5	84 (85.5)	68.5	56.5	83 (84.5)	103.5	72.5	56	86	81	58	49.5	

() denotes the value for N.O.

Series VXD21/22/23

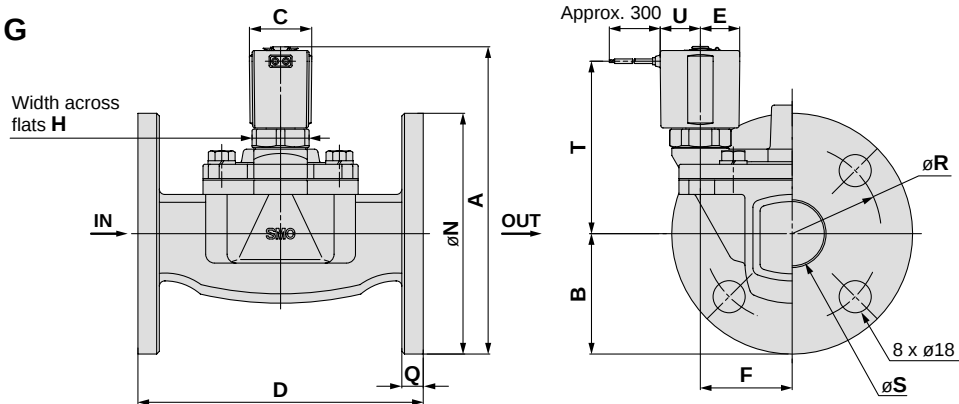
For Air, Water, Oil

Dimensions: Body Material: Brass (C37) , Stainless Steel

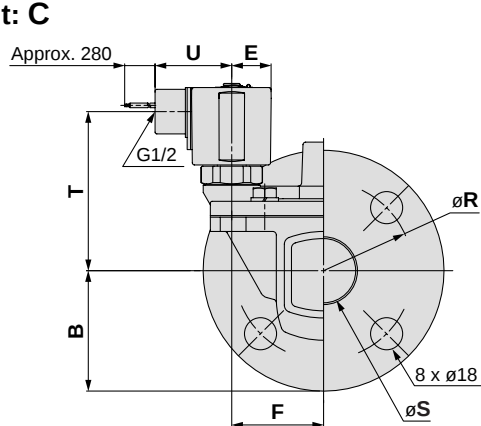
Normally closed (N.C.): VXD2270/VXD2380/VXD2390

Normally open (N.O.): VXD2272/VXD2382/VXD2392

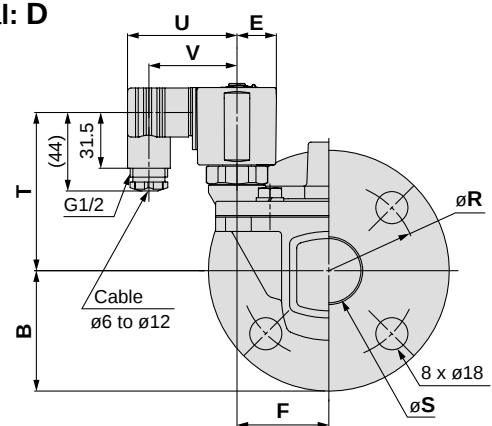
Grommet: G



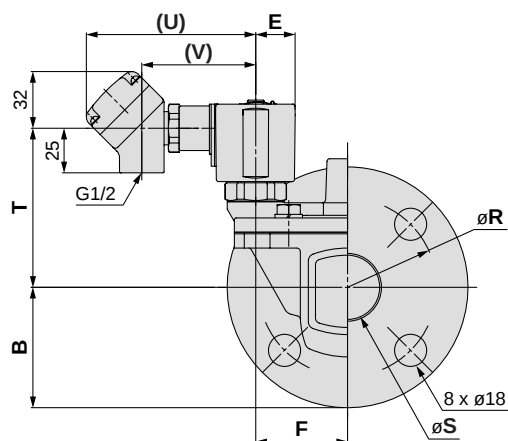
Conduit: C



DIN terminal: D



Conduit terminal: T



Model		Applicable flange	A	B	C	D	E	F	H	N	Q	R	S	Electrical entry											
														Grommet		Conduit		DIN terminal		Conduit terminal					
														T	U	T	U	T	U	V	T	U	V		
N.C.	N.O.														97 (98.5)	22.5	89.5 (91)	43	89 (90.5)	61.5	49.5	89.5 (91)	95	64	
VXD2270	VXD2272	32A	172.5 (180)	67.5	35	160	22.5	51.5	32	135	12	100	36		107 (108.5)	25.5	99.5 (101)	46	99 (100.5)	64	52	99.5 (101)	98	67	
VXD2380	VXD2382	40A	185 (192.5)	70	40	170	25	54.5	36	140	14	105	42		112.5 (114)	25.5	105 (106.5)	46	104.5 (106)	64	52	105 (106.5)	98	67	
VXD2390	VXD2392	50A	198 (205.5)	77.5	40	180	25	59	36	155	14	120	52												

() denotes the value for N.O.

(mm)

Model		Applicable flange	Electrical entry (Built-in full-wave rectifier type)											
			Grommet		Conduit		DIN terminal			Conduit terminal				
N.C.	N.O.		T	U	T	U	T	U	V	T	U	V		
VXD2270	VXD2272	32A	93 (94.5)	33	88 (89.5)	51.5	89 (90.5)	68.5	56.5	88 (89.5)	103.5	72.5		
VXD2380	VXD2382	40A	103 (104.5)	36	98 (99.5)	54	99 (100.5)	71	59	98 (99.5)	106	75		
VXD2390	VXD2392	50A	108.5 (110)	36	103.5 (105)	54	104.5 (106)	71	59	103.5 (105)	106	75		

() denotes the value for N.O.

Replacement Parts

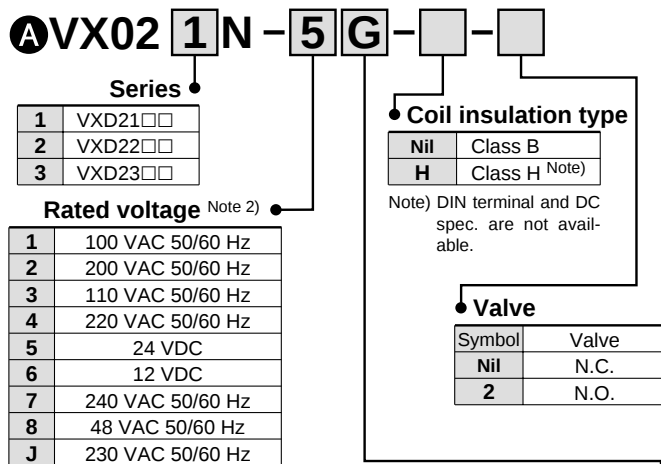
• Solenoid coil assembly part no.

Table (1) Model and Solenoid Coil Type

Select the coil type from ① to ③, and refer to "How to Order" below.

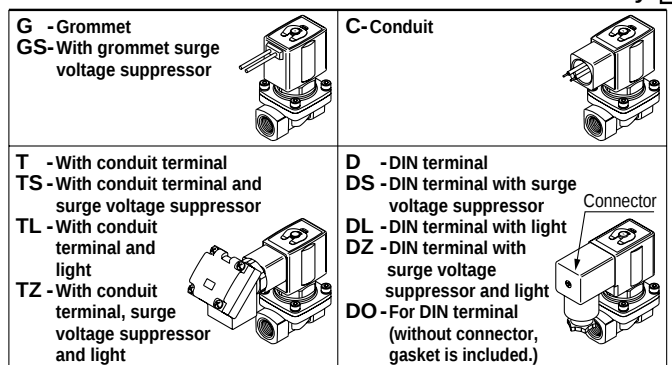
Voltage type		AC		AC (Built-in full-wave rectifier type)	DC
Coil insulation type		Class B	Class H	Class B	Class H
(Solenoid valve option)		(Nil, A, B, G, H, J, L)	(D, E, N, P)	(Nil, A, B, G, H, J, L)	(Nil, A, B, G, H, J, L)
Model	VXD2130	— Note)	Ⓐ	Ⓒ	Ⓑ
	VXD21 ⁴ ₅ □	Ⓐ	Ⓐ	Ⓒ	Ⓐ
	VXD22 ⁶ ₇ □	Ⓐ	Ⓐ	Ⓒ	Ⓐ
	VXD23 ⁸ ₉ □	Ⓐ	Ⓐ	Ⓒ	Ⓐ

DC, AC (Except VXD2130 AC/Class B) Note 1)



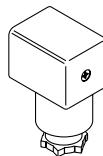
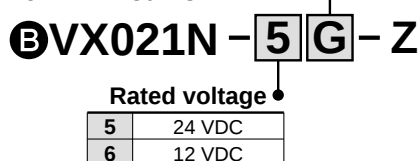
Note 1) For the AC (Class B coil) of the VXD2130, built-in full-wave rectifier type is only applicable.

Note 2) Refer to the table (2) for the available combinations.



* Refer to the table (2) for the available combinations between each electrical option and rated voltage.

For VXD2130 DC



S	With surge voltage suppressor
L	With light
Z	With light/surge voltage suppressor

* Refer to the table (1) for the available combinations between each electrical option (S, L, Z) and rated voltage.

Table (2) Rated Voltage – Electrical Option

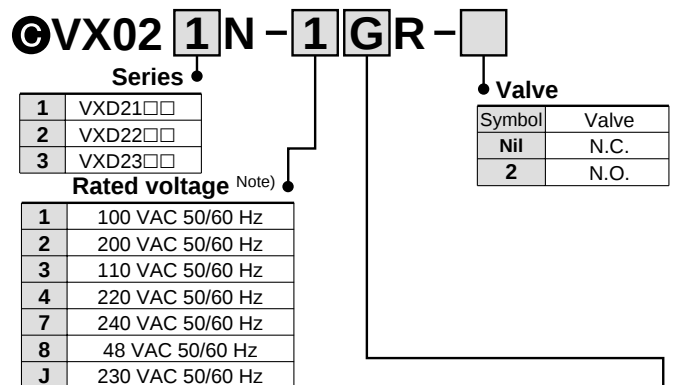
Rated voltage		Class B			Class H		
AC/DC	Voltage symbol	Voltage	With surge voltage suppressor	With light	With light and surge voltage suppressor	With surge voltage suppressor	With light and surge voltage suppressor
AC	1	100 V	●	●	●	●	●
	2	200 V	●	●	●	●	●
	3	110 V	●	●	●	●	●
	4	220 V	●	●	●	●	●
	7	240 V	●	—	—	●	—
	8	48 V	●	—	—	●	—
DC	J	230 V	●	—	—	●	—
	5	24 V	●	●	●	DC spec. is not available.	
	6	12 V	●	—	—		

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

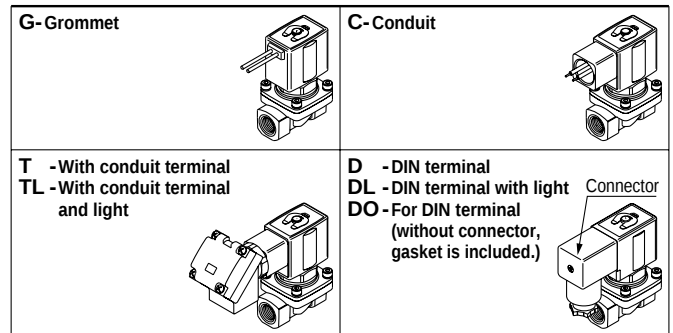
* Replacement of solenoid coils:

- DC and AC coils cannot be interchanged in order to change the voltage.
- DC and AC (built-in full-wave rectifier type) coils can be interchanged in order to change the voltage.
- All DC coil voltages are interchangeable. • All AC coil voltages are interchangeable.

AC/Class B (Built-in full-wave rectifier type)



Note) Refer to the table (2) for the available combinations.



* Refer to the table (2) for the available combinations between each electrical option and rated voltage.

* A surge voltage suppressor is integrated into the AC/Class B coil, as a standard.

• DIN connector part no.

Without electrical option **GDM2A**

With electrical option **GDM2A-□□**

Electrical option

Rated voltage

1	100 VAC, 110 VAC
2	200 VAC, 220 VAC, 230 VAC, 240 VAC
5	24 VDC
6	12 VDC
15	48 VAC

• Gasket part no. for DIN connector **VCW20-1-29-1**

Series VXD21/22/23

For Air, Water, Oil

Replacement Parts

- Name plate part no.

AZ-T-

Valve model

↑ Enter by referring to
"How to Order".

- Clip part no. (For N.C.)

For VXD21: **VX021N-10**

For VXD22: **VX022N-10**

For VXD23: **VX023N-10**

- Clip part no. (For N.O.)

For VXD21: **ETW-7**

For VXD22: **ETW-8**

For VXD23: **ETW-9**

