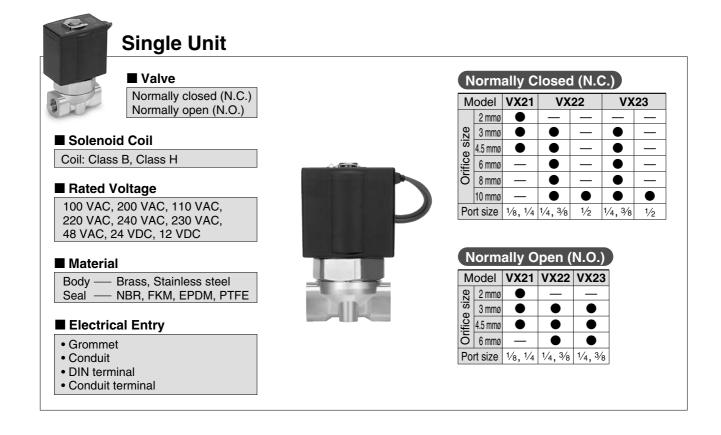
Direct Operated 2 Port Solenoid Valve Series VX21/22/23 For Water, Oil, Steam, Air





Valve

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

Base

1

Common SUP type, Individual SUP type (Base material Aluminum only)

Solenoid Coil

Coil: Class B, Class H

Rated Voltage

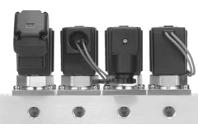
100 VAC, 200 VAC, 110 VAC, 220 VAC, 240 VAC, 230 VAC, 48 VAC, 24 VDC, 12 VDC

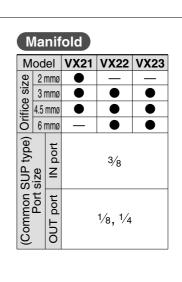
Material

Body—Aluminum, Brass, Stainless steelBase—Aluminum, Brass, Stainless steelSeal—NBR, FKM, EPDM, PTFE

Electrical Entry

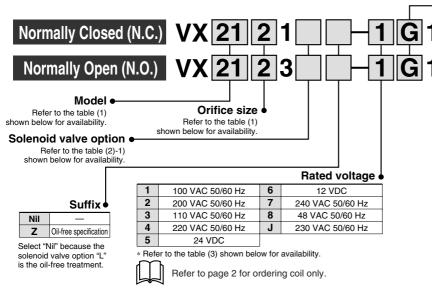
- Grommet
- Conduit
- DIN terminal
- Conduit terminal

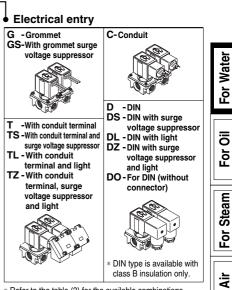




For Water/Manifold







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

For

Table (1) Port/Orifice Size

	(Orifice symb	ol (diameter)
Solenoid valve	1	2	3	4
valve	(2 mmø)	(3 mmø)	(4.5 mmø)	(6 mmø)
VX21		•		—
VX22	—			•
VX23	—			•

Table (2) Solenoid Valve Option

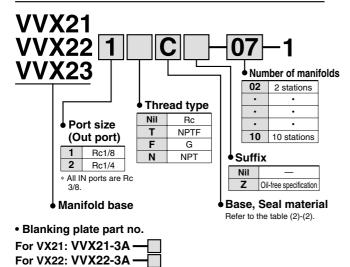
Solenoid valve option symbol (1)	Base, Seal material symbol (2)	Body, Base material	Seal material	Coil insulation type	Note
Nil	С	Brass	NBR	в	
G	S	Stainless steel	NDN	D	_
E	CE	Brass	EPDM	н	Heated water
Р	SE	Stainless steel	EFDIN	П	(AC only)
L	SF	Stainless steel	FKM	В	High corrosive, Oil-free

Table (3) Rated Voltage – Electrical Option

D	ated volt	0.00		Class B			Class H	
Πα		aye	S	L	Z	S	L	Z
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
	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		•			spec. is i	not
DC	6	12 V		_	—	avai	lable.	

Dimensions \rightarrow page 23 (manifold)





Seal material Nil NBR FKM F Ε EPDM

How to Order Manifold Assemblies (Example)

Enter the valve and blanking plate to be mounted under the manifold base part number.

Example VVX211C-05-1 1 set * VX2111-1G1 4 sets * VVX21-3A 1 set

For VX23: VVX23-3A

"*" is the symbol for mounting. Add an "*" in front of the part numbers for solenoid valves, etc. to be mounted.

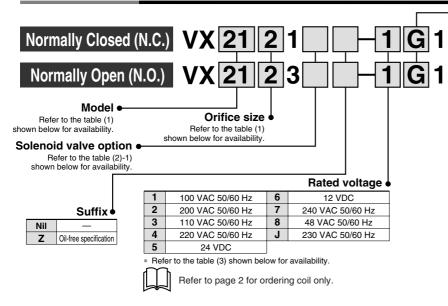
6

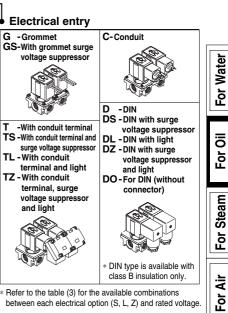
Enter the product's part number in order, counting the 1st station from the left in the manifold arrangement. when viewing the individual port in front.

SMC

For Oil/Manifold

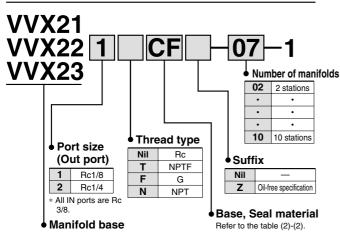
How to Order (Solenoid Valve for Manifold)





between each electrical option (S, L, Z) and rated voltage

How to Order Manifold Bases



• Blanking plate part no. For VX21: VVX21-3A-F For VX22: VVX22-3A-F For VX23: VVX23-3A-F

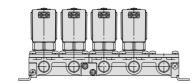
Seal material: FKM

How to Order Manifold Assemblies (Example)

Enter the valve and blanking plate to be mounted under the manifold base part number.

Example VVX211CF-05-1.....1 set * VX2111A-1G1......4 sets * VVX21-3A-F......1 set

"*" is the symbol for mounting. Add an "*" in front of the part numbers for solenoid valves, etc. to be mounted.



Enter the product's part number in order, counting the 1st station from the left in the manifold arrangement. when viewing the individual port in front.

Table (1) Port/Orifice Size

ſ		(Orifice symb	ol (diameter)
	Solenoid valve	1	2	3	4
	valve	(2 mmø)	(3 mmø)	(4.5 mmø)	(6 mmø)
	VX21	•			—
	VX22	—			•
	VX23	_			

Table (2) Solenoid Valve Option

Solenoid valve option symbol (1)	Base, Seal material symbol (2)	Body, Base material	Seal material	Coil insulation type	Note
A	CF SF	Brass Stainless steel		В	_
D	CF	Brass	FKM	н	AC only
N	SF	Stainless steel		П	AC only

The additives contained in oil are different depending on the type and manufacturers, so the durability of the seal materials will vary. For details, please consult with SMC

Table (3) Rated Voltage – Electrical Entry – Electrical Option

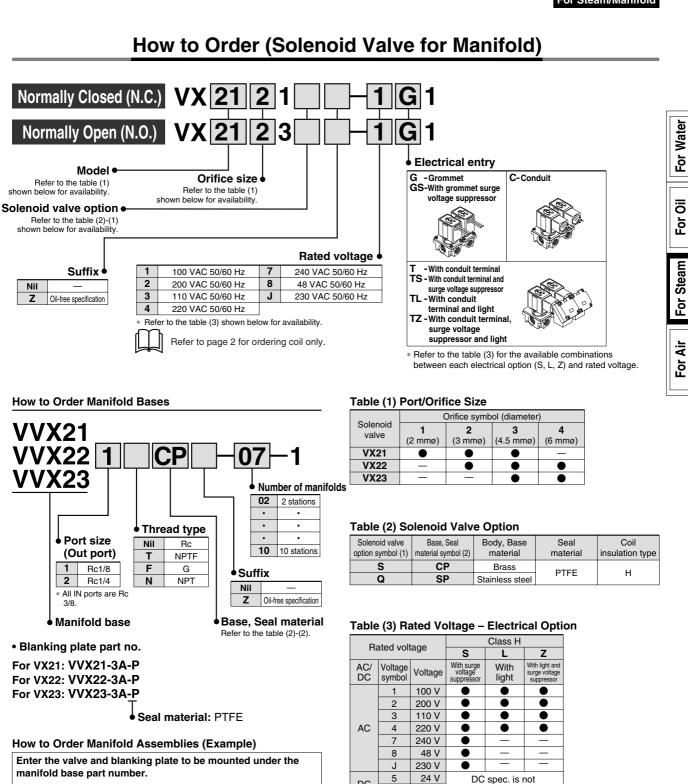
D	ated volt	200		Class B			Class H	
п		aye	S	L	Z	s	L	Z
AC/ DC	Voltage symbol	Voltage	With surge voltage suppressor	With light	With light and surge voltage suppressor	With surge voltage suppressor	With light	With light and surge voltage suppressor
	1	100 V		•		•	•	
	2	200 V		•		•	•	
	3	110 V		•		•	•	
AC	4	220 V		•	•	•	•	
	7	240 V		_	—	•	-	—
	8	48 V		-	—	•		—
	J	230 V		-	—	•		—
DC	5 24 V			•	•	DC	spec. is	not
DC	6	12 V		_	_	avai	lable.	

Dimensions \rightarrow page 23 (manifold)



For Steam/Manifold

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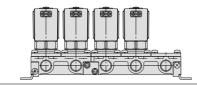
* VX2111S-1G1......4 sets

"*" is the symbol for mounting. Add an "*" in front of the part numbers for solenoid valves, etc. to be mounted.

VVX211CP-05-1.....1 set

* VVX21-3A-P......1 set

Example



Enter the product's part number in order, counting the 1st station from the left in the manifold arrangement. when viewing the individual port in front.

SMC

DC

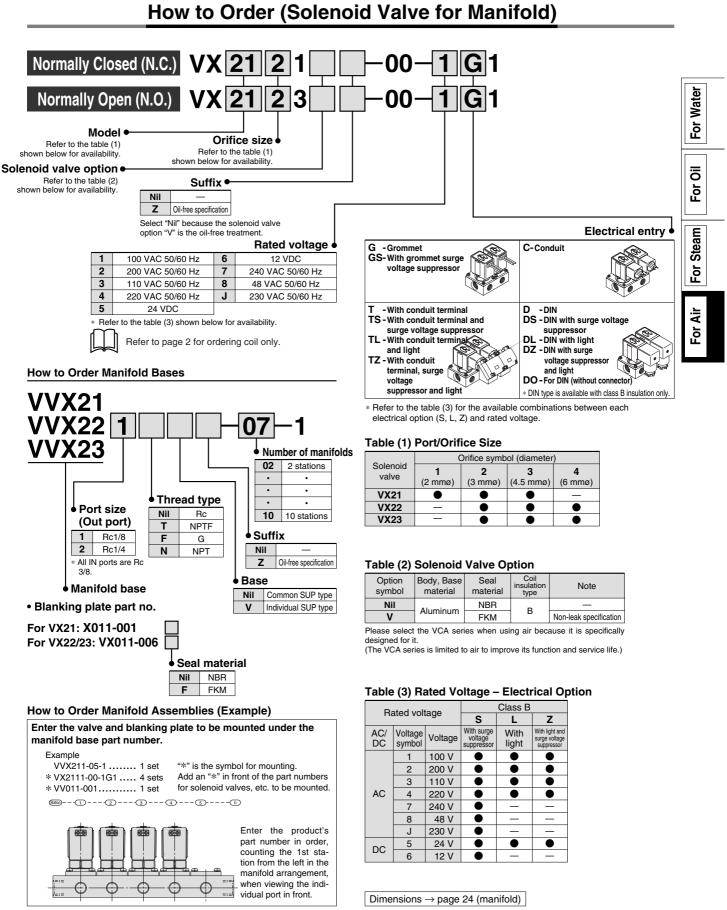
6

12 V

Dimensions \rightarrow page 23 (manifold)

available.

For Air/Manifold



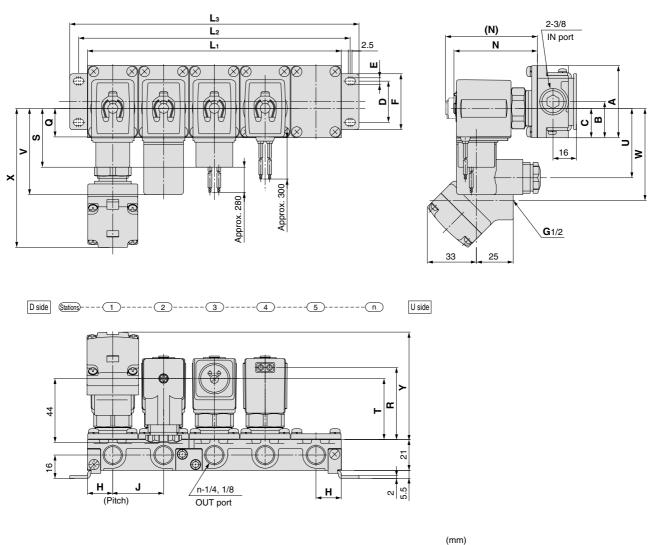
SMC

Series VX21/22/23

For Water, Oil, Steam/Manifold

Dimensions: Manifold/Base Material: Brass, Stainless Steel

Normally closed (N.C.): VVX21/VVX22/VVX23 Normally open (N.O.)



Model	Dimension					n (sta	tions)			
woder	Dimension	2	3	4	5	6	7	8	9	10
	L1	69	103.5	138	172.5	207	241.5	276	310.5	345
VVX21	L2	81	115.5	150	184.5	219	253.5	288	322.5	357
	L3	93	127.5	162	196.5	231	265.5	300	334.5	369
	L1	77	115.5	154	192.5	231	269.5	308	346.5	385
	L2	89	127.5	166	204.5	243	281.5	320	358.5	397
VVX22	L3	101	139.5	178	216.5	255	293.5	332	370.5	409
VVX23	L1	83	124.5	166	207.5	249	290.5	332	373.5	415
	L2	95	136.5	178	219.5	261	302.5	344	385.5	427
	L3	107	148.5	190	231.5	273	314.5	356	397.5	439

Manifold composition 2 stns. x 1 3 stns. x 1 2 stns. x 2 2 stns. + 3 stns. 3 stns. x 2 2 stns. + 3 stns. 2 stns. + 3 stns. x 2 3 stns. x 3 2 stns. x 4 3 stns. x 2 3 stns. x 4 3 stns. x 4

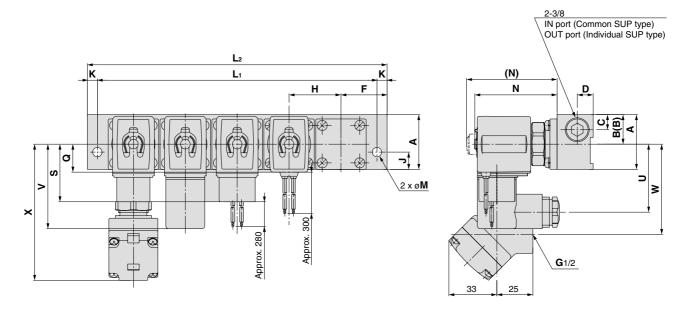
								Electrical entry						entry												
Model	A	в	С	D	Е	F	H	H	H	н	н	H	н	н	H J	JN	JN		nmet	Cor	Iduit	DIN te	erminal	Conduit terminal		minal
										Q	R	S	Т	U	V	W	X	Y								
VVX21	49	24.5	20	28	4.5	38	17.3	34.5	57 (65)	19.5	49	40	41.5	46	58	63	94.5	73								
VVX22	57	28.5	25.5	30	5.5	42	19.3	38.5	70 (78)	22.5	62	43	54	50	62	66	97.5	86								
VVX23	57	28.5	25.5	30	5.5	42	20.8	41.5	74 (82)	25	66.5	46	59	53	64.5	68	100	90.5								

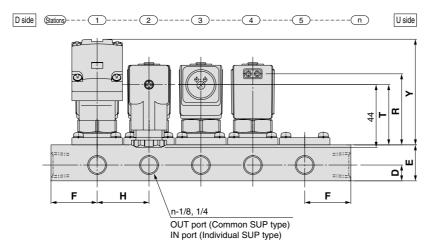
The figures in parentheses are the normally open type.

(mm)

Dimensions: Manifold/Base Material: Aluminum

Normally closed (N.C.): VVX21/VVX22/VVX23 Normally open (N.O.)





										(mm		
Model	Dimension				n	(station	ons)					
Model	Dimension	2	3	4	5	6	7	8	9	10		
VVX21	L1	86	122	158	194	230	266	302	338	374		
V V A 2 I	L2	100	136	172	208	244	280	316	352	388		
VVX22	L1	108	154	200	246	292	338	384	430	476		
VVX23	L2	126	172	218	264	310	356	402	448	494		

			(B)													Ele	ctrical e	entry			
Model	A	В	Individual SUP	С	D	Е	F	н	J	κ	м	N	Gron	nmet	Cor	nduit	DIN te	erminal	Cond	duit teri	minal
			type										Q	R	S	Т	U	V	W	Х	Y
VVX21	38	20.5	17.5	10.5	11	25	32	36	12	7	6.5	57 (65)	19.5	49	40	42	46	58	62	95	73.5
VVX22	49	26.5	22.5	13	13	30	40	46	15	9	8.5	66 (74)	22.5	58	43	51	50	62	65	98	82
VVX23	49	26.5	22.5	13	13	30	40	46	15	9	8.5	71 (79)	25	63	46	56	53	64.5	68	101	87

The figures in parentheses are the normally open type.

(mm)