

SMC

Manifold Specifications

Base model	Wiring	Porting specifications 4(A), 2(B) Port	Port size 1(P), 5(R1) 3 (R2)			Applicable solenoid valve
Plug-in type VV5ZS2-51F VV5ZS2-51G	With D-sub connector With attachment plug lead wire			1⁄8	2 to 16 [*] stations	VZS2□50-□FZ
Non plug-in type VV5ZS2-51	Grommet L plug connector M plug connector K plug connector DIN terminal	Side	1⁄8	C4 C6	2 to 24 stations	G L VZS2□50-□ M KZ D

* With attachment plug lead wire: 15 stations max.

Flow Characteristics at the Number of Manifold Stations (Operated single/double type individually)

<u>(- </u>											
Passage	e/Stations	Station 1	Station 5	Station 10	Station 15	Station 20					
$1 \rightarrow 4/2$	C [dm3/(s·bar)]	1.3	1.4	1.4	1.4	1.4					
$1 \rightarrow 4/2$ (P \rightarrow A/B)	b	0.12	0.12	0.12	0.12	0.14					
$(I \rightarrow A/D)$	Cv	0.31	0.33	0.33	0.35	0.36					
$4/2 \rightarrow 5/3$	C [dm3/(s·bar)]	1.5	1.6	1.6	1.6	1.5					
$4/2 \rightarrow 5/3$ (A/B \rightarrow R1/R2)	b	0.12	0.11	0.11	0.10	0.11					
$(\neg \cup \rightarrow \Pi \Pi \Pi 2)$	Cv	0.37	0.36	0.36	0.36	0.35					

Manifold Option Parts Assembly

Individual SUP spacer

An individual SUP spacer set on manifold block can form SUP port for every valve.

Bo	dy type	Plug-in type	Non plug-in type							
Part no.										



Individual EXH spacer

An individual EXH spacer set on manifold block can form EXH port for every valve

0.0	on our		every value.
Во	dy type	Plug-in type	Non plug-in type
Part no.	Rc 1⁄8	VVZS2000-R-01-1	VVZS2000-R-01-2
	No.		

SUP block disk

When supplying manifold with more than two different pressures, high and low, insert a block disk in between stations subjected to different pressures

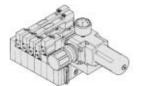
Body type Plug-in type Non plug-in type							
Body type	Plug-in type	Non plug-in type					
Part no.	VVZS20	000-26A					

Manifold Option

With control unit

Plug-in type/Non plug-in type

- Filter, regulation valve, pressure switch and air release valve all combine to form one unit.
- Piping processes are eliminated.



For details, refer to pages 3-7-19 and 3-7-20.

EXH block disk

When valve exhaust affects the other stations on the circuit or when the reverse pressure valve is used to standard manifold valve, insert EXH block disk in between stations to separate valve exhaust.



Blanking plate

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.

Body type	Plug-in type	Non plug-in type
Part no.	VVZS2000-10A-1	VVZS2000-10A-2
	~	

Interface regulator (P port regulation) Spacer Interface regulators can be placed on top of the manifold block to reduce the pressure of each of the valves.

Body type	Plug-in type	Non plug-in type						
Part no.	ARBZS2000-00-P-1	ARBZS2000-00-P-2						

Note) • Apply pressure from the P port of the base to operate the interface regulator. To use concurrently with a double check spacer, assemble in the following order: the valve, the interface regulator, and the double check spacer.

With serial interface unit for serial transmission

- Plug-in type
- Solenoid valve wiring process reduced One-touch piping considerably.
- Disperse installation possible. Manifold solenoid valve: 32 stations (512 point) max.
- Maintenance and inspection are easy.



How to Order Manifold Assembly

Please indicate manifold base type, corresponding valve, and option parts.

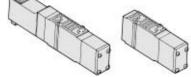
(Example)

- Plug-in type (At 6 stations) (Manifold base) VV5ZS2-51FD-061-01...1 (2 position single) VZS2150-5FZ......3 (2 position double) VZS2250-5FZ2 (Blanking plate) VVZS2000-10A-11
- Non plug-in type (At 6 stations) (Manifold base) VV5ZS2-51-061-01----1 (2 position single) VZS2150-5G5 (3 position exhaust center) VZS2450-5G...1 (Individual EXH spacer) VVZS2000-R-01-2--1

Double check spacer

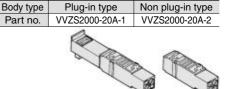
If the double check spacer with a built-in double check valve is combined, it will enable the cylinder to stop in the intermediate stroke and maintain its position for a long time without being affected by the leakage between the spools.

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Body type	Plug-in type	Non plug-in type
Part no.	VVZS2000-22A-1	VVZS2000-22A-2



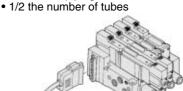
Throttle valve spacer

Needle valve set on the manifold block can control cylinder speed by throttling exhaust.

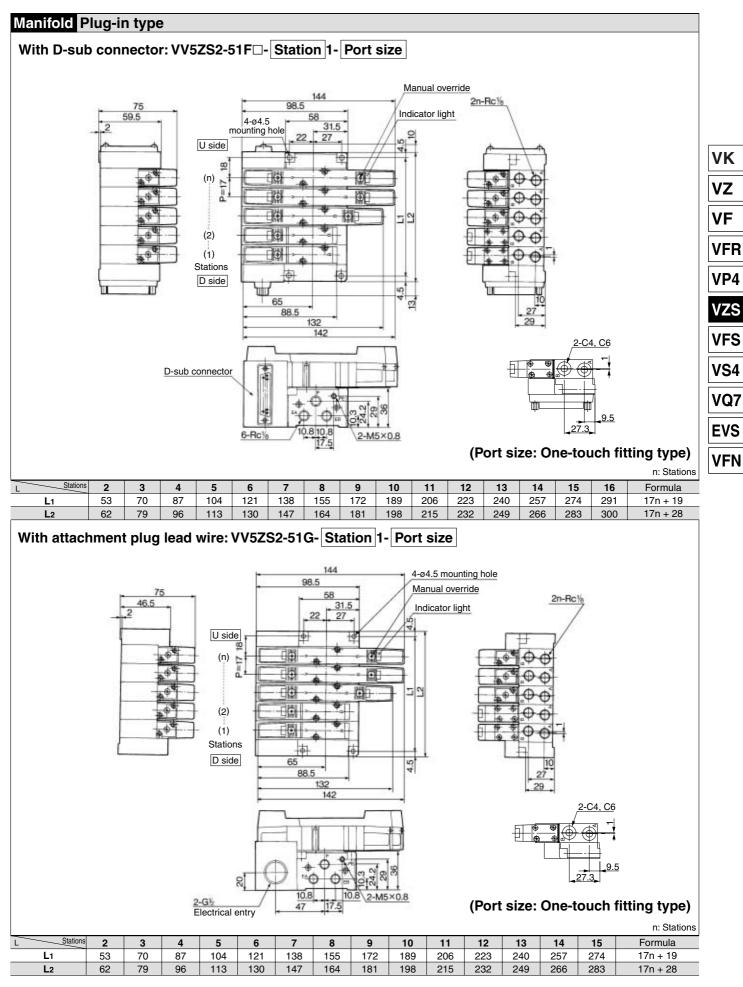


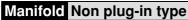
With coaxial fitting

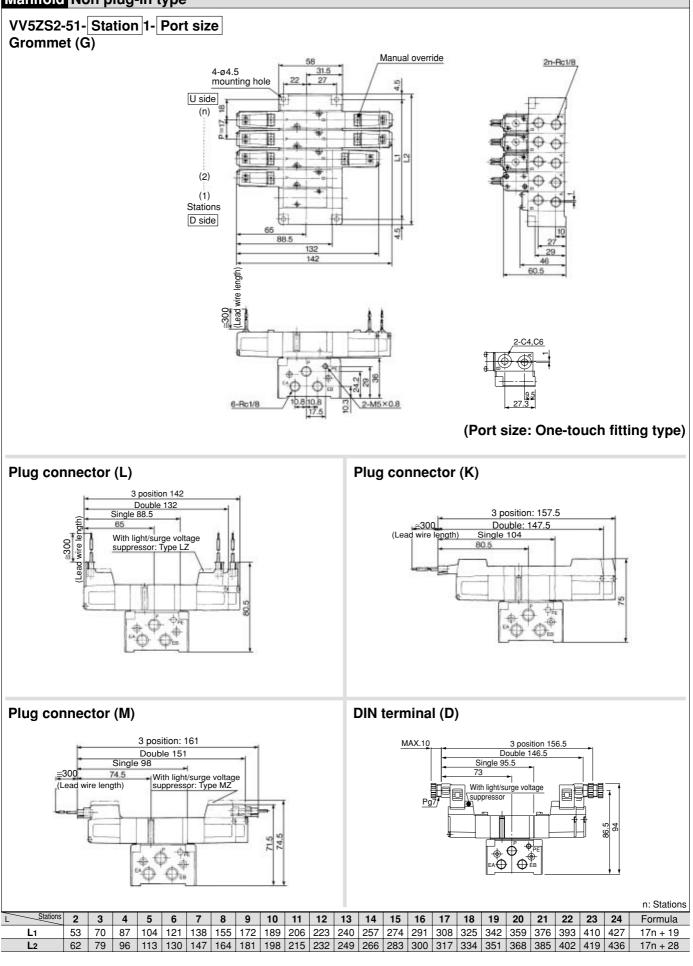
- Plug-in type/Non plug-in type
- Piping man-hours reduced



For details, refer to catalog (CAT. 02-5).









5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VZS2000

Manifold with Control Unit

- Control unit (Filter, Regulator, Pressure switch, Air release valve) are all standardized to the one unit, and can be mounted on the manifold base without any attachments.
- Piping processes are eliminated.





Non plug-in type

≜Caution

When using an air filter with auto-drain or manual override drain, mount the filter vertically.

Manifold Specifications

Operating pressure range

		Porting spec	cifications	Port si	ze		Applicable			
Base model		Wiring			1(P), 5(R1 3 (R2)) 4(A) 2(B)	Valve model 2 to 16* stations VZS2□50-□FZ 2 to 24 stations VZS2□50-□L M 2 to 24 stations VZS2□50-□L KZ Option KZ MP2-1 KZ VVZS2000-15A VZS2000-15A /vth pressure switch) VZS2000-24A-10-1/2 (Release valve) XTO-1889-10 Plug-in type VVZS2000-14A Non plug-in type			
VV5ZS2-51E	in type S2-51F • With D-sub connector S2-51G • With attachment plug lead wire olug-in type S2-51 • Grommet • L plug connector • M plug connector • With attachment plug lead wire: 15 st • Store (Outlet pressure) 0.05 to 0.7 MP • Store store range: OFF 0.1 to 0.4 MPa • Store capaci				Rc 1⁄8		VZS2□50-□FZ			
			Sid	е	Rc 1⁄8	C4		valve model 2 to 16 [*] stations 2 to 24 stations VZS2□50-□FZ G VZS2□50-□L M KZ Dtion MP2-1 rol unit/Filter regulator) VZS2000-15A n pressure switch)		
		Wiring 4(A), 2(B) port 1(P), 5(H1) 3 (R2) 4(A) 2(B) Stations value n th D-sub connector h attachment plug lead wire ommet Side Rc 1/8 2 to 16* stations VZS2□5 ommet Side Rc 1/8 C4 2 to 24 stations VZS2□5 plug connector plug connector Side Rc 1/8 C4 2 to 24 stations VZS2□5 onmet Side Rc 1/8 C4 C6 2 to 24 stations VZS2□5 onmet Side Rc 1/8 C4 C6 2 to 24 stations VZS2□5 onnector 10 µm MP2-1 (With control unit/Filter regulate 0.05 to 0.7 MPa Blanking plate VVZS2000-15A (With pressure switch) VZS2000-24A-10-2 (Release valve) 0.1 to 0.4 MPa 0.08 MPa Filter Filter Filter								
							stations	KZ		
Air filter (With auto Filtration degree)		(Wi	th cor		•		
Filtration degree		10 µm			(Wi	th cor	trol unit/	Filter regulator)		
U					ing					
V5ZS2-51G • With atta • Gromm • L plug • L plug • L plug • M plug • K plug •	0.05 to 0.7 MF	a	plate			•				
· · ·		a		valve)						
	sure					XTO-1889-10				
				eleme	nt					
Max. switch capacity 2 VA AC, 2 W D				Plug-in type						
Max, operating curr	rent	,		Press		VVZS2000-14A				
lug-in type V V5ZS2-51F V v5ZS2-51G V on plug-in type V V5ZS2-51 C V5ZS2-51 V V V V5ZS2-51 V V V V V V5ZS2-51 V V V <	100 VAC, DC: 20 mA			switch						
Operating voltage	e	100 VAC DC or	222			I	Stations valve mod 2 to 16* stations VZS2□50- 2 to 24 stations VZS2□50- ption VZS2□50- mP2-1 trol unit/Filter regula VZS2000-15A th pressure switch) /ZS2000-24A-10-1/2 (Release valve) XTO-1889-10 Plug-in type V/ZS2000-14A			
Air release valve		· · · · · · · · · · · · · · · · · · ·	000				01000 00	J-7204		

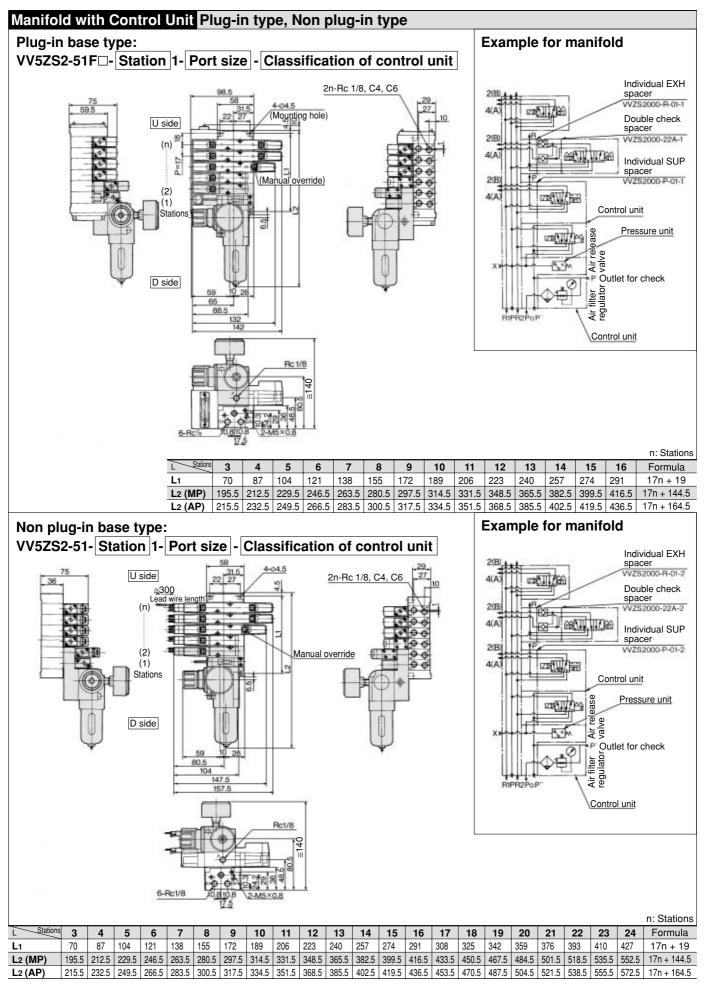
0.1 to 1.0 MPa

VK
٧Z
VF
VFR
VP4
VZS
VFS
VS4
VQ7
EVS
VFN

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V١	/5ZS2	2-51	FD	0 - 0	8 1	<u> </u> – C)1	μH	AP 5					_					
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511	F Stacking	lug-in type: type manifol -sub conne	d base							2 5 9* * Option		0 VA0 4 VD 0	· ·		Hz	th a e	ne sa s the quipp	othe oche	alve metho er valv on th
510	G Stacking	lug-in type: type manifol ment plug le							Control	unit type Symbol	Nil		4.0	м	МР	s: F		mani	_
51	Non	n plug-in type type manifol	ə:									A •	AP •		•	•	G ●	с —	E
	ector mou								Air release Pressure su Blanking plate		-	•	•	•		•	•	•	•
lil D	None D side	51 51G	2 to 24 2 to 15 2 to 8						Blanking plate	e (Filter regulator) e (Pressure switch) anifold blocks	-	•	<u> </u>	•	-	•	•	•	<u> </u>
J 3	U side Both sides	51F	9 to 16							nounting (Stations) Operating voltage c	of pre	ssure	switc	h: 10	2 00 VA	C, 10	0 V D	C or l	1 ess.
2 4 2 e) M sta 16	tions • 2 stations 24 stations aximum ations 5 stations 5 stations 4 stations 1	1(P)	ssage 5(R1), 3(R2 Common	Porting sp 2) 4(A	nbol ecification A), 2(B) Side	_	01 C4	Standard N Option - I I Standard N Option - I I I I I I I I I I I I I I I I I I I	NPT NPTF	(2 position	arts. se ty base sing dou are r n typ base sing	pe wi) ' lle) ' ble) ' neede e ' lle) '	ith D VV52 VZS2 ed to VV52 VZS2	-sub ZS2 2150 2250 mo ZS2 2150	-51F 0-5F2 0-5F2 0-5F2 0-5F2 0-5F2 0-5F2 0-5M	nect D-09 <u>z</u> z contr 071-0 Z	or 91-01 ol ur 01-M	I-MF	25

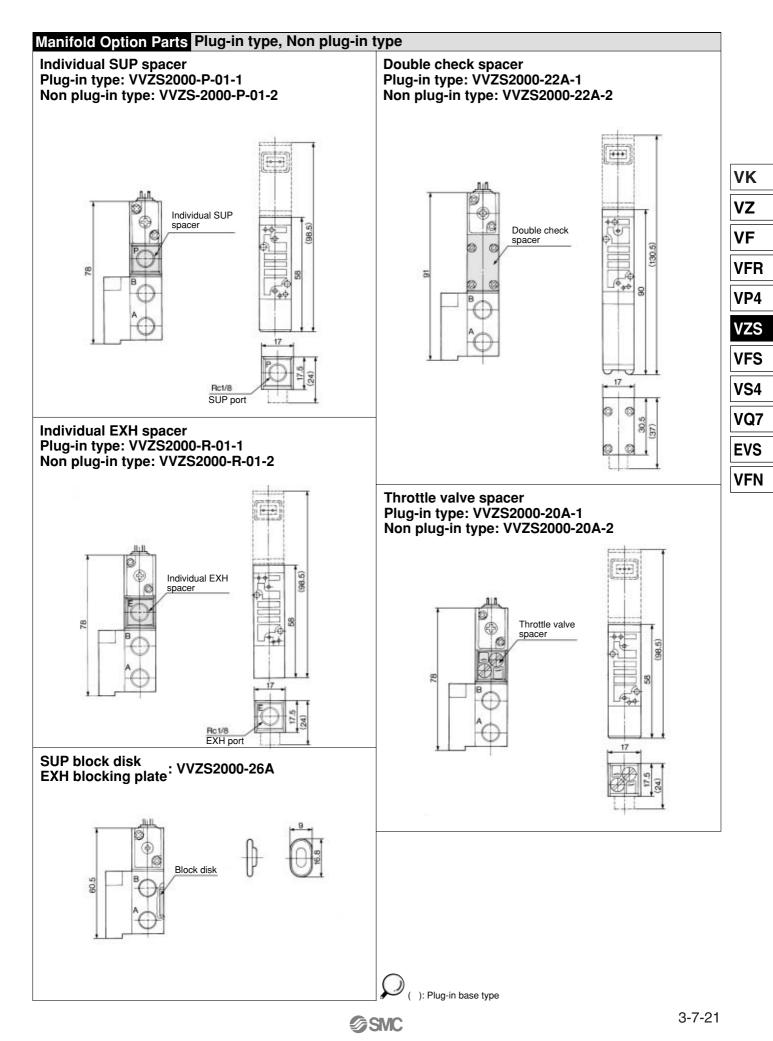
How to Order







5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VZS2000



Exploded View of Manifold

