

SMC SMC

Manifold Specifications

Base model	Wiring	Porting specifications 4(A), 2(B) Port	Port size 1(P), 5(R1) 3(R2)	Rc 4(A) 2(B)	Stations	Applicable valve model
Plug-in type VV5ZS3-51F VV5ZS3-51G	With D-sub connector With attachment plug lead wire			1⁄8, 1⁄4	2 to 16 stations	VZS3□50-□FZ
Non plug-in type VV5ZS3-51	Grommet L plug connector M plug connector K plug connector DIN terminal	Side	1/4	C4 C6	2 to 24 stations	G L VZS3□50-□ M KZ D

* With attachment plug lead wire teminal: 15 stations max.

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

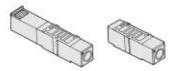
Passage	e/Stations	Station 1	Station 5	Station 10	Station 15	Station 20
$1 \rightarrow 4/2$	C [dm ³ /(s·bar)]	2.7	2.7	2.7	2.7	2.6
	b	0.15	0.16	0.16	0.15	0.20
$(P \rightarrow A/B)$	Cv	0.62	0.61	0.61	0.61	0.63
$4/2 \rightarrow 5/3$	C [dm ³ /(s·bar)]	2.8	2.8	2.9	2.9	2.9
$(A/B \rightarrow R1/R2)$	b	0.10	0.12	0.12	0.12	0.12
$(A/B \rightarrow R I/R2)$	Cv	0.65	0.66	0.66	0.66	0.66

Manifold Option Parts Assembly

Individual SUP spacer

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

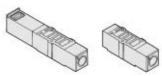
Body type		Plug-in type	Non plug-in type						
Part	Rc 1/8	VVZS3000-P-01-1	VVZS3000-P-01-2						
	Rc 1/4	VVZS3000-P-02-1	VVZS3000-P-02-2						



Individual EXH spacer

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

Body type		Plug-in type	Non plug-in type				
Part no.	Rc 1⁄4	VVZS3000-R-02-1	1 0 11				
	A						



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
Part no.	AXT62	25-12A
	ß	

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.

Body type	Plug-in type	Non plug-in type					
Part no.	AXT625-12A						
A							

Interface regulator (P port regulation) Spacer Interface regulators can be placed

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.	ARBZS3000-00-P-1	ARBZS3000-00-P-2
Note)• Apply pressure fro	om the P port of the

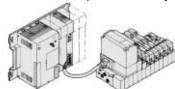
base to operate the interface regulator.
To use concurrently with a double check

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 base type

- Solenoid valve wiring process reduced considerably.
- Disperse installation possible. Manifold solenoid valve: 32 stations (512 points) max.
- Maintenance and inspection are easy.



For details, please contact SMC.

How to Order Manifold Assembly

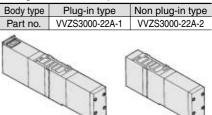
Please indicate manifold base type, corresponding valve, and option parts.

(Example)

- Plug-in type (At 6 stations) (Manifold base) VV5ZS3-51FD-061-01·····1 (2 position single) VZS3150-5FZ······3 (2 position double) VZS3250-5FZ······2 (Blanking plate) VVZS3000-10A-1······1
- Non plug-in type (At 6 stations) (Manifold base) VV5ZS3-51-061-01.....1 (2 position single) VZS3150-5G.....5 (3 position exhaust center) VZS3450-5G....1 (Individual EXH spacer) VVZS3000-R-02-2...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.



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.

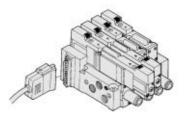
F								
Body type	Plug-in type	Non plug-in type						
Part no.	VVZS3000-10A-1	VVZS3000-10A-2						
	2000-04							



With coaxial fitting

Plug-in base type/Non plug-in base type

- Piping man-hours reduced
- One-touch piping
- 1/2 the number of tubes

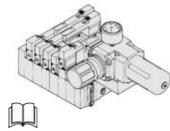


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Manifold Option

With control unit

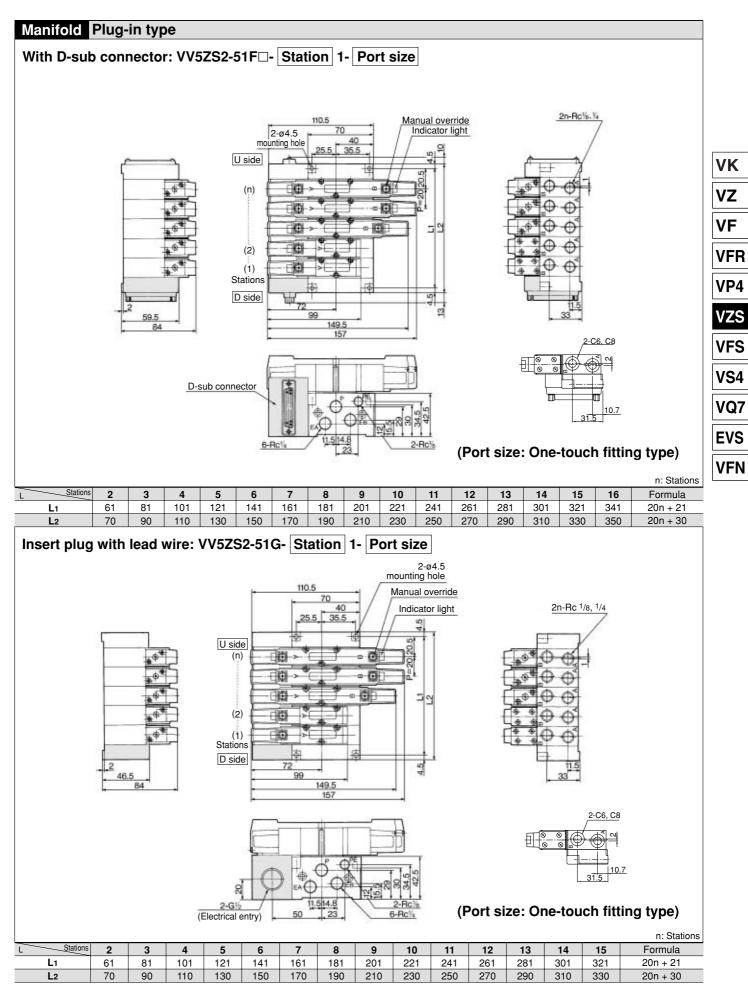
- Plug-in base type/Non plug-in base type
 Filter, regulation valve, pressure switch and air release valve all combine to form one unit.
- · Piping processes are eliminated.

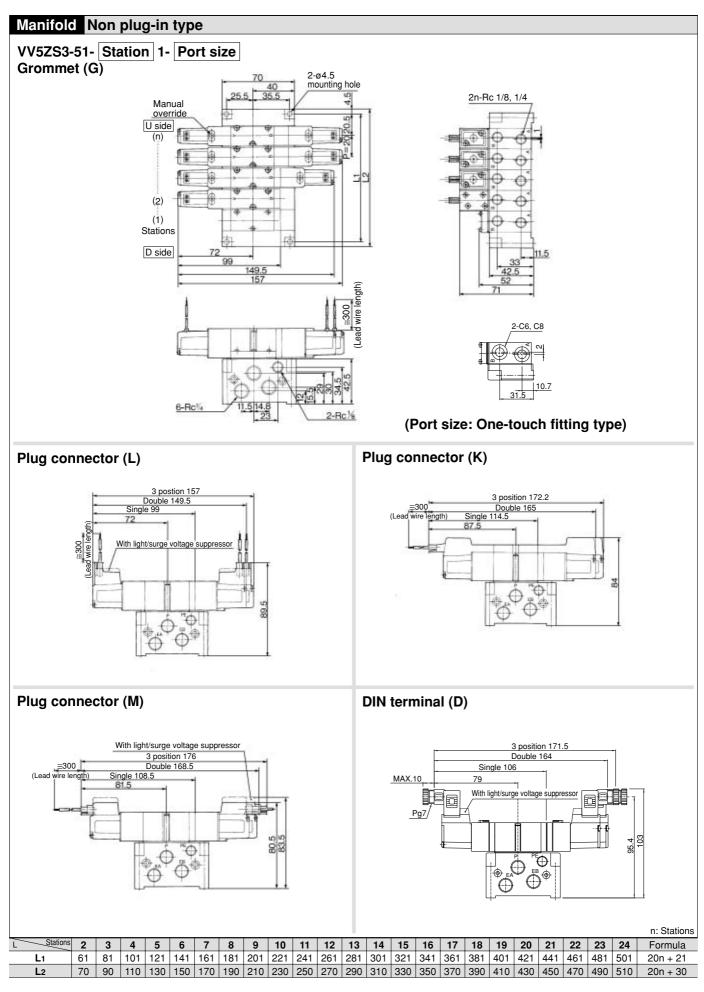


For details, refer to pages 3-7-35 and 3-7-36.



5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VZS3000







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Manifold with Control Unit

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







Non plug-in type

A Caution

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

Manifold Specifications

Base model		Wiring	Porting specifications			Stations	Applicable valve model
	-		A, B port	P, EA, EB	А, В		valve model
Plug-in type VV5ZS3-51F VV5ZS3-51G		n D-sub connector attachment plug lead wire			Rc 1⁄8, 1⁄4	2 to 16 stations	VZS3□50-□FZ
Non plug-in type VV5ZS3-51	• L pl • M p	mmet ug connector lug connector lug connector	Side	Rc 1⁄4	C6 C8	2 to 24 stations	G VZS3⊡50-□ L M KZ
1							
Control Unit	Spe	cifications	C	ontrol	Unit/	Option	
	<u> </u>	cifications	<u>C</u>	ontrol	Unit/	Option MP:	
	<u> </u>		C	ontrol		MP:	
Air filter (With aut	<u> </u>	/With manual drain)		ontrol		MP:	2-2 /Filter regulator)
Air filter (With aut Filtration degree	to-drair	n/With manual drain) 5 μm	BI	_	(With c	MP: control unit VVZS20	2-2 /Filter regulator)
Air filter (With aut Filtration degree Regulator	to-drair	n/With manual drain) 5 μm	BI	anking	(With c	MP: ontrol unit VVZS20 With press	2-2 /Filter regulator) 000-15A
Air filter (With aut Filtration degree Regulator Set pressure (Outlet pr	to-drain	n/With manual drain) 5 μm	BI	anking	(With c	MP: ontrol unit VVZS20 With press	2-2 /Filter regulator) /00-15A ure switch) 0-24A-10- ¹ 2
Air filter (With aut Filtration degree Regulator Set pressure (Outlet p Pressure switch	to-drain ressure) e: OFF	n/With manual drain) 5 μm 0.05 to 0.85 MPa	Bl.	anking	(With c	MP: control unit VVZS20 With press VVZS3000 (Releas	2-2 /Filter regulator) 00-15A ure switch) $-24A-10-\frac{1}{2}$ e valve)
Air filter (With aut Filtration degree Regulator Set pressure (Outlet p Pressure switch Set pressure range	to-drain ressure) e: OFF	n/With manual drain) 5 μm 0.05 to 0.85 MPa 0.1 to 0.4 MPa	a pla	anking ate	(With c	MP2 control unit VVZS20 With press VVZS3000	2-2 /Filter regulator) 00-15A ure switch) $-24A-10-\frac{1}{2}$ e valve)
Air filter (With aut Filtration degree Regulator Set pressure (Outlet p Pressure switch Set pressure range Differential press	to-drain ressure) e: OFF ure	h/With manual drain) 5 μm 0.05 to 0.85 MPa 0.1 to 0.4 MPa 0.08 MPa	a pla	anking ate	(With c	MP: control unit VVZS20 With press VVZS3000 (Releas	2-2 /Filter regulator) /00-15A ure switch) 0-24A-10- ¹ / ₂ e valve) 11-5B
Air filter (With aut Filtration degree Regulator Set pressure (Outlet p Pressure switch Set pressure range Differential pressu Contact	ressure) e: OFF ure city	/With manual drain) 5 μm 0.05 to 0.85 MPa 0.1 to 0.4 MPa 0.08 MPa 1a	a pla a pla Fil ele C Pr	anking ate	(With c	MP: control unit VVZS20 With press VVZS3000 (Releas 11151	2-2 /Filter regulator) /00-15A ure switch) 0-24A-10-1 e valve) 11-5B

How to Order

100 VAC, DC or less

0.1 to 1.0 MPa

Operating voltage

Air release valve (Single only)

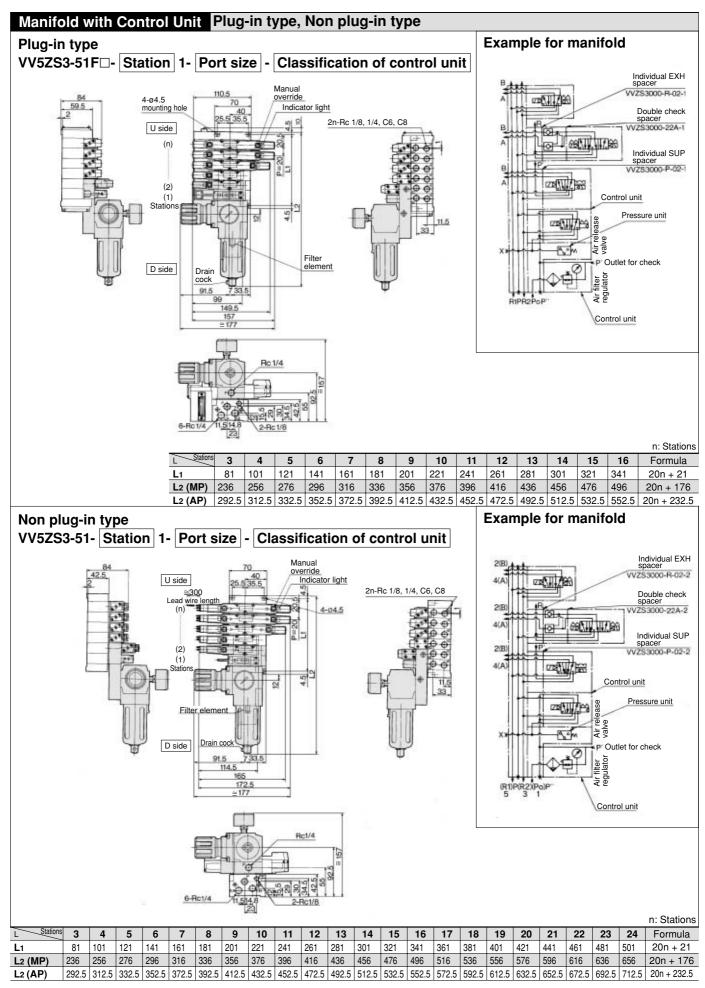
Operating pressure range

switch Non plug-in type IS1000-00-X204

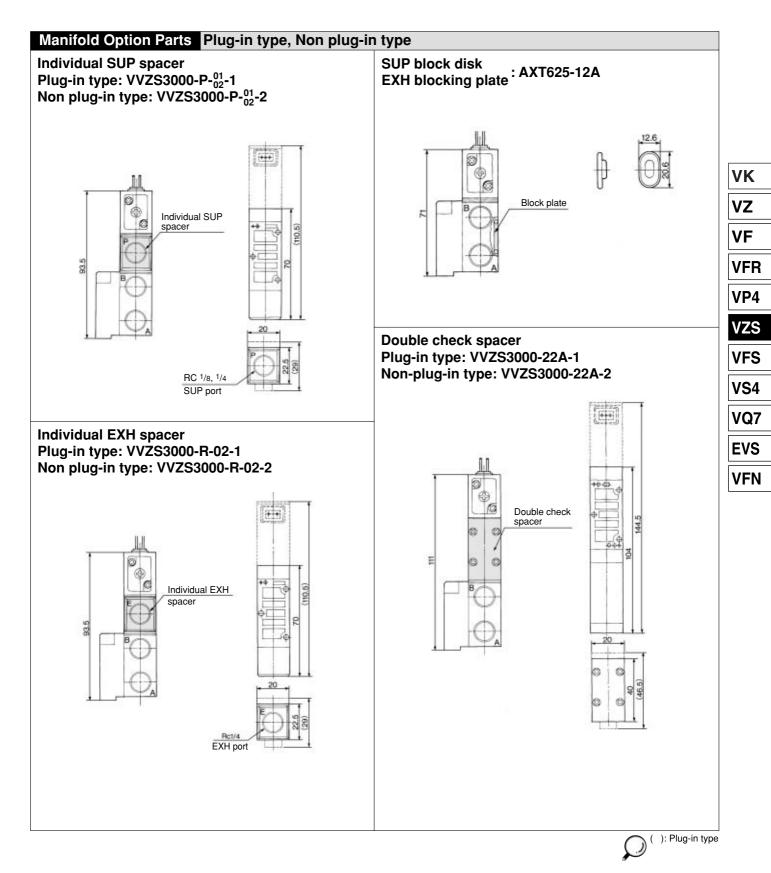
VZ VF VFR VP4 VZS VFS VS4 VQ7 EVS VFN

VK

V	V5ZS	3-51	FD	- 0	8 1	- 0	1		٩P	5										
Base 51F 51G 51 Coni	Stacking type with attachmen Non plug Stacking type	cal entry • n type: connector n type: manifold base type: manifold base manifold base manifold base	ection •						Contro Air filte Air filte Air re Press Blanki Blanki Blanki Numb	I equipment regulator wit regulator wit lease valve sure switch ing plate (Air ing plate (Filte ing plate (Filte er of manifold ed for mountir	Nil 1 2 5 9* * Option t types * option * opt	200 24 n n n n n n n n n n n n n n n n n n	N VAC VAC VAC 4 VD C	None C, 50/ C, 50/	60 H	z	- No - Ho - the - rel - sa - the - eq	ote) ow to e lead lease .me n e ot	tał wire valve meth her ed o	e out of air is the od as valve n the ld. E
02 : 24 Note) 51F… 51G…	Both sides	Symbol F 1(P) 1 Commo	9 to 16 Passage 5(R1), 3(R n Commor	Porting sp R2) 4(A)	nbol • vecifications , 2(B) ide		01 02 C6 Emb A C8 Emb	ttandard Nil N Dption T F	Ad type ad type F NF NP 0 1/8 1/4 0 One-touc ubing O.D	Note) Oper	•	dicate n n parts. e> type wi d base on sing on dou ns are n ug-in typ d base fon sing	th D- le) ble) need e le)	-sub c VV5 VZS VZS led to VV5 VZS	conn 22S3 3150 3250 mot 32S3 3150	ype, o -51F 0-5F 0-5F unt c -50-0 0-5G	r D-09 Z Z contro 071	91-01 ol uni	I-MF	valve, 251



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Exploded View of Manifold

