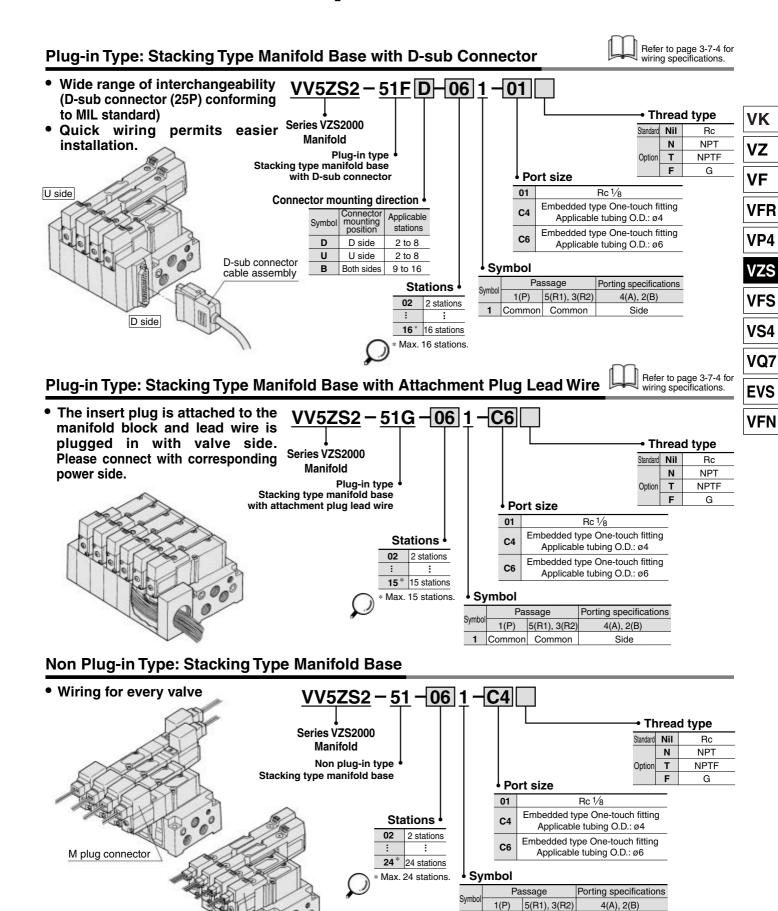
K plug connector

Manifold Specifications



多SMC

4(A), 2(B)

Common Common

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 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)

Passage	e/Stations	Station 1	Station 5	Station 10	Station 15	Station 20
1 → 4/2	C [dm3/(s·bar)]	1.3	1.4	1.4	1.4	1.4
$P \rightarrow 4/2$ (P \rightarrow A/B)	b	0.12	0.12	0.12	0.12	0.14
$(F \rightarrow A/B)$	Cv	0.31	0.33	0.33	0.35	0.36
4/2 → 5/3	C [dm3/(s·bar)]	1.5	1.6	1.6	1.6	1.5
$(A/B \rightarrow R1/R2)$	b	0.12	0.11	0.11	0.10	0.11
(A/D → 111/112)	Cv	0.37	0.36	0.36	0.36	0.35

How to Order Manifold Assembly

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

(Example)

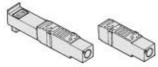
- Plug-in type (At 6 stations)
 (Manifold base) VV5ZS2-51FD-061-01...1
 (2 position single) VZS2150-5FZ.......3
 (2 position double) VZS2250-5FZ......2
 (Blanking plate) VVZS2000-10A-1.....1
- Non plug-in type (At 6 stations) (Manifold base) VV5ZS2-51-061-01....1 (2 position single) VZS2150-5G.......5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

Manifold Option Parts Assembly

Individual SUP spacer

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

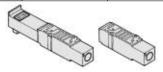
Body type		Plug-in type	Non plug-in type		
Part no.	Rc 1/8	VVZS2000-P-01-1	VVZS2000-P-01-2		



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.	Rc1/8	VVZS2000-R-01-1	VVZS2000-R-01-2		



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.	VVZS20	000-26A

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.	VVZS20	000-26A



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				



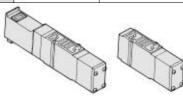
 Apply pressure from the P port of the base to operate the interface regulator.

 To use concurrently with a double check spacer, assemble in the following order: the valve, the interface regulator, and the double check spacer.

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.

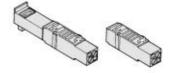
Body type	Plug-in type	Non plug-in type
Part no. VVZS2000-22A-1		VVZS2000-22A-2



Throttle valve spacer

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

Body type	Plug-in type	Non plug-in type
Part no.	VVZS2000-20A-1	VVZS2000-20A-2

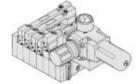


Manifold Option

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.

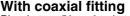


For details, refer to pages 3-7-19 and 3-7-20.

With serial interface unit for serial transmission

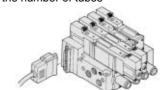
Plug-in type

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

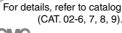


Plug-in type/Non plug-in type

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

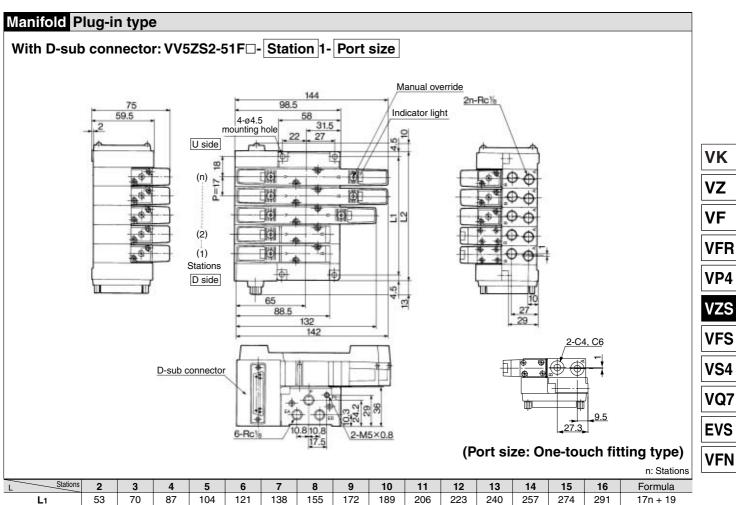


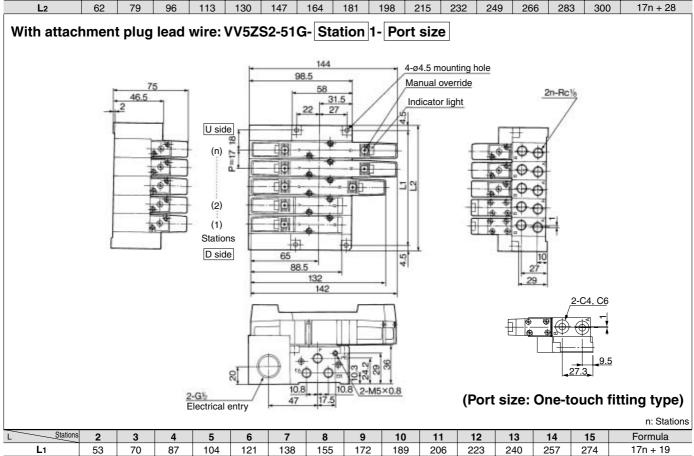
For details, refer to catalog (CAT. 02-5).





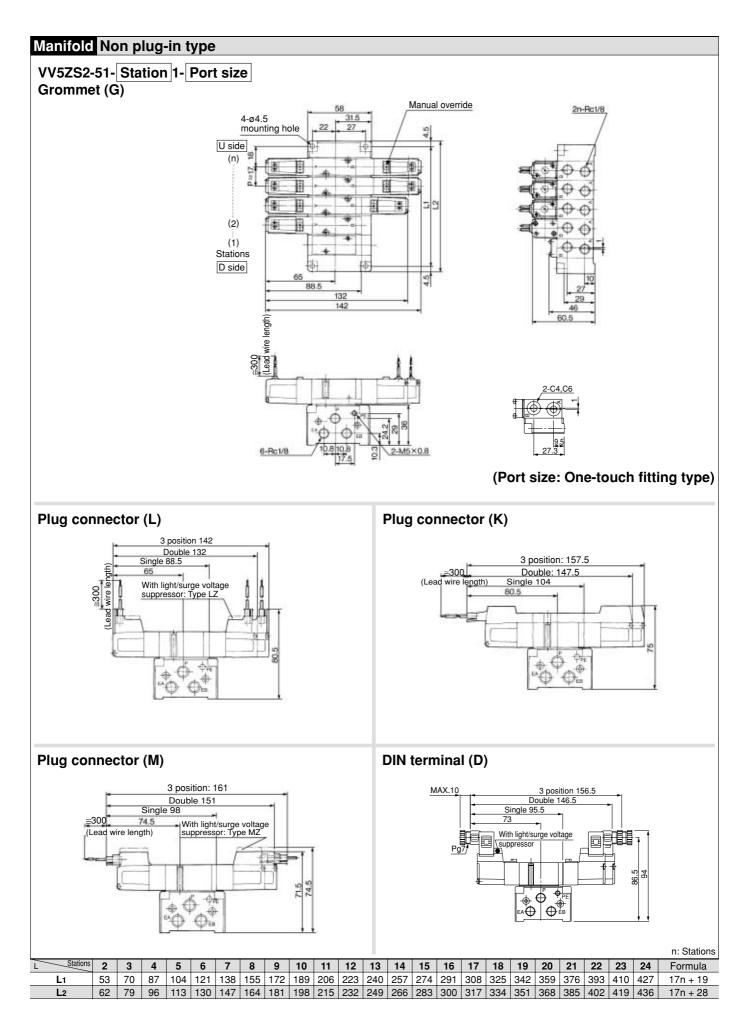
5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VZS2000





L2

17n + 28



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.



Plug-in type



Non plug-in type

⚠ Caution

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

Manifold Specifications

Base model	Wiring	Porting specifications 4(A), 2(B) port	Port siz 1(P), 5(R1) 3 (R2)	_	Stations	Applicable valve model
Plug-in type VV5ZS2-51F VV5ZS2-51G	With D-sub connector With attachment plug lead wire			Rc 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	Side	Rc 1/8	C4 C6	2 to 24 stations	G VZS2□50-□ ^L M KZ

With attachment plug lead wire: 15 stations max.

Control Unit Specifications

Air filter (With auto-drain/With manual drain)			
Filtration degree	10 μm		
Regulator			
Set pressure (Outlet pressure)	0.05 to 0.7 MPa		
Pressure switch			
Set pressure range: OFF	0.1 to 0.4 MPa		
Differential pressure	0.08 MPa		
Contact	1a		
Max. switch capacity	2 VA AC, 2 W DC		
Max. operating current	24 VAC, DC or less: 50 mA		
Max. operating current	100 VAC, DC: 20 mA		
Operating voltage	100 VAC, DC or less		
Air release valve (Sin	gle only)		
Operating pressure range	0.1 to 1.0 MPa		

Control Unit/Ontion

Control Cint/Option	
Blanking plate	MP2-1
	(With control unit/Filter regulator)
	VVZS2000-15A
	(With pressure switch)
	VVZS2000-24A-10-1
	(Release valve)
Filter element	XTO-1889-10
Pressure switch	Plug-in type
	VVZS2000-14A
	Non plug-in type
	IS1000-00-X204

VS4

۷K

VZ

VF

VFR

VP4

VZS

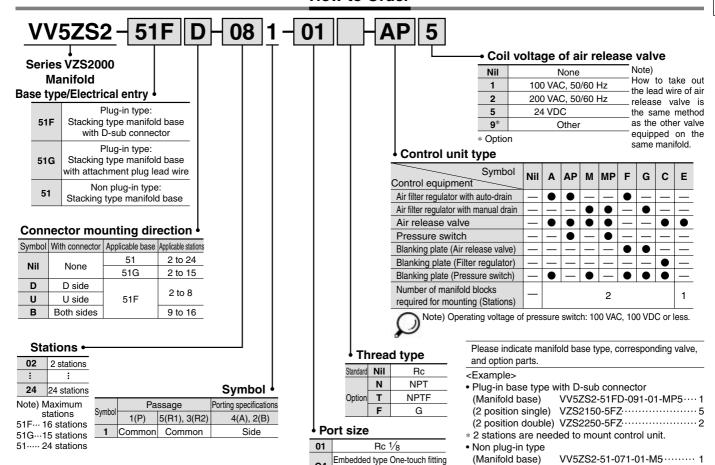
VFS

VQ7

EVS

VFN

How to Order

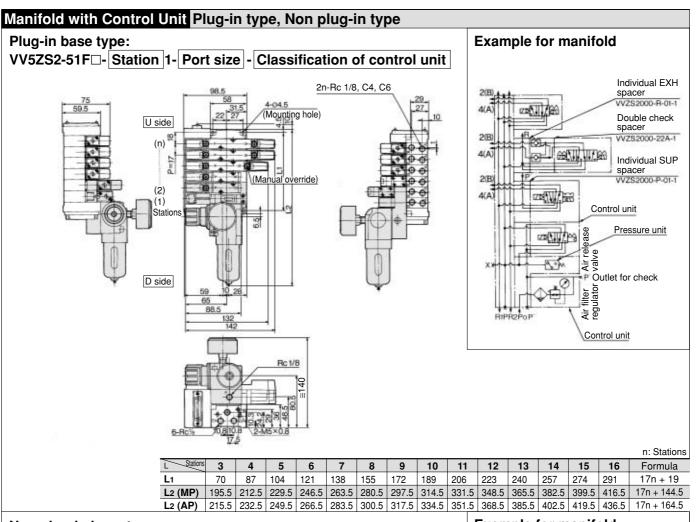


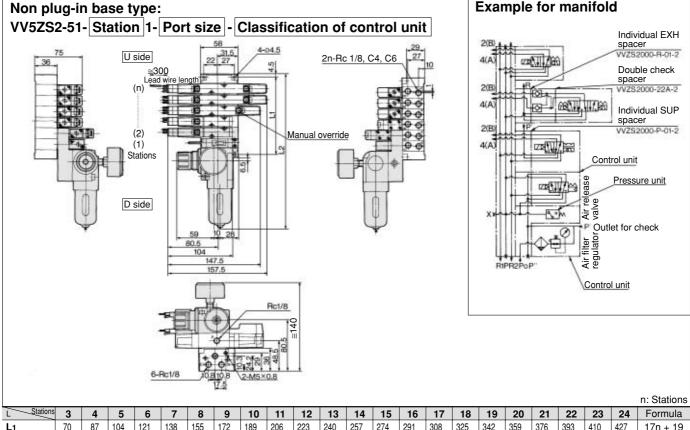
Applicable tubing O.D.: ø4

Embedded type One-touch fitting Applicable tubing O.D.: ø6

C4

(2 position single) VZS2150-5MZ······5 * 2 stations are needed to mount control unit.





 314.5 331.5 348.5 365.5 382.5 399.5 416.5 433.5 450.5 467.5 484.5 501.5 518.5 535.5 552.5 17n + 144.5

402.5 | 419.5 | 436.5 | 453.5 | 470.5 | 487.5 | 504.5 | 521.5 | 538.5 | 555.5 | 572.5 | 17n + 164.5

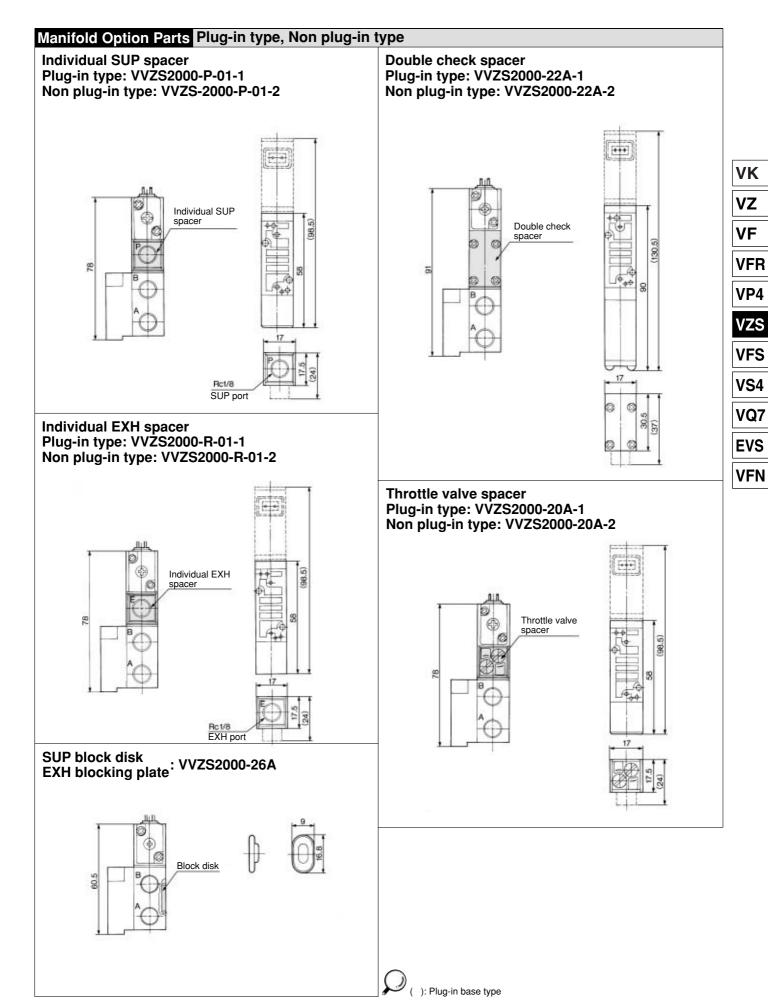
195.5 | 212.5 | 229.5 | 246.5 | 263.5

215.5 | 232.5 | 249.5 | 266.5 | 283.5

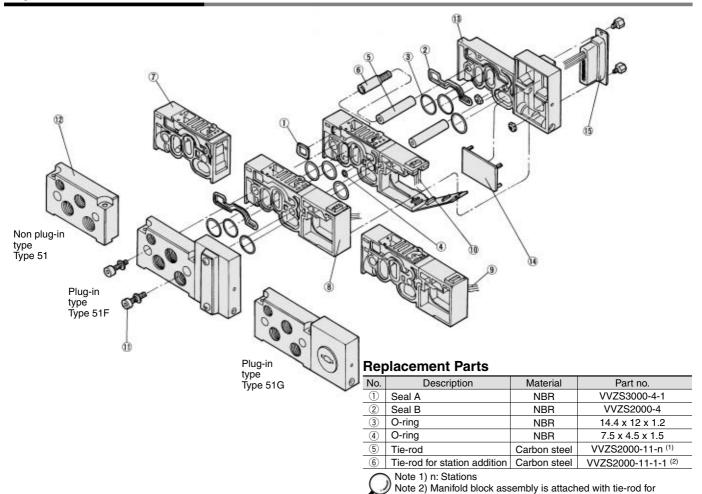
280.5 297.5

300.5 | 317.5 | 334.5 | 351.5 | 368.5 | 385.5

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



Exploded View of Manifold



Applicable manifold base Description Assembly part no. Component parts Plug-in type Manifold block 7, Junction box 8, Lead wire assembly 9 VVZS2000-1A-1-Port size (1) With attachment plug lead wire: Type 51G Tie-rod 6, O-ring 3, 4, Seal A 1 Manifold block Manifold block 7, Tie-rod 6, O ring 3, 4, Seal A 1 Non plug-in type: Type 51 VVZS2000-1A-2-Port size (1) assembly Plug-in type Manifold block 7, Junction box 8, Lead wire assembly 10 VVZS2000-1A-3-Port size (1) (-1) (2) With D-sub connector: Type 51F* Tie-rod 6, O-ring 3, 4, Seal A 1

Note 1) Bore-01: Rc 1/8, -C4: Embedded type One-touch fitting for ø4, -C6: Embedded type One-touch fitting for ø6.

Note 2) Refer to page 3-7-5 for the model of D-sub connector type manifold block assembly

How to Increase Manifold Base

Arrange an applied manifold block assembly.

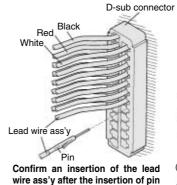
- 1. Loosen the bolt ① and remove the end plate ② or ③ in the side added with manifold block.
- 2. Joint the tie-rod 6 to increase stations and add manifold block assembly. (Put packing B ② on the surface contacting to the end plate.)
- 3. For a style with a D-sub connector, open the cover (4) and insert the pin of lead wire assembly 10 as shown in the right figure.

(4. Mount the end plate 1 and 3 and tighten the bolt 1).

Note 1) Be careful that the packing and the O-ring do not fall out of the groove. Note 2) The tightening torque of bolt 11 should be 2 to 2.2 N.

Insertion Method for Pin of D-Sub Connector

increasing stations.

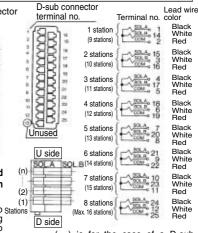


wire ass'y after the insertion of pin by light pulling of the lead wire.

> Note 1) Regardless of the D-sub Stations connector mounting position, stations are to be counted from D side

as the 1st one.

Note 2) D-sub connector can use up to 8 stations in on side fitting (Type F^D_U). More than 9 stations are for both sides fitting (Type FB).



() is for the case of a D-sub connector for both sides (Type FB).

