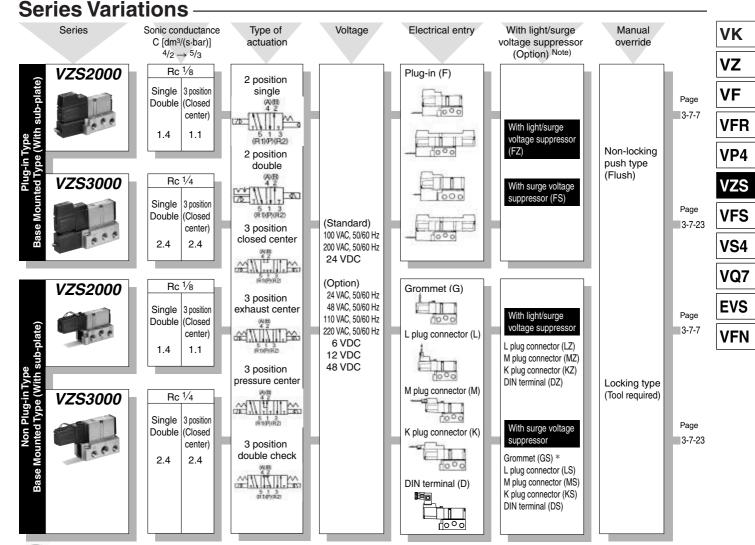
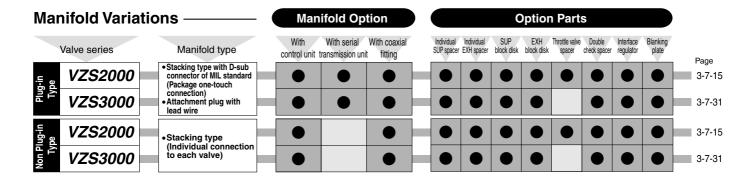


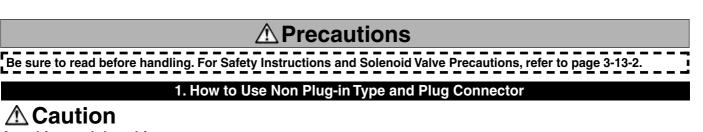
# 5 Port Pilot Operated Solenoid Valve Metal Seal Series VZS



Protective circuit is connected in the course of the lead wire. Note) The plug-in type and K plug connector type are taken as standard with light/surge voltage suppressor.



# Series VZS2000/3000



#### Attaching and detaching connectors

#### 1. Attaching

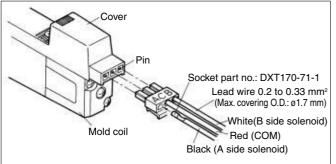
To attach a connector, hold the lever and connector unit between your fingers and insert straight onto the pins of the solenoid valve so that the lever's pawl is pushed into the groove and locks.

#### 2. Detaching

To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb, and pull the connector straight out.

#### L/M Plug Connector Type Mold coil Concave Pin Cover Lever DC polarity indication Socket part no.: DXT170-71-1 Pin Connector Lead wire 0.2 to 0.33 mm<sup>2</sup> Cover (Max. covering Red Black O.D.: ø1.7 mm) Μ DC coils are + Red and - Black.

#### K Plug Connector Type



#### L/M plug connector assembly

D	DXT170-80-A-Lead wire Lead wire color						
	Symbol	Lead wire with socket	Note		Symbol	Lead wire length (mm)	
	Nil	Socket only	Without		Nil	300	
	INII	(2 pcs.)	lead wire		6	600	
	1	Blue (2)	For 100 VAC		10	1000	
	2	Red (2)	For 200 VAC		15	1500	
	3	Gray (2)	Another VAC		20	2000	
	4	Red: +, Black: -	For DC		25	2500	
					30	3000	

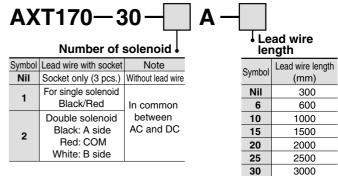
Note) When ordering a valve in which the length of the wire is more than 600 mm, be sure to indicate the model number of valve without connector and connector assembly.

Ex.) For lead wire length (1000 mm)

VZS3150-5MO-02----3 pcs.

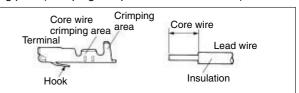
DXT170-80-4A-10----3 pcs.

### K plug connector assembly



#### Crimping of lead wires and sockets

Peel 3.2 to 3.7 mm of the tip of lead wire, enter the core wires neatly into a socket and crimp it with a special crimp tool. Be careful so that the cover of lead wire does not enter into the crimping part. (Crimping tool part no.: DXT170-75-1)

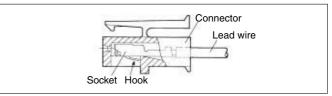


# Attaching and detaching lead wires with sockets 1. Attaching

Insert the sockets into the square holes of the connector (with + and - indication) and, continue to push the sockets all the way in until the lock by hooking into the seats in the connector. (When they are pushed in, their hooks open and they are locked automatically.) Then confirm that they are locked by pulling lightly on the lead wires.

#### 2. Detaching

To detach a socket from a connector, pull out the lead wire while pressing the socket's hook with a stick having a thin tip (approx. 1 mm). If the socket will be used again, first spread the hook outward.



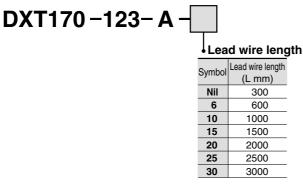
# **▲** Caution

#### Connector assembly with protective Cover

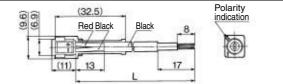
Connector assembly with protective cover enhances dust protection

- Effective to prevent short circuit accidents due to penetration of foreign matter into the connector section.
- The material of cover is chloroprene rubber for electricity which is excellent in weathering and electrical insulating properties. But don't splash with cutting oil.
- Simple and unencumbered appearance by adopting round-shaped cord.

#### How to Order



#### Dimensions: Connector Assembly with Cover



#### How to wire DIN terminal

#### Connection

- 1. Loosen the set screw and pull out the connector from the terminal block of the solenoid.
- **2**. Pull out screw and insert a screwdriver to the slit area near the bottom of terminal block to separate block and housing.
- **3.** Loosen the terminal screws (slotted screws) on the terminal block, insert the core of the lead wire into the terminal in accordance with the prescribed connection method, and attach securely with the terminal screws.
- 4. Tighten the ground nut to secure the wire.

#### Change of electrical entry (Orientation)

After separating terminal block and housing, the cord entry direction can be changed by attaching the housing in the desired direction (4 directions in  $90^{\circ}$  increments).

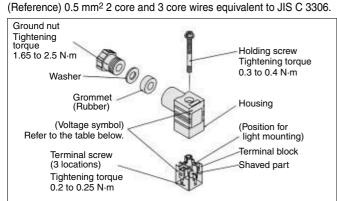
\* In the case of w/ indicator light, avoid damaging the indicator light with lead wire.

#### Precautions

Plug a connector in or out vertically, never at an angle.

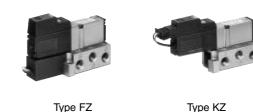
#### Applicable cable

#### O.D.: ø3.5 to ø7



### 2. Light/Surge Voltage Suppressor

#### Plug-in Base Type/K Plug Connector

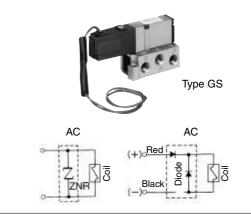


With indicator light (AC)

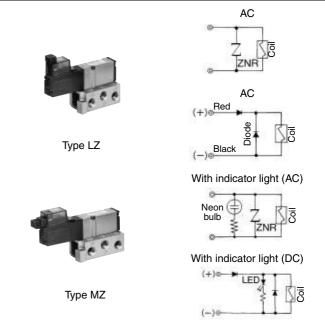
With indicator light (DC)

Due to the use of non-polar light, the VZS series has no polarity.

#### **Grommet Type**

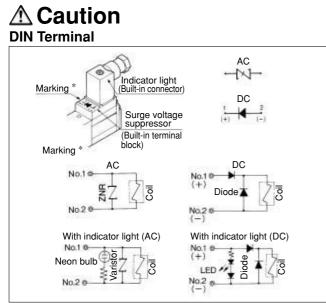


#### L/M Plug Connector Type



In applications where the supply voltage is DC, correctly connect the lead wires to + (positive) and – (negative) indications on the connector. For those on which the lead wires have been pre-wired, the plus side is red and minus side is black.

# Series VZS2000/3000

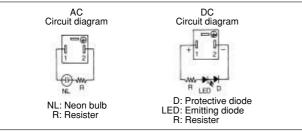


In the case of DC wiring, connect terminal no. 1 of the connector to the positive (+) side, and terminal no. 2 to the negative (-) side. (Refer to the marks on the terminal board.)

#### **DIN Terminal Part No.**

Without indicator	r light	DXT170-176-1							
With Indicator Li	With Indicator Light								
Rated voltage	Voltage symbol	Part no.							
100 VAC	100V	DXT170-176-2-01							
200 VAC	200V	DXT170-176-2-02							
110 VAC	110V	DXT170-176-2-03							
220 VAC	220V	DXT170-176-2-04							
240 VAC	240V	DXT170-176-2-07							
6 VDC	6VD	DXT170-176-3-51							
12 VDC	12VD	DXT170-176-3-06							
24 VDC	24VD	DXT170-176-3-05							
48 VDC	48VD	DXT170-176-3-53							

#### **Circuit with Indicator Light**



#### 3. Wiring Specifications

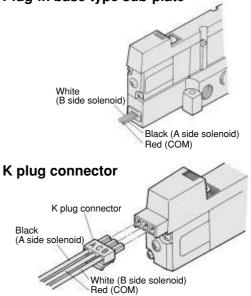
#### Single unit

Since the sub-plate of plug-in base type and the lead wire of K plug connector type are connected with valves as shown in the following table, they should be connected with each power side. Since DC has no polarity, the polarity of COM is possible for either + or -.

#### Lead Wire Color

Valve	Single solenoid type	Double, 3 position type				
valve	A side solenoid	side solenoid A side solenoid				
Lead wire color	Black: A Red: COM	Black: A Red: COM	White: B Red: COM			

#### Plug-in base type sub-plate



Single solenoid style has 2 leads of red and blue.

#### 4. Wiring Specifications

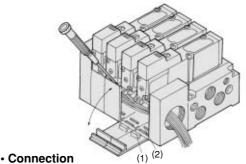
#### Manifold base

#### Type 51G with D-sub connector

#### How to open a junction cover

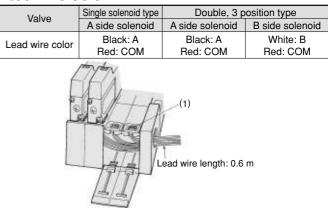
Open the cover by inserting a flat headed screwdriver to the upper part of junction cover as shown in the figure. For closing, close by pushing the cover until the application of the hook is heard.

Note) Forced pulling of the cover may remove it. In this case, there is no problem closing the cover to put (1) the projection into (2) the groove.



Manifold block is equipped (1) attachment plug and lead wire is connected (plug-in) with the valve side as shown in the following table. The lead wires should be connected with each power side. Since DC has no polarity, the polarity of COM is possible for either + or -.

#### Lead Wire Color





5

VK

٧Z

VF

VFR

VP4

VZS

VFS

VS4

VQ7

EVS

VFN

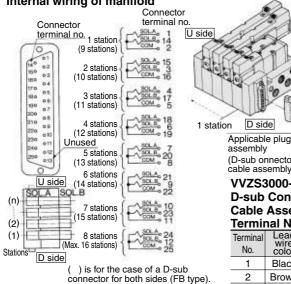
# A Caution

#### Type 51F with D-sub connector

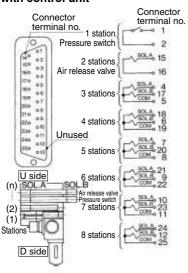
- Use of D-sub connector for electric connection system leads to rationalization and labor saving in the connection work. Because MIL standard D-sub connector (25 pin) is used as the connector, a wide interchangeability is obtainable.
- Wiring specifications

The inside of the manifold is wired with connector terminals on the solenoid A side and B side according to COM specification as shown in the following diagram. Since DC has no polarity, the polarity of COM is possible for either + or -.

#### Internal wiring of manifold



Inside wiring of manifold with control unit



assembly							
(D-sub or cable ass	nnector						
	3000-21	Δ_*					
	Conne						
Cable Assembly							
Terminal No.							
Terminal	Lead	Dot					
No.	wire	marking					
1	Black	None					
2	Brown	None					
3	Red	None					
4	Orange	None					
5	Yellow	None					
6	Pink	None					
7	Blue	None					
8	Purple	White					
9	Gray	Black					
10	White	Black					
11	White	Red					
12	Yellow	Red					
13	Orange	Red					
14	Yellow	Black					
15	Pink	Black					
16	Blue	White					
17	Purple	None					
18	Gray	None					
19	Orange	Black					
20	Red	White					
21	Brown	White					
22	Pink	Red					
23	Gray	Red					
24	Black	White					
25	White	None					

Note 1) Regardless of the D-sub connector mounting position, stations are to be counted from D side as the 1st one.

Note 2) The maximum number of stations is 8 stations in a D-sub connector one side fitting (Type F<sup>D</sup><sub>U</sub>) and is 16 stations in both sides fitting (Type FB). By COM specifications, maximum 24, stations are possible.

#### **Applicable Plug Assembly** (D-sub connector cable assembly) (Option)

•	<b>7</b> / \ 1	,
Cable length	Assembly part no.	Component parts
1.5 m	VVZS3000-21A-1	Plug MIL standard
3 m	VVZS3000-21A-2	D-sub connector D-sub connector
5 m	VVZS3000-21A-3	Number of terminals: 25
8 m	VVZS3000-21A-4	Cable: 25 cores x 0.3 mm <sup>2</sup>

#### 5. Replacement

#### Replacement of solenoid valves

Loosen the fitting machine screws of solenoid valve and then pull out the solenoid valve body in a straight line.

A clamping torque of the fitting machine screws should be 40 to 50 N·m.

#### How to Calculate the Flow Rate

For obtaining the flow rate, refer to page 3-1-10.

#### 6. D-Sub Connector Manifold Block Assembly

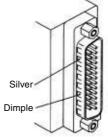
#### Precautions for ordering

• The shape of the D-sub pin of the lead cable assembly that is provided with the D-sub connector timer manifold block assembly has been newly changed.

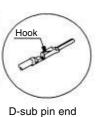
When ordering a manifold block assembly, verify whether it is the old or the new style, and use the part numbers listed below. All lots have been changed to the new style starting with the February, 1997 shipment (Lot no. BP).

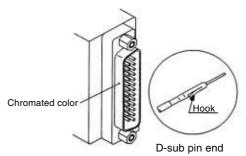
#### New/Conventional D-sub connector

	Color	Appearance	Manufacturer
New D-sub connector	Silver	With dimple	JST Manufacturing Corp. Ltd.
Conventional D-sub connector	Chromated	Without dimple	Hirose Electric Co., Ltd.



<New style>





<Conventional style>

### New/Conventional manifold block assembly part no.

For VZS2000 New block assembly part no. (N) VVZS2000-1A-3-Bore size-1 (-X12) Conventional block assembly part no. (N) VVZS2000-1A-3-Bore size (-X12) For VZS3000

New block assembly part no. (N) VVZS3000-1A-3-Bore size-1 (-X12) Conventional block assembly part no. (N) VVZS3000-1A-3-Bore size (-X12) Note) "-X12" shows the part no. for all common style.

### **A** Caution 7. Part number for Screws and Gasket Assembly

#### Precautions on ordering

• The interface gasket configuration between valve manifolds has been changed in line with the configuration changes of the valve interface. When ordering screw and gasket assembly part numbers, confirm the new and old valve interface and then order with the following part number.

All lots have been changed to the new style starting with the April, 2001 shipment (Lot no. FR).

#### · How to confirm the new and old valves interface

	Valve interface		
New	With gasket groove		
Old	Without flat surface groove		

#### · Screw, gasket assembly part no.

For VZS2000

- New: BG-VZS2000-1 (Ditch groove):
  - Set of gasket 1 pc. and mounting screw 2 pcs.
- Old: BG-VZS2000 (Plate gasket):
  - Set of gasket 1 pc. and mounting screw 2 pcs.
- For VZS3000
  - New: BG-VZS3000-1 (Groove gasket):
    - Set of gasket 1 pc. and mounting screw 3 pcs.
  - Old: BG-VZS3000 (Plate gasket):
    - Set of gasket 1 pc. and mounting screw 3 pcs.

### For details about certified products CE For details about continue processing to international standards, visit us at <u>www.smcworld.com</u>.

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

#### Model

mou												
			Dentelas		Flow characteristics				. (1)	(2)	(3)	
Туре	of actuation	Model	Port size	$1 \rightarrow 4/2$	$1 \rightarrow 4/2 (P \rightarrow A/B)$ $4/2 \rightarrow$		$4/2 \rightarrow 5/3$	5/3 (A/B $\rightarrow$ R1/R2)			Response	Weight
			Rc	C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm <sup>3</sup> /(s·bar)]	b	Cv	cycle (CPM)	time (ms)	(kg)
sition	Single	VZS2150	1⁄8	1.2	0.12	0.28	1.4	0.19	0.33	1200	17 or less	0.14
2 position	Double	VZS2250	1⁄8	1.2	0.12	0.28	1.4	0.19	0.33	1200	13 or less	0.19
	Closed center	VZS2350	1⁄8	0.90	0.23	0.21	1.1	0.17	0.27	600	22 or less	0.2
position	Exhaust center	VZS2450	1⁄8	1.1	0.12	0.25	1.3	0.13	0.31	600	22 or less	0.2
3 pos	Pressure center	VZS2550	1⁄8	1.2	0.12	0.26	1.4	0.19	0.33	600	22 or less	0.2
	Double check	VZS2650	1⁄8	0.71	_	_	0.81	_	_	500	26 or less	0.3

Note 1) Min. operating cycle is based on JIS B 8375 (One time per 30 days).

Note 2) Response time is based on JIS B 8375-1981. (0.5 MPa, without light/surge voltage suppressor) Note 3) For VZS2□50-□FZ-01

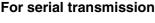
Note 4) "Note 1" and "Note 2" are with controlled clean air.

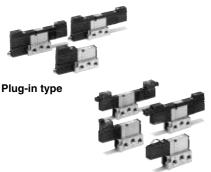
#### Reduction of wiring cost MIL standard D-sub connector with one-touch connection (Plug-in type) Compact and large valve capacity: Width 15 mm Flexible to increase and decrease manifold stations (Stacking type manifold base) High frequency/Long service life (more than 30 mil. times) Possible to use in nonlubrication and dry air (Metal seal structure) Different variations for connection Grommet type L, M plug connector type: Individual

take out of A and B sides K plug connector type: Common take out of A and B sides

DIN terminal type: individual take out of A and B sides

### A little power consumption: 1.8 WDC





Non plug-in type

#### Standard Specifications

	•				
	Fluid		Air/Inert gas		
ns	Maximum operating pressure	9	1.0 MPa		
atio	Minimum operating pressure		0.1 MPa		
fice	Proof pressure		1.5 MPa		
specifications	Ambient and fluid temperatur	re	-10 to 50°C <sup>(1)</sup>		
sp	Lubrication		Non-lube <sup>(2)</sup>		
Valve	Pilot valve manual override		Non-locking push type (Flush)		
Va	Shock/Vibration resistance (r	m/s²)	150/50 <sup>(3)</sup>		
	Enclosure		Dustproof (Degrees of protection 0) <sup>(4)</sup>		
	Coil rated voltage		100, 200 VAC, 50/60 Hz; 24 VDC		
suc	Allowable voltage fluctuation		-15 to +10% of rated voltage		
atic	Coil insulation type		Class E or equivalent (120°C) (5)		
ific	Apparent power (AC)	Inrush	4.5 VA/50 Hz, 4.2 VA/60 Hz		
bec	Apparent power (AC)	Holding	3.5 VA/50 Hz, 3 VA/60 Hz		
∕ s¦	Power consumption (DC)		1.8 W		
Electricity specifications			Plug-in type (FZ)		
	Electrical entry		Non plug-in type Grommet (G), Plug connector (L, M, KZ) DIN terminal (D)		

Note 1) Use dry air at low temperatures.

Note 2) Use turbine oil Class 1 (ISO VG32), if lubricated.

Note 3) Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)

Note 4) Based on JIS C 0920. Note 5) Based on JIS C 4003.

#### **Option Specifications**

Coil rotod voltago	24, 48, 110, 220 VAC (50/60 Hz)					
Coil rated voltage	6, 12, 48 VDC					
Manual override	Locking type (Tool required)					
Option	With light/surge voltage suppressor Note)					
Note) Plug-in, K plug connector type is standard with light/surge voltage suppressor.						

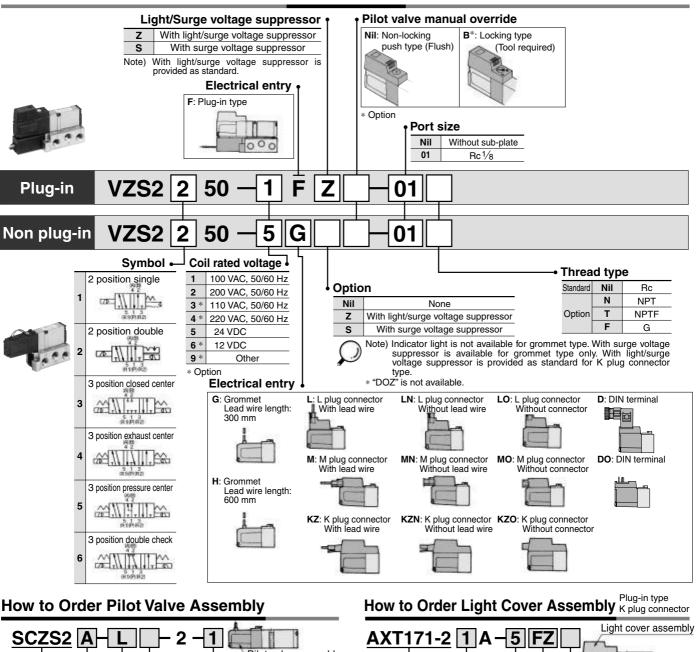
VFS

VS4

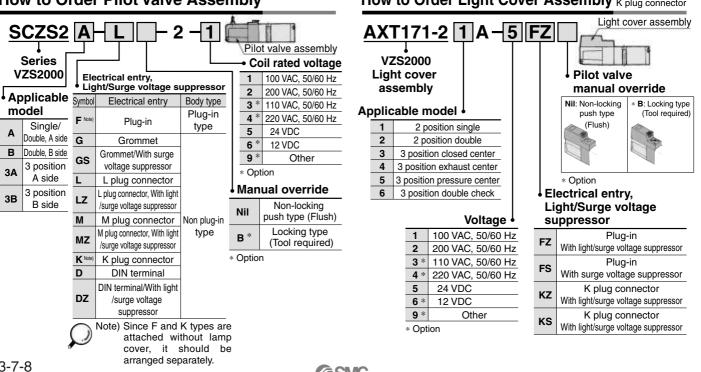
VQ7

EVS

VFN



### How to Order

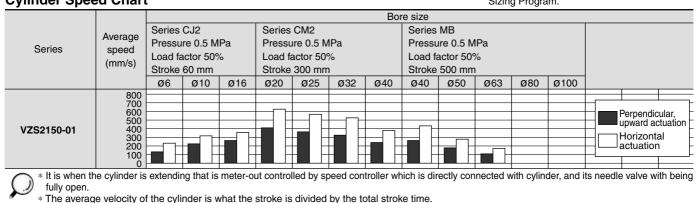


**SMC** 

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

### **Cylinder Speed Chart**

Use as a guide for selection. Please confirm the actual conditions with SMC Sizing Program.



\* Load factor: ((Load weight x 9.8)/Theoretical force) x 100%

#### Conditions

		Series CJ2 Series CM2 Series MB				
	Tube bore x Length	T0604 x 1 m				
VZS2150-01	Speed controller	AS3001F-06				
	Silencer	AN110-1				

### **Double Check Spacer/Specifications**

#### Can hold an intermediate cylinder position for an extended time

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.



Plug-in type



Non plug-in type

# **Specifications**

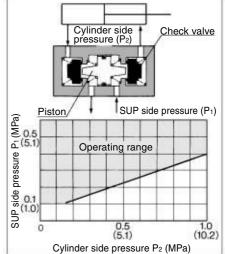
Double check spacer part no.		Plug-in type			Non plug-in type		
		VVZS2000-22A-1			VVZS2000-22A-2		
Applicable valve model		VZS2450-□FZ			G VZS2450-□ M KZ D		
Leakage	Solenoid one side de-energized		1(P)		(R1) (R2)	100 Ncm <sup>3</sup> / min or less	
(Supply pressure:		Solenoid			(R1) (R2)	100 Ncm <sup>3</sup> / min or less	
0.5 MPa		th sides energized	4(A) 2(B)	_	(R1) (R2)	0	

# A Caution

In the case of 3 position double check (VZS2650), check the leakage from piping and fittings in between valve and cylinder by means of synthetic detergent solutions, and ensure that there is no such leakage found there. Also check the leakage from cylinder seal and piston seal. If there is any leakage, sometimes the cylinder, when valve is deenergized, can move without stopping at intermediate position.

**多SMC** 

#### **Check Valve Operating** Pressure/Characteristics



• The combination of VZS2150, VZS2250 and a double check spacer can be used as prevention of falling at the stroke end but cannot hold the intermediate position of the cylinder.

EVS

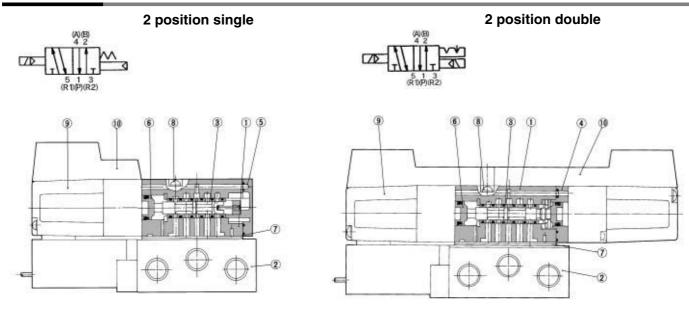
VFN

VK

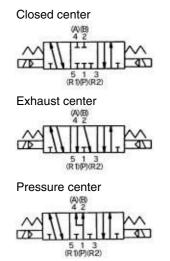
٧Z

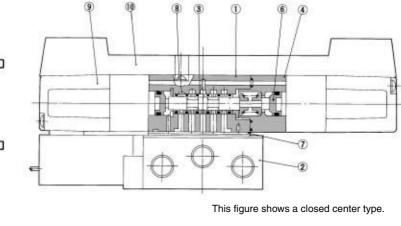
VF

### Construction



#### 3 position closed center/exhaust center/pressure center





#### **Component Parts**

No.	Description	Material	Note			
1	Body	Aluminum die-casted	Platinum silver			
2	Sub-plate	Aluminum die-casted	Platinum silver			
3	Spool/Sleeve	Stainless steel				
(4)	Adapter plate	Resin	Black			
(5)	End plate	Resin	Black			
6	Piston	Resin				

### Sub-plate Assembly

	-		
Plug-in	VZS2000-P-01		
Non plug-in VZS2000-S-01			
* Mounting bolt and gasket are not attached. *  : Thread type			
Thread Type			

	-
Nil	Rc
Ν	NPT
Т	NPTF
F	G
	N T

#### **Replacement Parts**

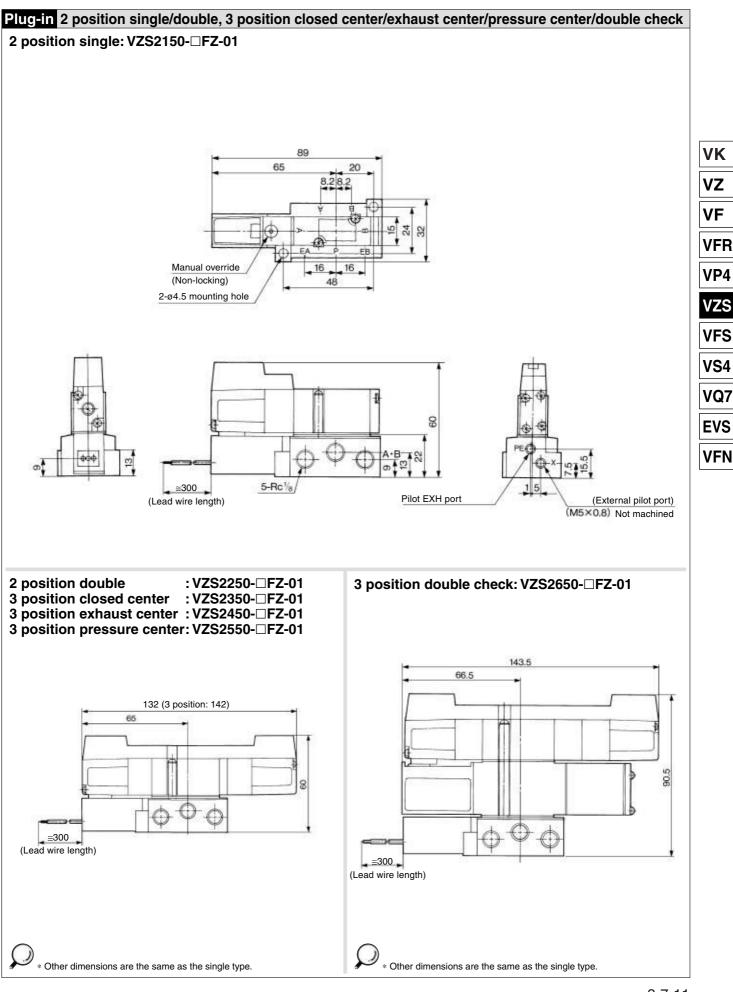
No.	Description	Material	Part no.
$\overline{O}$	Gasket	NBR	BG-VZS2000-1 (Groove gasket 1 pc., Round head combination screw 2 pcs.)
8	Round head combination screw	Carbon steel	BG-VZS2000 (Gasket 1 pc., Round head combination screw 2 pcs.) Note)
9	Pilot valve assembly	_	Refer to "How to Order Pilot Valve Assembly" on page 3-7-8.
10	Light cover assembly	_	Refer to "How to Order Light Cover Assembly" on page 3-7-8.

Note) Refer to page 3-7-6.



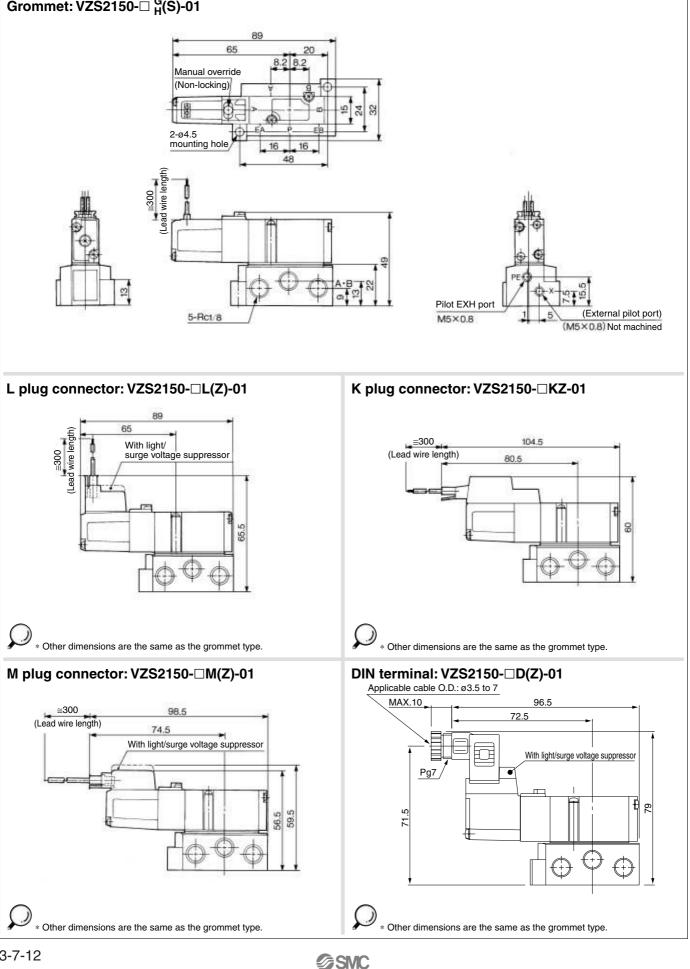


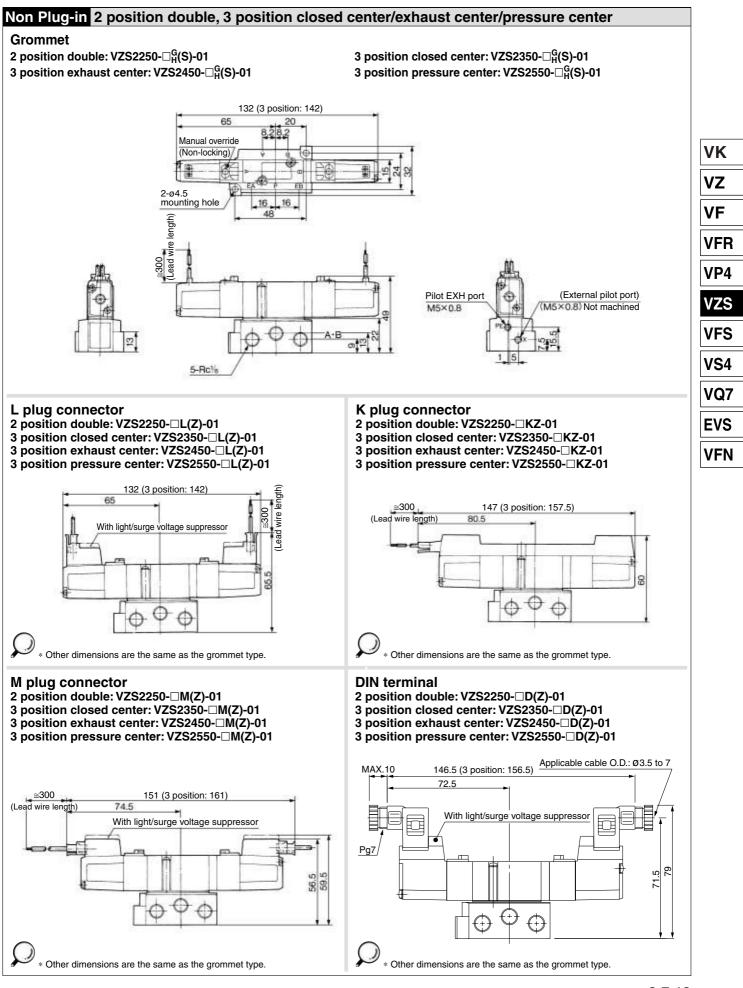
### 5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VZS2000



### Non Plug-in 2 position single

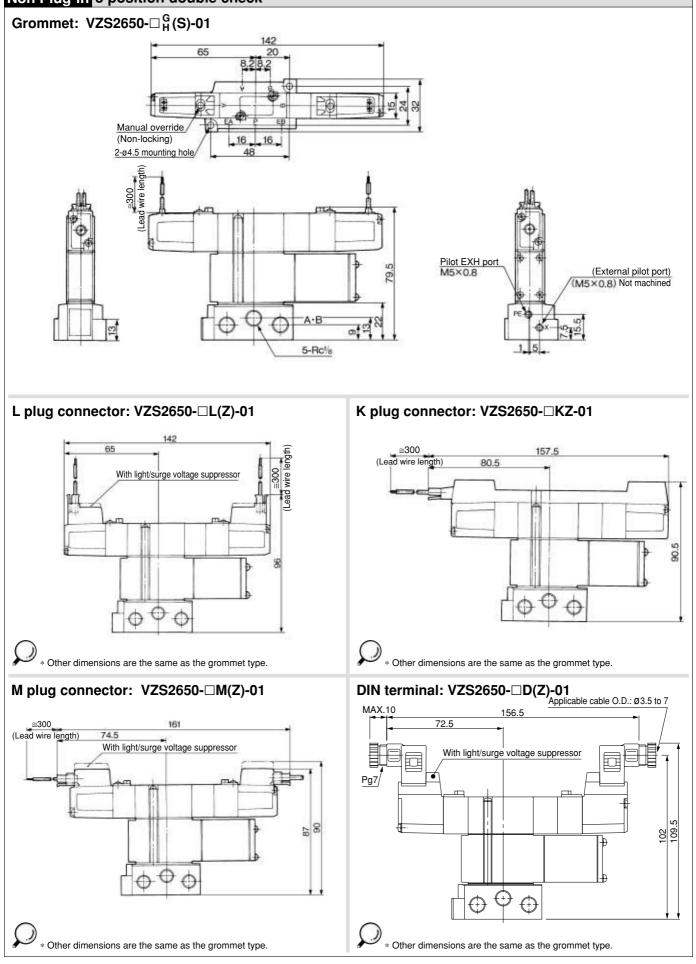
# Grommet: VZS2150-D H(S)-01



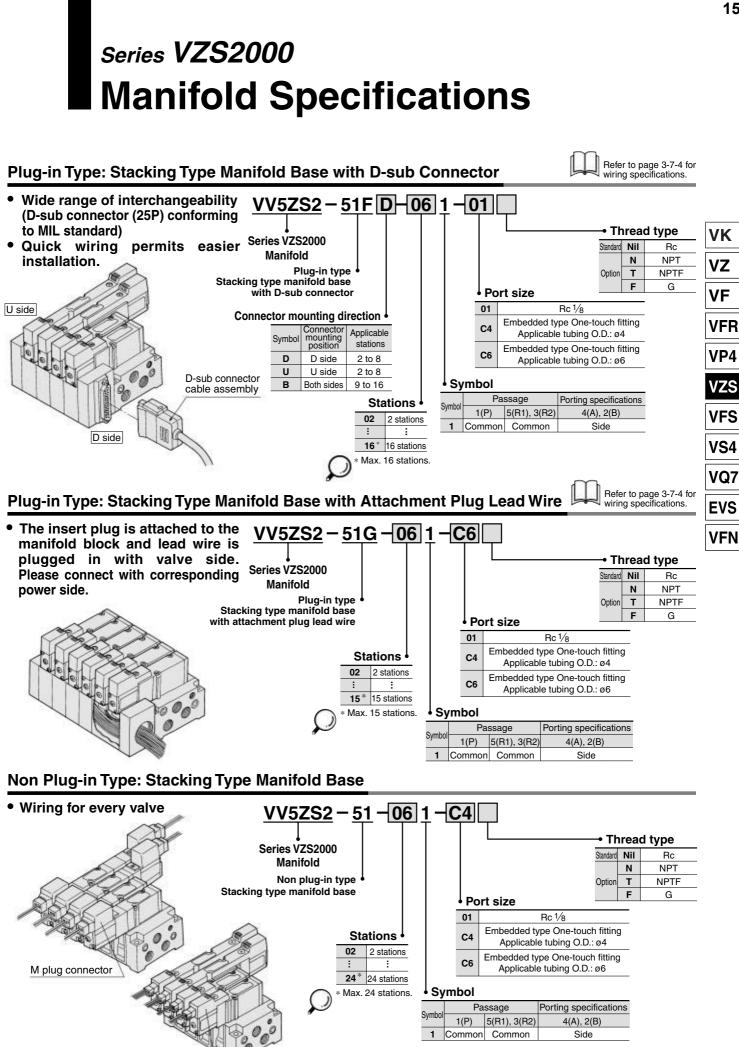


**SMC** 

### Non Plug-in 3 position double check



**SMC** 



∕∂SMC

K plug connector

#### 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 <sup>*</sup> 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>		· · · · · · · · · · · · · · · · · · ·		<b>,</b> ,		
	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
	$(\Gamma \rightarrow A/D)$	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
	$(A/B \rightarrow R1/R2)$	b	0.12	0.11	0.11	0.10	0.11
		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.

Body type		Plug-in type	Non plug-in type	
Part 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

DIOCK CATTIOTTI EXTERPORTION EVERY VAIVE.			
Body 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

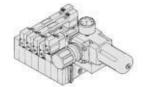
Body type	Plug-in type	Non plug-in type			
Part no.	VVZS2000-26A				

### Manifold Option

#### With control unit

Plug-in type/Non plug-in type

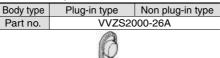
- Filter, regulation valve, pressure switch and air release valve all combine to form one unit.
- Piping processes are eliminated.



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
	A	

#### 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.

### How to Order Manifold Assembly

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

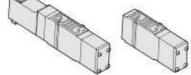
#### (Example)

- 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

#### **Double check spacer**

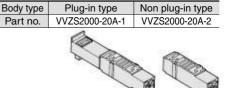
If the double check spacer with a built-in double check valve is combined, it will enable the cylinder to stop in the intermediate stroke and maintain its position for a long time without being affected by the leakage between the spools.

Plug-in type	Non plug-in type	
VVZS2000-22A-1	VVZS2000-22A-2	
	<u> </u>	



#### Throttle valve spacer

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



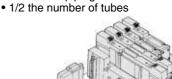
#### With serial interface unit for serial transmission

- 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.



#### With coaxial fitting

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

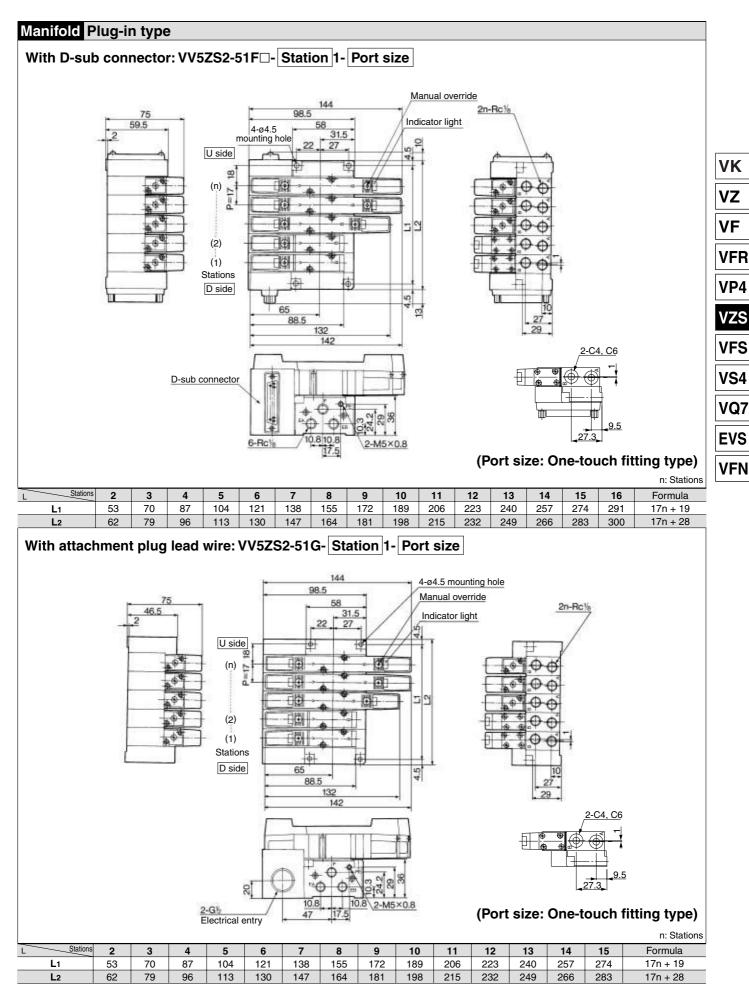


For details, refer to catalog (CAT. 02-5).

16

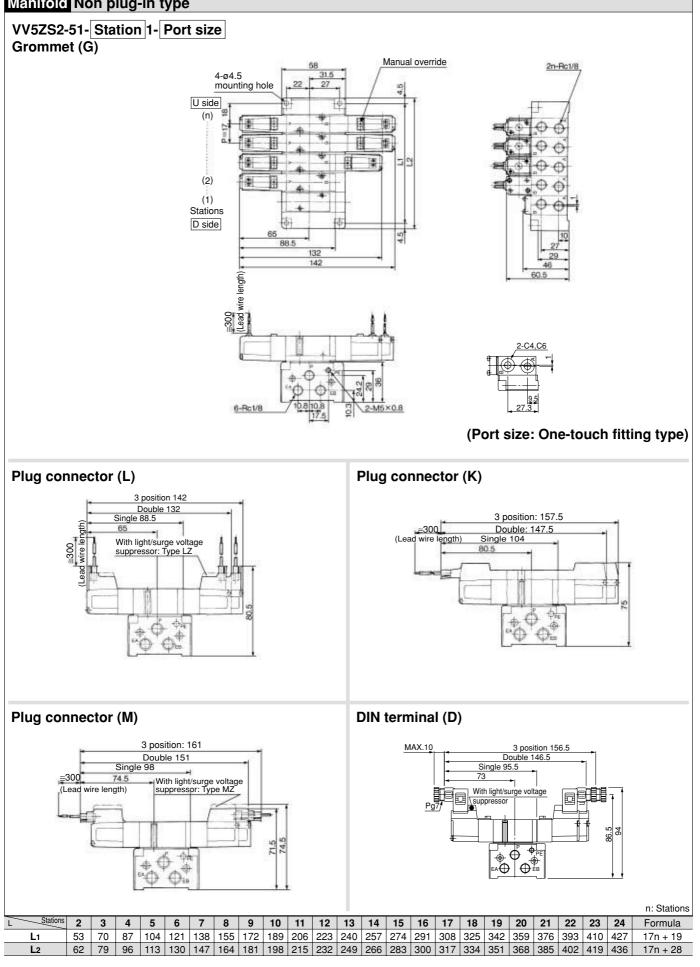
(CAT. 02-6, 7, 8, 9).

For details, refer to catalog





### Manifold Non plug-in type





# 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

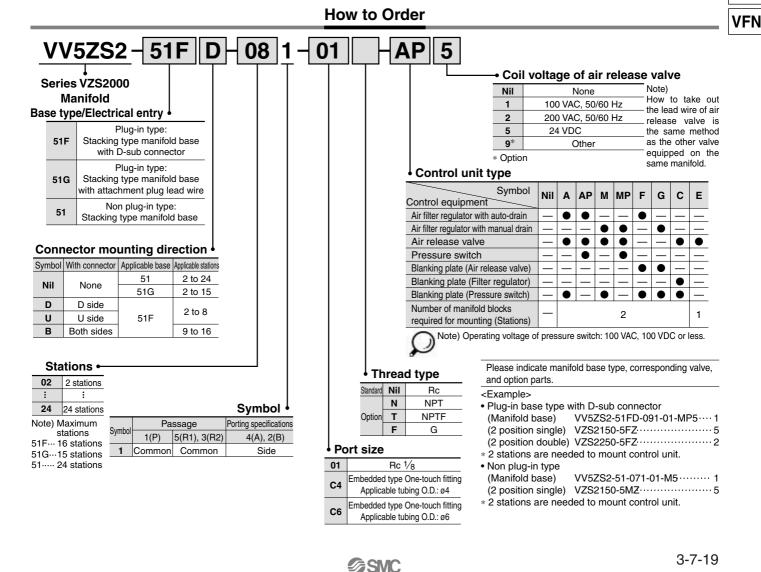
# **∧**Caution

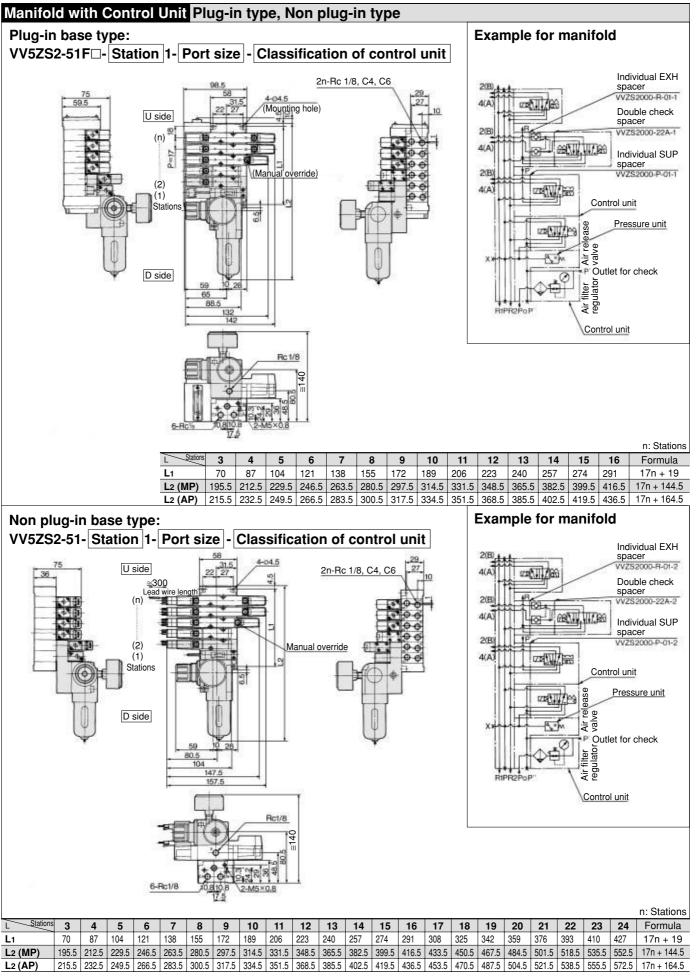
When using an air filter with auto-drain or manual override drain, mount the filter vertically.

### **Manifold Specifications**

			Porting spec	ifications		ort siz			Applicable
Base model		Wiring	4(A), 2 port		1(P), 3 (	5(R1) R2)	4(A) 2(B)	Stations	valve model
Plug-in type VV5ZS2-51F VV5ZS2-51G								2 to 16 <sup>*</sup> stations	VZS2□50-□FZ
		mmet	Side	9	Ro	; 1⁄8	C4		G
VV5ZS2-51	• M p	ug connector lug connector ug connector				C6		2 to 24 stations	VZS2□50-□L M KZ
	-	ecifications		Con	trol	Uni	t/0	ption	
		in/With manual drain	)					MP2-	
Filtration degree	)	10 µm				(With			Filter regulator)
Regulator				Blank	ing			VVZS200	
Set pressure (Outlet pre	,	0.05 to 0.7 MF	Pa	plate			(Wi	th pressu	re switch)
Pressure switch									·24A-10-12
Set pressure range		0.1 to 0.4 MP	a					(Release	valve)
Differential pres	sure	0.08 MPa		Filter				XTO-188	39-10
Contact		1a		eleme	ent			710-100	
Max. switch capa	acity	2 VA AC, 2 W E						Plug-in	
Max. operating cu	rrent	24 VAC, DC or less		Press				VVZS200	0-14A
max. operating ou		100 VAC, DC: 20		switch	1			lon plug-	
Operating voltage	-	100 VAC, DC or	less				I	S1000-00	)-X204
Air release valve	· ·	0 1/							
Operating pressure	range	0.1 to 1.0 MP	a						

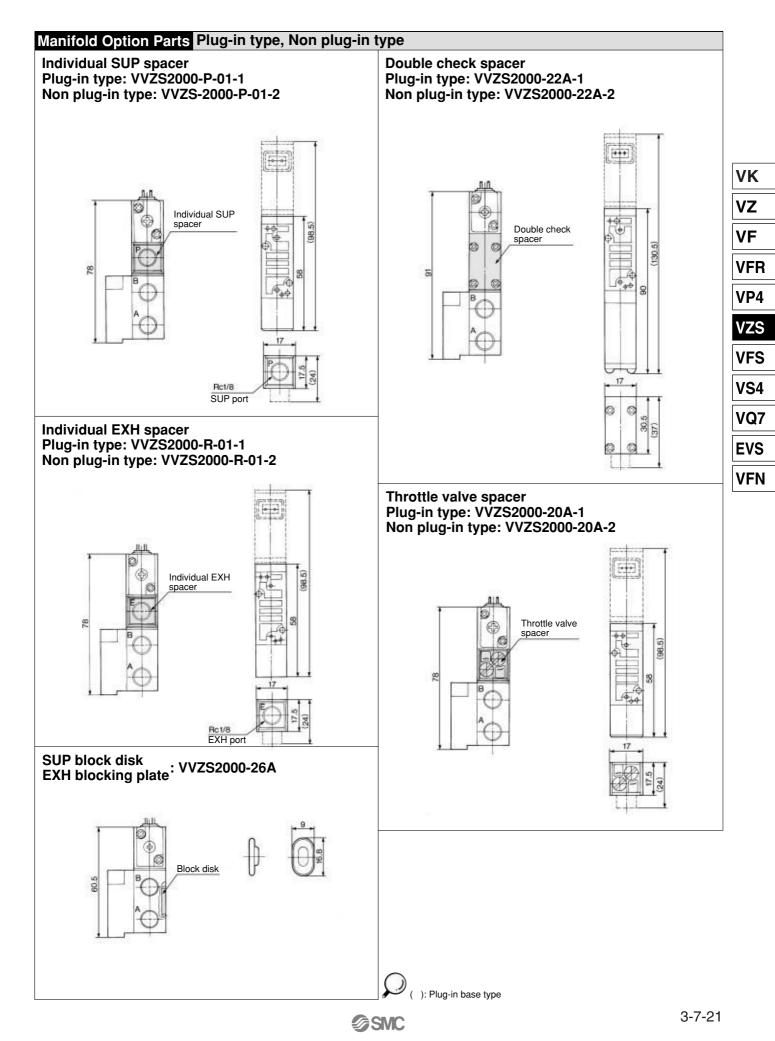
# ⊐L M VK K7 ٧Z VF tor) VFR VP4 VZS VFS VS4 VQ7 EVS



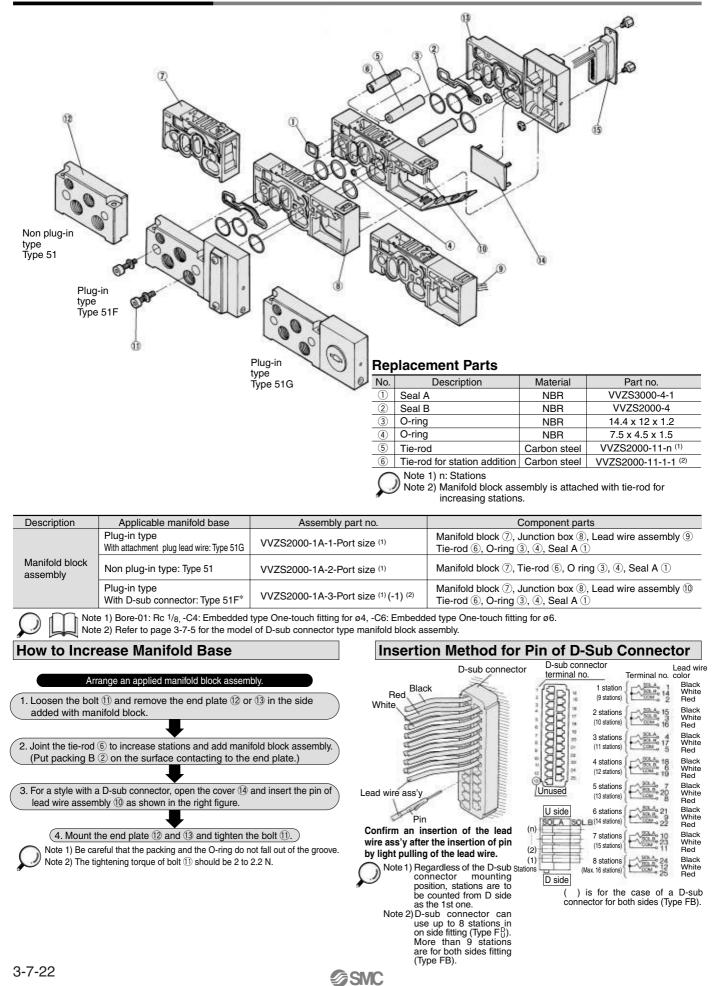


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### 5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VZS2000



### **Exploded View of Manifold**



# CE I For details about continue processing conforming to international standards, visit us at <u>www.smcworld.com</u>.

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

#### Model

						Flow char	acteristics				(2)	(3)
Туре	of actuation	Model	Port size Rc	$1 \rightarrow 4$	$I/2 (P \rightarrow A/I)$	/2 (P $\rightarrow$ A/B) 4/2 $\rightarrow$ 5/3 (A/B $\rightarrow$ R1/R2)				Response	Weight	
			nc	C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv	cycle (CPM)	time (ms)	(kg)
position	Single	VZS3150	1⁄4	2.6	0.17	0.58	2.4	0.09	0.53	1200	18 or less	0.22
2 pos	Double	VZS3250	1⁄4	2.6	0.17	0.58	2.4	0.09	0.53	1200	13 or less	0.27
	Closed center	VZS3350	1⁄4	2.5	0.17	0.56	2.4	0.11	0.52	500	26 or less	0.28
position	Exhaust center	VZS3450	1⁄4	2.5	0.17	0.56	2.4	0.11	0.49	500	26 or less	0.28
3 po;	Pressure center	VZS3550	1⁄4	2.8	0.12	0.60	2.4	0.16	0.53	500	26 or less	0.28
	Double check	VZS3650	1⁄4	1.1	_	_	1.2		_	420	32 or less	0.43

Note 1) Min. operating cycle is based on JIS B 8375 (One time per 30 days).

Note 2) Response time is based on JIS B 8375-1981. (0.5 MPa, without light/surge voltage suppressor) Note 3) For VZS3□50-□FZ-01

Note 4) "Note 1" and "Note 2" are with controlled clean air.

#### **Reduction of wiring cost MIL standard D-sub connector** with one-touch connection (Plug-in type)

#### Compact and large valve capacity: Width 18 mm Flexible to increase and decrease manifold stations (Stacking type manifold base)

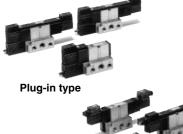
#### High frequency/Long service life (more than 30 mil. times) Possible to use in nonlubrication and dry air (Metal seal structure)

#### **Different variations for connection** Grommet type

L, M plug connector type: Individual take out of A and B sides K plug connector type: Common take out of A and B sides DIN terminal type: Individual take out of A and B sides

### A little power consumption: 1.8 W DC







Standard Specifications

	Fluid		Air/Inert gas			
S	Maximum operating pressure		1.0 MPa			
Itio	Minimum operating pressure		0.1 MPa			
lica	Proof pressure		1.5 MPa			
specifications	Ambient and fluid temperature		-10 to 50°C <sup>(1)</sup>			
	Lubrication		Non-lube <sup>(2)</sup>			
Valve	Pilot valve manual override		Non-locking push type (Flush)			
Va	Shock/Vibration resistance (m/s <sup>2</sup>	2)	150/50 (3)			
	Enclosure		Dustproof (Degrees of protection 0) <sup>(4)</sup>			
	Coil rated voltage		100, 200 VAC, 50/60 Hz; 24 VDC			
suc	Allowable voltage fluctuation		-15 to +10% of rated voltage			
Electricity specifications	Coil insulation type		Class E or equivalent (120°C) <sup>(5)</sup>			
Sific	Apparent power (AC)	Inrush	4.5 VA/50 Hz, 4.2 VA/60 Hz			
bec	Apparent power (AO)	Holding	3.5 VA/50 Hz, 3 VA/60 Hz			
y sl	Power consumption (DC)		1.8 W			
icit			Plug-in type (FZ)			
ectr	Electrical entry		Non plug-in type			
Ш	Electrical entry		Grommet (G), Plug connector (L, M, KZ)			
			DIN terminal (D)			

Note 1) Use dry air at low temperatures.

Note 2) Use turbine oil Class 1 (ISO VG32), if lubricated.

Note 3) Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)

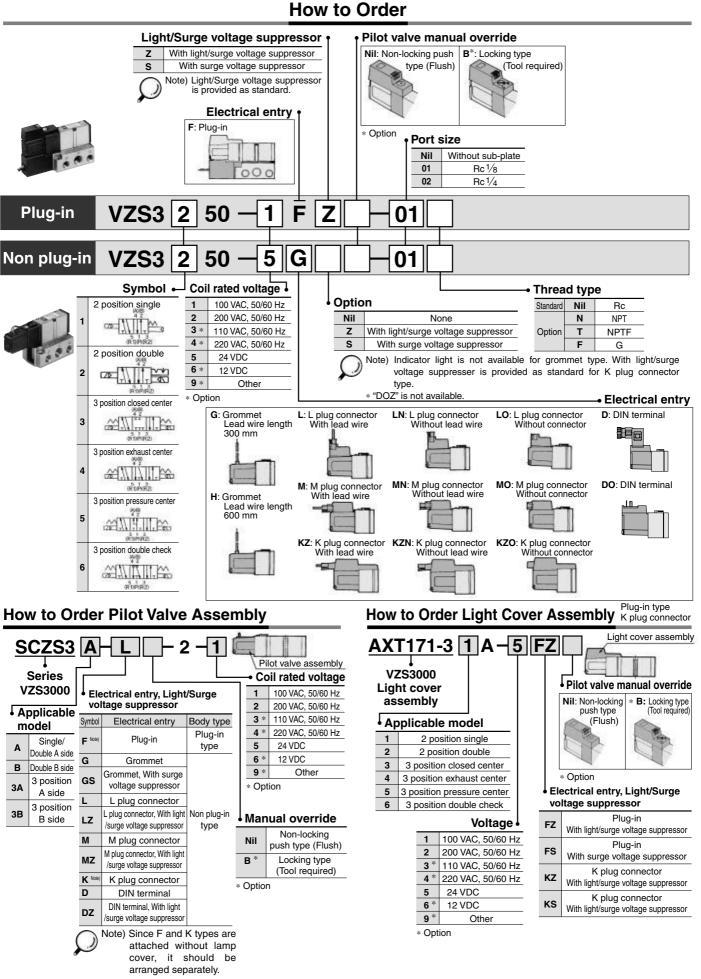
Note 4) Based on JIS C 0920.

Note 5) Based on JIS C 4003.

### **Option Specifications**

Coil rated voltage	24, 48, 110, 220 VAC (50/60 Hz)
Coll faled vollage	6, 12, 48 VDC
Manual override	Locking type (Tool required)
Option	With light/surge voltage suppressor Note)
🔿 Note) Plua-in. K plua	connector type is standard with light/surge voltage suppressor.







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

#### **Cylinder Speed Chart**

Use as a guide for selection. Please confirm the actual conditions with

		1										31010 3	izing Pro	gram.
			Bore size											
	Series CJ2				Series	CM2			Series	MB				
Corico	Average	Pressu	ure 0.5 M	Pa	Pressu	ire 0.5 N	1Pa		Pressu	ure 0.5 N	1Pa			
Series speed	· ·	Load factor 50%		Load factor 50%		Load fa	Load factor 50%							
	(mm/s)	Stroke	60 mm		Stroke	300 mm	า		Stroke	500 mm	า			
		Ø6	Ø10	Ø16	Ø20	Ø25	Ø32	Ø40	Ø40	Ø50	Ø63	Ø80	Ø100	
VZS3150-02	800 700 600 500 400 300 200 100													Perpendicular, upward actuation

\* Load factor: ((Load weight x 9.8)/Theoretical force) x 100%

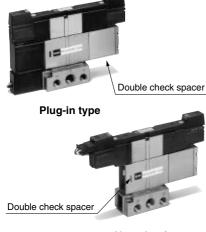
#### Conditions

		Series CJ2	Series CJ2 Series CM2 Series I			
	Tube bore x Length	T0604 x 1 m	T080	6x1m		
VZS3150-02	Speed controller	AS3001F-06	AS3001F-08			
	Silencer		AN101-01			

#### **Double Check Spacer/Specifications**

# Can hold an intermediate cylinder position for an extended time

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.



Non plug-in type

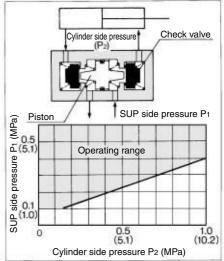
#### Specifications

Double check spacer part no.	Plug-in t	уре	Non plug-in type					
spacer part no.	VVZS3000-	22A-1	VVZS3000-22A-2					
Applicable valve model	VZS3450-	□FZ	G L VZS3450-⊡ M KZ D					
	Solenoid one	1(D)	5(R1)	210 Ncm <sup>3</sup> /				
	side energized	1(P)	3(R2)	min or less				
Leakage	Solenoid	1 (D)	5(R1)	210 Ncm <sup>3</sup> /				
0.5 MPa	both sides	1(P)	3(R2)	min or less				
	energized	4(A)	5(R1)	0				
	55. gizou	2(B)	3(R2)	U				

### **A** Caution

In the case of 3 position double check (VZS3650), check the leakage from piping and fittings in between valve and cylinder by means of synthetic detergent solutions, and ensure that there is no such leakage found there. Also check the leakage from cylinder seal and piston seal. If there is any leakage, sometimes the cylinder, when valve is de-energized, can move without stopping at intermediate position.

#### Check Valve Operating Pressure/Characteristics



• The combination of VZS3150, VZS3250 and a double check spacer can be used as prevention of falling at the stroke end but cannot hold the intermediate position of the cylinder.

VK

VZ

VF

VFR

VP4

VZS

VFS

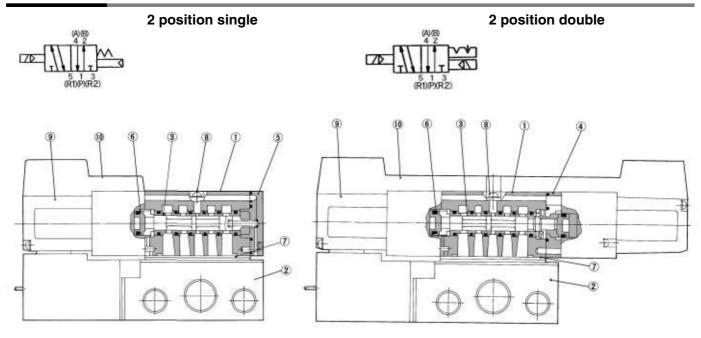
VS4

VQ7

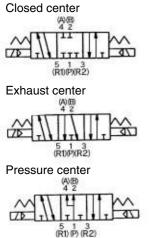
EVS

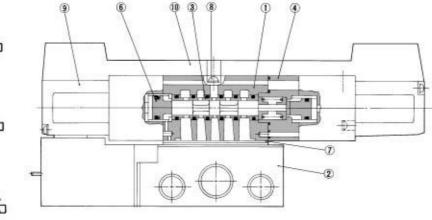
VFN

### Construction



### 3 position closed center/exhaust center/pressure center





This figure shows a closed center type.

#### **Component Parts**

No.	Description	Material	Note
1	Body	Aluminum die-casted	Platinum silver
2	Sub-plate	Aluminum die-casted	Platinum silver
3	Spool/Sleeve	Stainless steel	—
4	Adapter plate	Resin	Black
(5)	End plate	Resin	Black
6	Piston	Resin	—

#### Sub-plate Assembly

Plug-in	Plug-in VZS3000-P- <sup>01</sup> <sub>02</sub>						
Non plug-in		VZS3000-S- <sup>01</sup> □					
* Mounting bolt and gasket are not attack : Thread type Thread Type							
Standard	Nil	Rc					
	Ν	NPT					
Option T NPTF							
	F	G					

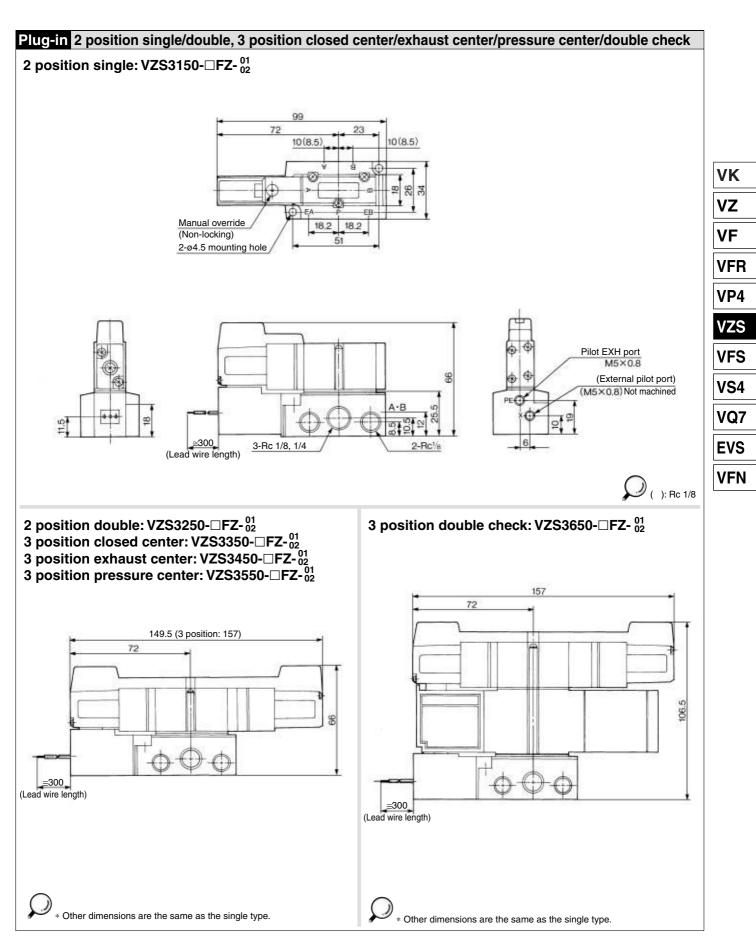
#### **Replacement Parts**

tion screw 2 pcs.) w 3 pcs.) Note)
w 3 pcs.) Note)
24.
-24.
2

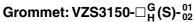
Note) Refer to page 3-7-6.

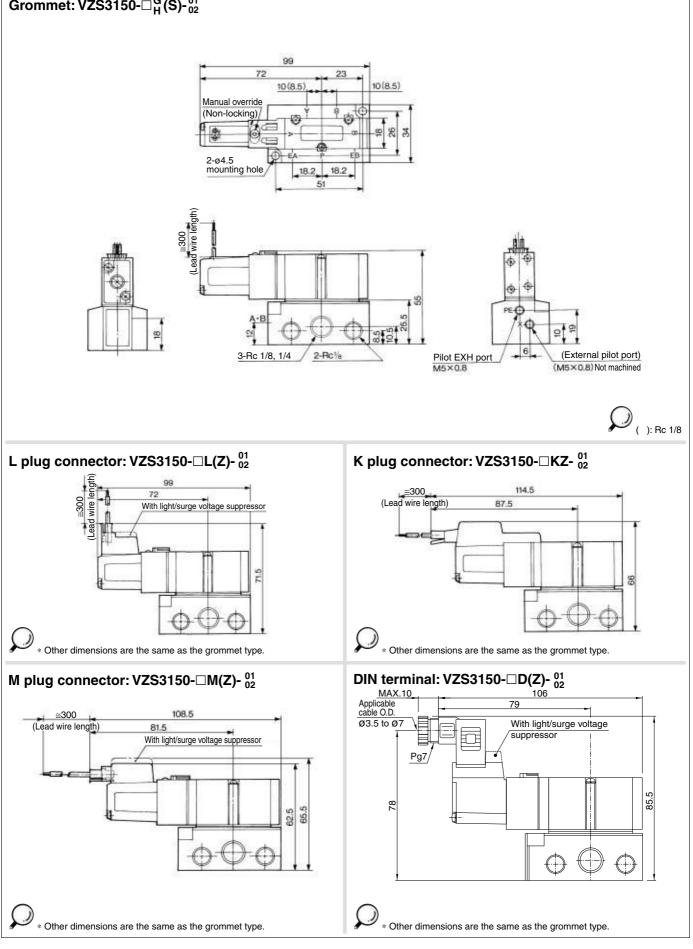


## 5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VZS3000



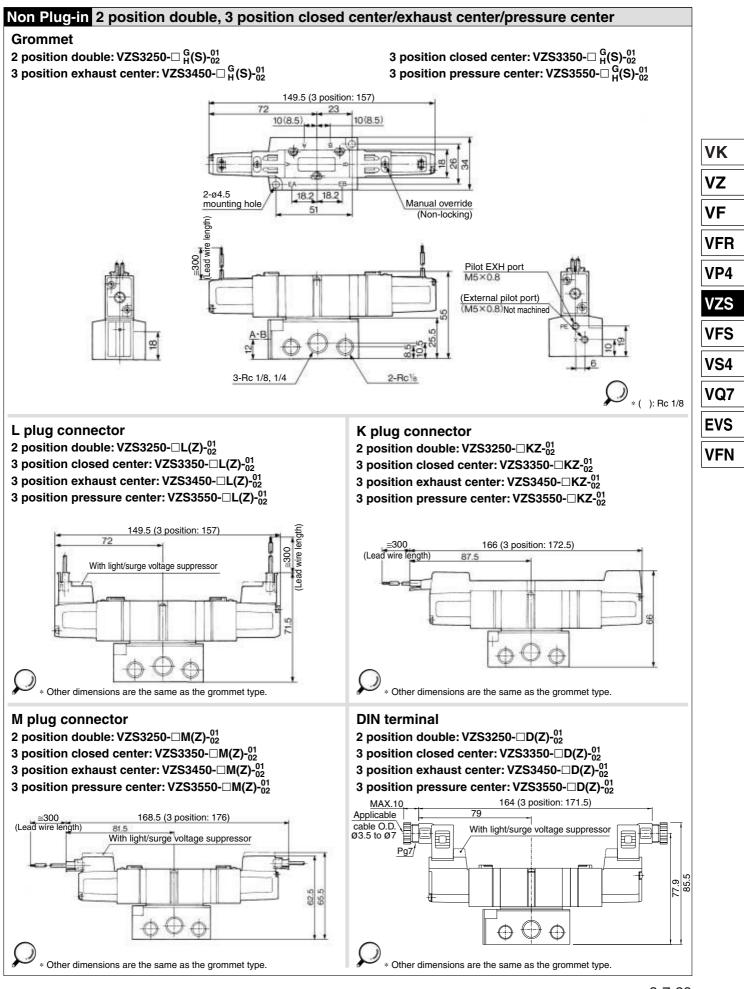
### Non Plug-in 2 position single





**SMC** 

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

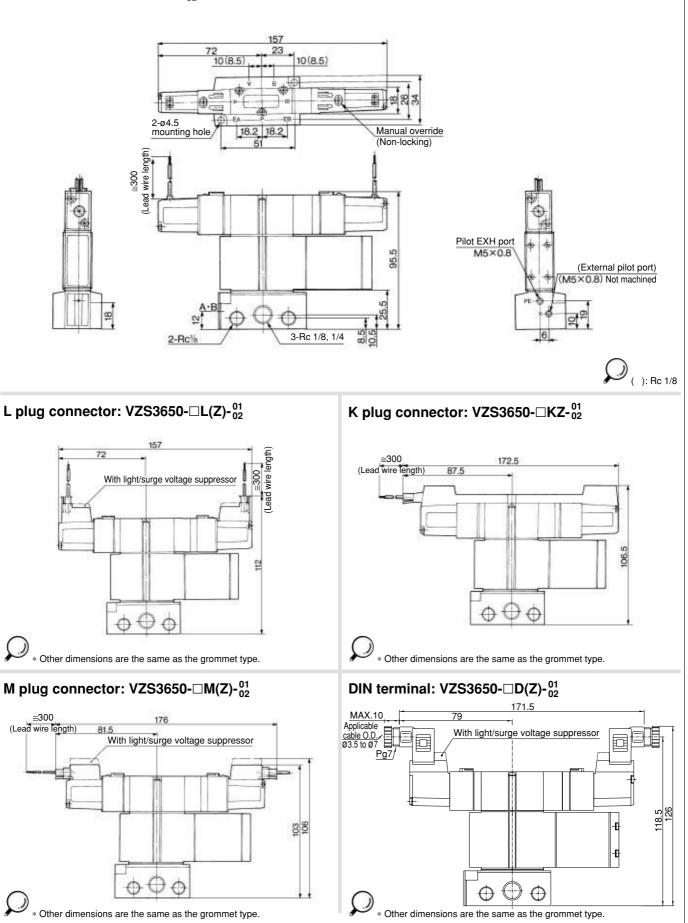


**SMC** 

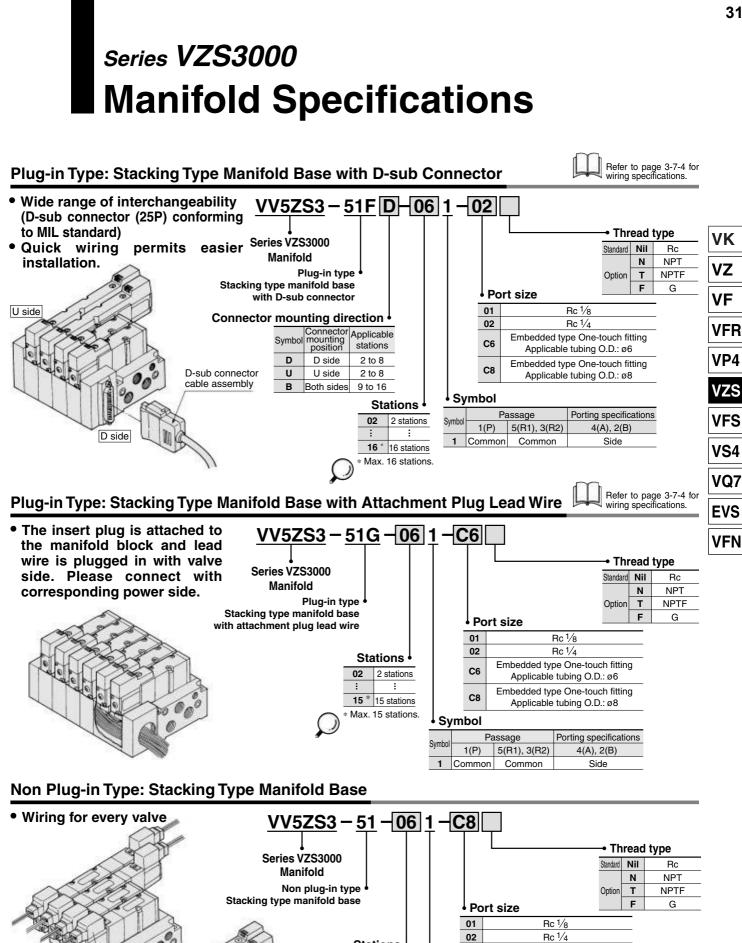
3-7-29

### Non Plug-in 3 position double check









Stations •

Max. 24 stations

02

24

2 stations

24 stations

0

K plug connector

00

M plug connector

Embedded type One-touch fitting

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

Applicable tubing O.D.: ø8

Porting specifications

4(A), 2(B) Side

C6

C8

Passage

1 Common Common

1(P) 5(R1), 3(R2)

Symbol

#### Manifold Specifications

_		Porting specifications	Port size	Rc		Annlinghis	
Base model	Wiring	4(A), 2(B) Port	1(P), 5(R1) 3(R2)	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)

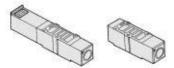
Passage	e/Stations	Station 1	Station 5	Station 10	Station 15	Station 20
$1 \rightarrow 4/2$	C [dm <sup>3</sup> /(s·bar)]	2.7	2.7	2.7	2.7	2.6
$P \rightarrow A/B$	b	0.15	0.16	0.16	0.15	0.20
$(P \rightarrow A/B)$	Cv	0.62	0.61	0.61	0.61	0.63
$4/2 \rightarrow 5/3$	C [dm <sup>3</sup> /(s·bar)]	2.8	2.8	2.9	2.9	2.9
	b	0.10	0.12	0.12	0.12	0.12
$(A/B \rightarrow R1/R2)$	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					
no.	Rc 1/4	VVZS3000-P-02-1	VVZS3000-P-02-2					



#### Individual EXH spacer

Manifold Option

With control unit

form one unit.

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

			-
Bo	dy type	Plug-in type	Non plug-in type
Part no.	Rc 1⁄4	VVZS3000-R-02-1	VVZS3000-R-02-2
	C		

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

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

Piping processes are eliminated.

• Filter, regulation valve, pressure switch

and air release valve all combine to

#### 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.	AXT62	25-12A								
Ø										

# 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.

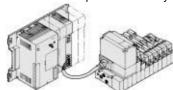
Body type	Plug-in type	Non plug-in type
Part no.	ARBZS3000-00-P-1	ARBZS3000-00-P-2
	Apply processing fro	m the D part of the

base to operate the interface regulator.

#### 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

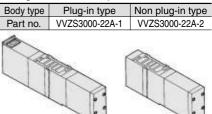
Please indicate manifold base type. corresponding valve, and option parts.

#### (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.

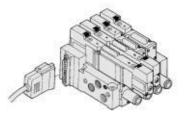
plaining to mount a opare valve, etc.									
Body type Plug-in type Non plug-in type									
Part no.	VVZS3000-10A-1	VVZS3000-10A-2							
	2000-022								



#### With coaxial fitting

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

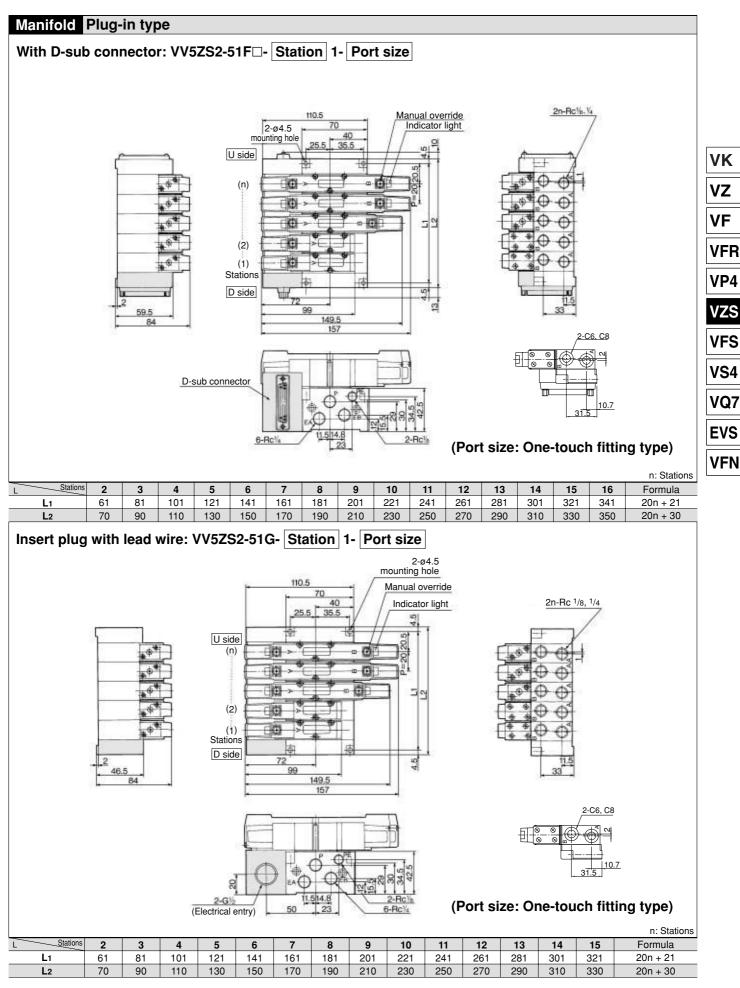
- Piping man-hours reduced
- One-touch piping
- 1/2 the number of tubes



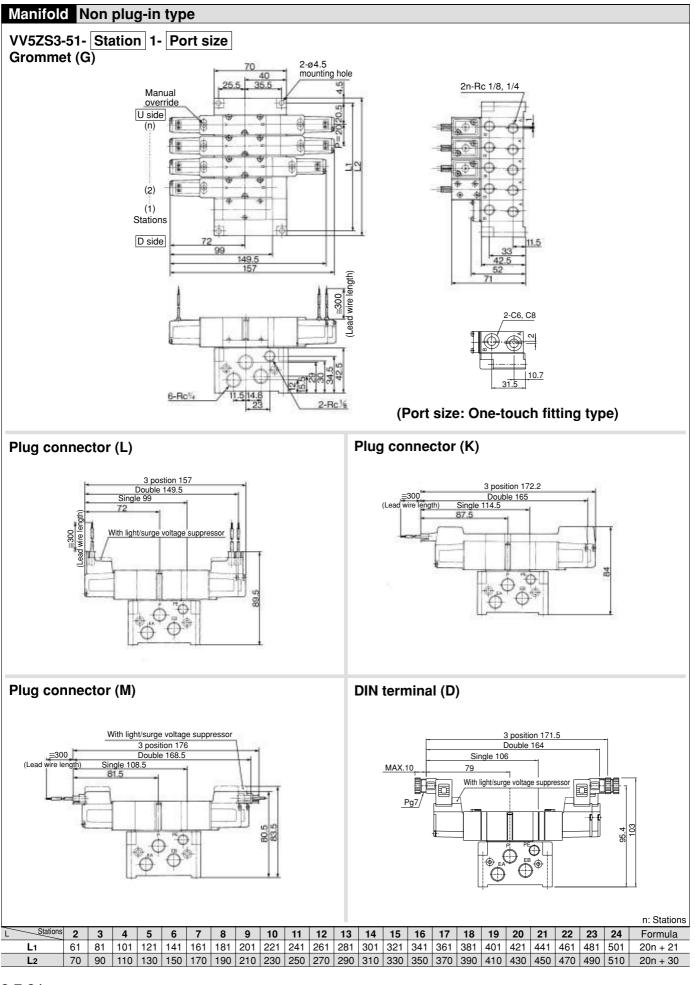
For details, please contact SMC.



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









# 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**

Dece medel	Minima	Porting specifications	Port	size	Ctation -	Applicable		
Base model	Wiring	A, B port	P, EA, EB	A, B	Stations	valve model		
VV57S3-51F	With D-sub connector With attachment plug lead wire			Rc 1⁄8, 1⁄4	2 to 16 stations	VZS3⊡50-□FZ		
	Grommet	Side	Rc 1/4	C6		G		
VV5ZS3-51	L plug connector M plug connector K plug connector			C8	2 to 24 stations	VZS3⊡50-□ L M KZ		
				,	<b>.</b>			
Control Unit S	pecifications	C	ontrol	Unit/	Option			
	pecifications drain/With manual drain)	C	ontrol		- MP:	2-2		
	•	C	ontrol		- MP:			
Air filter (With auto- Filtration degree Regulator	drain/With manual drain) 5 μm	Bla	anking	(With c	MP: control unit VVZS20	2-2 /Filter regulator) 000-15A		
Air filter (With auto-o Filtration degree Regulator Set pressure (Outlet press	drain/With manual drain) 5 μm	Bla	anking	(With c	MP: ontrol unit VVZS20 With press	2-2 /Filter regulator) 00-15A ure switch)		
Air filter (With auto- Filtration degree Regulator	drain/With manual drain) 5 μm sure) 0.05 to 0.85 MPa	Bla	anking	(With c	MP: control unit VVZS20 With press VVZS3000	2-2 /Filter regulator) /00-15A ure switch) 0-24A-10- <sup>1</sup> / <sub>2</sub>		
Air filter (With auto-o Filtration degree Regulator Set pressure (Outlet press	drain/With manual drain) 5 μm sure) 0.05 to 0.85 MP	Bla	anking	(With c	MP: ontrol unit VVZS20 With press	2-2 /Filter regulator) /00-15A ure switch) 0-24A-10- <sup>1</sup> / <sub>2</sub>		
Air filter (With auto-or Filtration degree Regulator Set pressure (Outlet press Pressure switch	drain/With manual drain) 5 μm sure) 0.05 to 0.85 MP DFF 0.1 to 0.4 MPa	a pla	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 auto-or Filtration degree Regulator Set pressure (Outlet press Pressure switch Set pressure range: C	drain/With manual drain) 5 μm sure) 0.05 to 0.85 MP DFF 0.1 to 0.4 MPa	a pla	anking ite	(With c	MP: control unit VVZS20 With press VVZS3000	2-2 /Filter regulator) 00-15A ure switch) D-24A-10- $\frac{1}{2}$ e valve)		
Air filter (With auto- Filtration degree Regulator Set pressure (Outlet press Pressure switch Set pressure range: C Differential pressure	drain/With manual drain) 5 μm sure) 0.05 to 0.85 MP DFF 0.1 to 0.4 MPa 0.08 MPa 1a	a pla	anking ite	(With c	MP: control unit VVZS20 With press VVZS3000 (Releas	2-2 /Filter regulator) 00-15A ure switch) 0-24A-10- <sup>1</sup> / <sub>2</sub> e valve) 11-5B		
Air filter (With auto- Filtration degree Regulator Set pressure (Outlet press Pressure switch Set pressure range: C Differential pressure Contact	Orain/With manual drain)           5 μm           sure)         0.05 to 0.85 MPa           0.05 to 0.4 MPa           0.08 MPa           1a           2 VA AC, 2 W D0           24 VAC, DC or less: 5	a pla a pla Fil ele C Pr	anking ite	(With c	MP control unit VVZS20 With press VVZS3000 (Releas 11151	2-2 /Filter regulator) 00-15A ure switch) 0-24A-10- <sup>1</sup> / <sub>2</sub> e valve) 11-5B h type 100-14A		

# VK VZ VF VFR VP4 VZS VFS VS4 VQ7 EVS

VFN

35

# How to Order

0.1 to 1.0 MPa

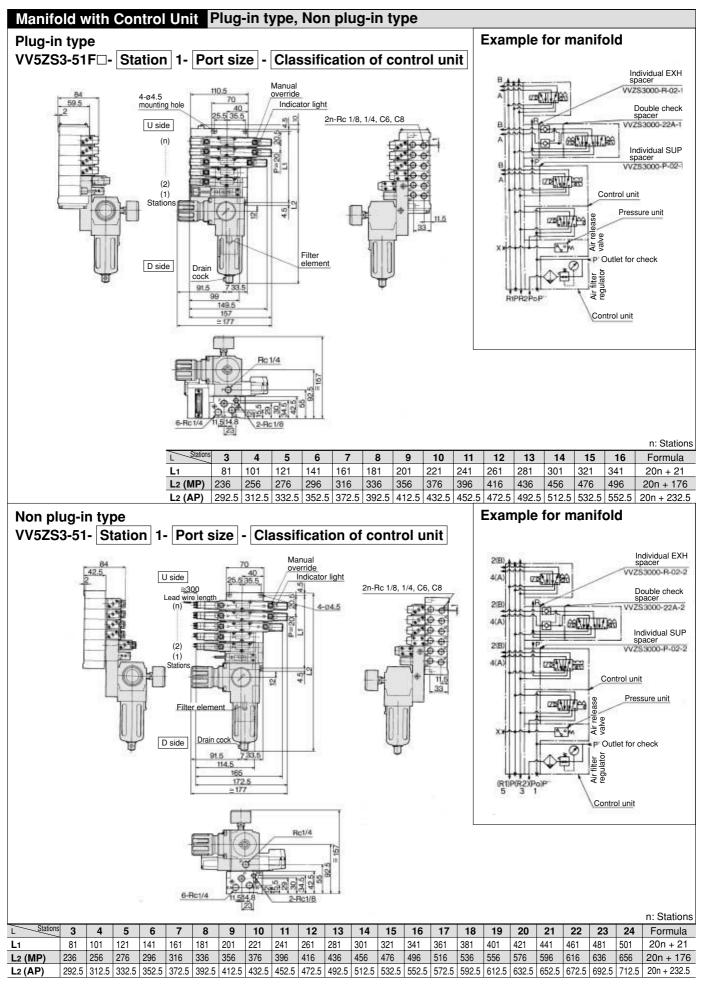
Air release valve (Single only)

Operating pressure range

	ies VZS300 Manifold	00								• Coi Nil			None	e		_ N	ote)		ike out
Base type/Electrical entry							1 100 VAC, 50/60 Hz 2 200 VAC, 50/60 Hz							<ul> <li>the lead wire of ai</li> <li>release valve is the</li> </ul>					
	Plug-ir	n type:	-							5		24 V	,						hod a
51F	Stacking type									9 *			Othe	r					valv
	with D-sub		-							* Optio	n						quipp ame r		on th
		n type:							Control ur	nit types						50	anne i	lanin	Jiu.
1G	Stacking type with attachmen									Syml									
	Non pluc	1 0	-						Control equipme			Nil	A AI	P M	MP	F	G	С	E
51	Stacking type								Air filter regulator	with auto-drai	n	_	• •	) —			—	_	_
	3 7		-						Air filter regulator	with manual d	rain		_   _	- •		—		_	—
	nector mo	unting dir	action						Air release val	ve		_	• •	•		_	—	٠	
									Pressure switc	h		<u> </u>	_ •	)	•	_	-	—	_
/mbo	With connector								Blanking plate (A			<u> </u>	_ -	-	·	•		_	<u> </u>
Nil	None	51 51G	2 to 24 2 to 15						Blanking plate (F	•					·   —	-	-	•	<u> </u>
D	D side	510	21015						Blanking plate (F		ch)	_		-   •	—			•	<u> </u>
U	U side	51F	2 to 8						Number of manif required for mou		-	-			2				1
В	Both sides	• · ·	9 to 16						•	perating volta	,			tob. 1	00.1/4	0 10		0	
											ge or j	press	lie Sw	ICH. I	00 74	0, 10			655.
~	ations •								$\sim$	<u></u>									
-								Threa	ad type	Please in and optio			nitola I	oase	type,	corre	espo	ndinę	j valvo
02	2 stations							Standard Nil		<exampl< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></exampl<>									
: 24	: 24 stations			Svn	nbol			N	NPT	Plug-in		with	D-sut	o con	necto	or			
			2000000		ecifications			Option T	NPTF	(Manifo							91-0	1-M	P5…
ote)	Maximum stations	Symbol 1(P)	Passage 5(R1), 3(F		, 2(B)			F	G	(2 posit									•••••
1F…	·16 stations	1 Commo			, <u>2(</u> ) ide		• Port			(2 posit									•••••
	15 stations					•	01		1/8	<ul> <li>* 2 statio</li> <li>• Non plu</li> </ul>			eded	to m	ount	contr	ol ur	nit.	
1	24 stations					-	02		1/4	(Manifo	0		٧١	/578	3-50	071-	-01-N	15	
									One-touch fitting	(2 posit									•••••
						-			One-touch fitting	* 2 static	ons ar	e ne	eded	to m	ount	contr	ol ur	nit.	
								Applicable t											

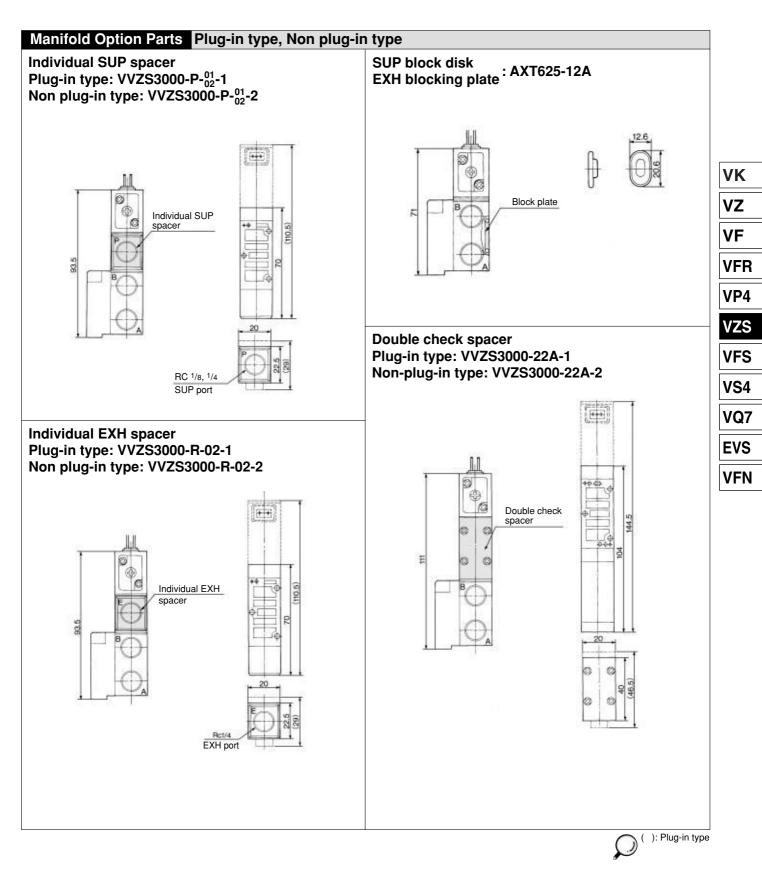
**SMC** 







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



### **Exploded View of Manifold**

