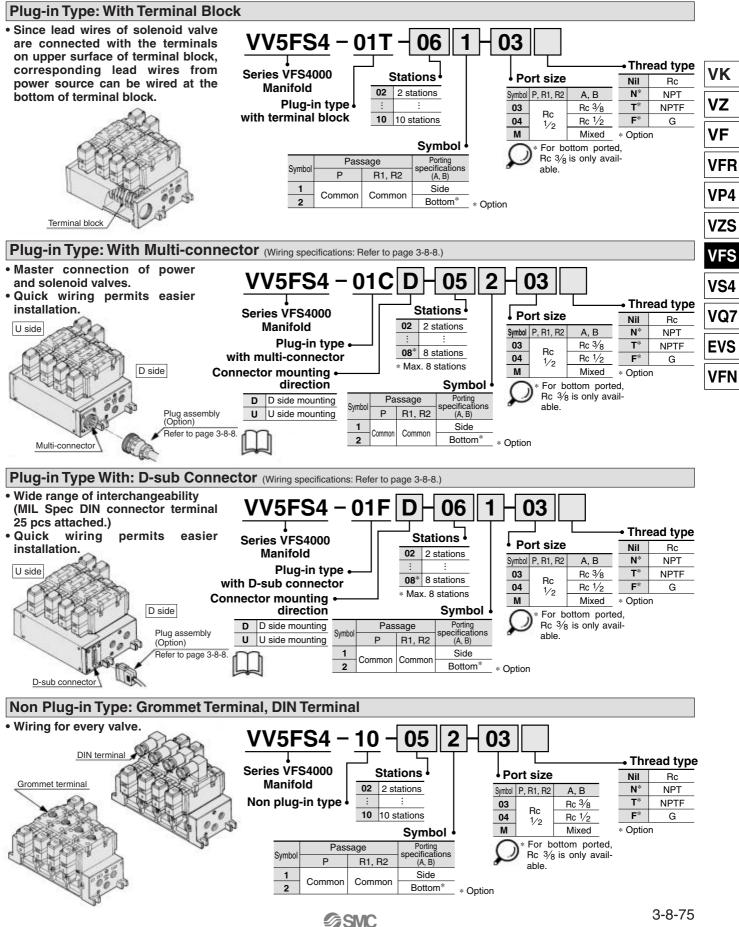
# Series VFS4000 **Manifold Specifications**



# Series VFS4000

#### How to Order Manifold Assembly

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

- Plug-in type with terminal block: 6 stations (Manifold base) VV5FS4-01T-061-03 ····· 1 (2 position single) VFS4100-5FZ ······ 3 (2 position double) VFS4200-5FZ ······ 2 (Blanking plate) VVFS4000-10A ····· 1
- Non plug-in type: 6 stations (Manifold base) VV5FS4-10-061-04 ...... 1 (2 position single) VFS4110-5D ..... 5 (3 position exhaust center) VFS4410-5D .... 1 (Individual EXH spacer) VVFS4000-R-04-2.... 1

#### **Manifold Specifications**

Base model	Wiring	Porting specifications A, B port	Port siz P, EA, EB		Stations	Applicable valve model
Plug-in type VV5FS4-01□	<ul><li>With terminal block</li><li>With multi-connector</li><li>With D-sub connector</li></ul>	Side/	1/2	<sup>3</sup> / <sub>8</sub> , <sup>1</sup> / <sub>2</sub> 2 to 10 <sup>*</sup>	VFS4□00-□F	
Non plug-in type VV5FS4-10	DIN terminal Grommet terminal	Bottom				VFS4□10-□D VFS4□10-□E

\* With multi-connector, or with D-sub connector: 8 stations max.

#### 2

#### Flow Characteristics at the Number of Manifold Stations (Operated individually)

Model	Passage	/Stations	Station 1	Station 5	Station 10
	$VV5FS4 = \frac{1 \rightarrow 4/2}{(P \rightarrow A/B)}$ $\frac{4/2 \rightarrow 5/3}{(A/B \rightarrow R1/R2)}$	C [dm³/(s·bar)]	10.5	10.5	10.5
		b	0.20	0.20	0.20
		Cv	2.5	2.5	2.5
VVJI 04		C [dm³/(s·bar)]	11	11	11
		b	0.20	0.20	0.20
	$(A/D \rightarrow H1/H2)$	Cv	2.9	2.9	2.9
	ort size: Rc 1/2				

Manifold Option Parts Assembly

#### Individual SUP spacer

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

Body type		Non plug-in type
Part no.	VVFS4000-P-03-1	VVFS4000-P-03-2
		Service.



#### Individual EXH spacer

An individual EXH spacer set on manifold block can form EXH port for every valve. (common EXH type)

Body type	Plug-in type	Non plug-in type
Part no.	VVFS4000-R-04-1	VVFS4000-R-04-2
~	A 10	20
		1200

#### \* SUP block disk

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

Body type	Plug-in type	Non plug-in type
Part no.	AXT634-10A	

#### \* EXH block disk

When valve exhaust affects the other stations on the circuit or when a reverse pressure valve is used to a 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.	AXT634-11A	





#### EXH block disk

SUP block disk

#### Throttle valve spacer

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

Body typePlug-in typeNon plug-in typePart no.VVFS4000-20A-1VVFS4000-20A-2

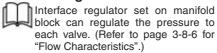


#### **Double check spacer**

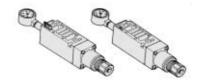
If the double check spacer with a built-in double check valve is combined, it will enable the cylinder to stop in the intermediate stroke and maintain its position for a long time without being affected by the leakage between the spools.

Body type	Plug-in type	Non plug-in type
Part no.	VVFS4000-22A-1	VVFS4000-22A-2
6		2

#### Interface regulator



Body type	Plug-in type	Non plug-in type
P port regulation	ARBF4050-00-P-1	ARBF4050-00-P-2
A reduced pressure	ARBF4050-00-A-1	ARBF4050-00-A-2
B reduced pressure	ARBF4050-00-B-1	ARBF4050-00-B-2



#### **Blanking plate**

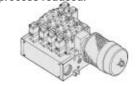
It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.

Body type	Plug-in type	Non plug-in type
Part no.	VVFS4000-10A	

### Manifold Option

#### With exhaust cleaner

- Plug-in type/Non Plug-in type • Valve exhaust noise dampening: 35 dB
- or more. • Oil mist collection: Rate of collection 99.9% or more.
- Piping process reduced.

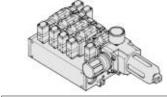


### For details, refer to page 3-8-79.

#### With control unit

#### Plug-in type/Non Plug-in type

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

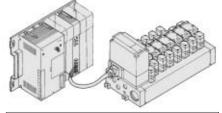


For details, refer to page 3-8-81.

#### With serial interface unit for serial transmission

#### Plug-in type

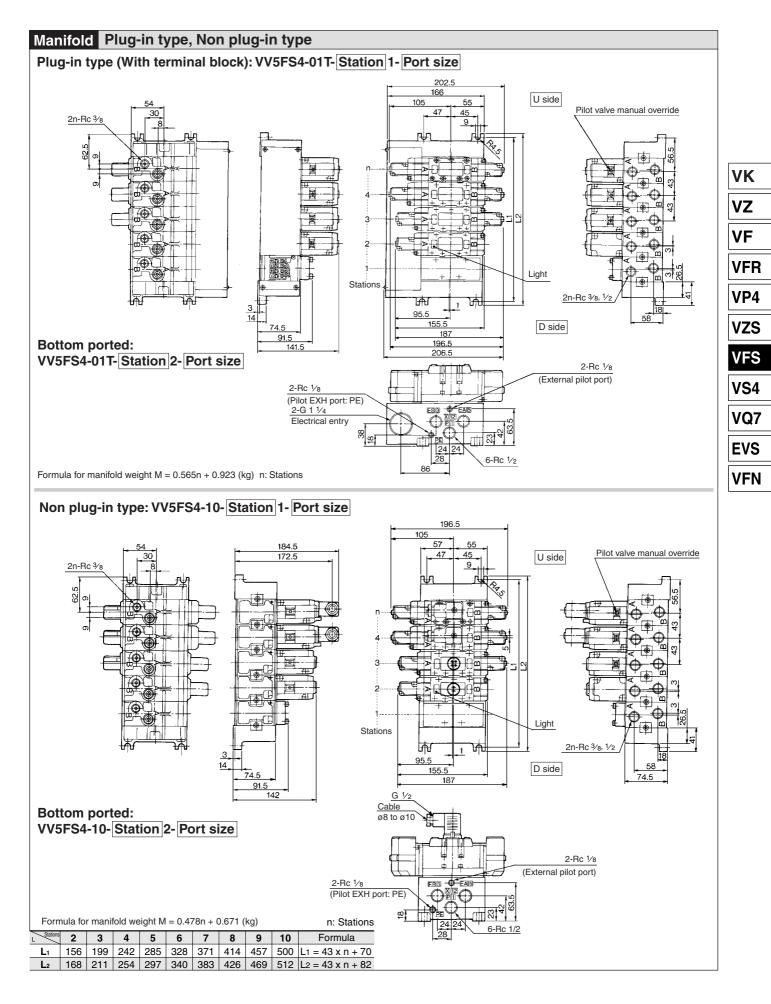
- Solenoid valve wiring process reduced considerably.
- Disperse installation possible. Manifold solenoid valve: 8 stations max.
- 32 positions (512 solenoids). • Maintenance and inspection are easy.



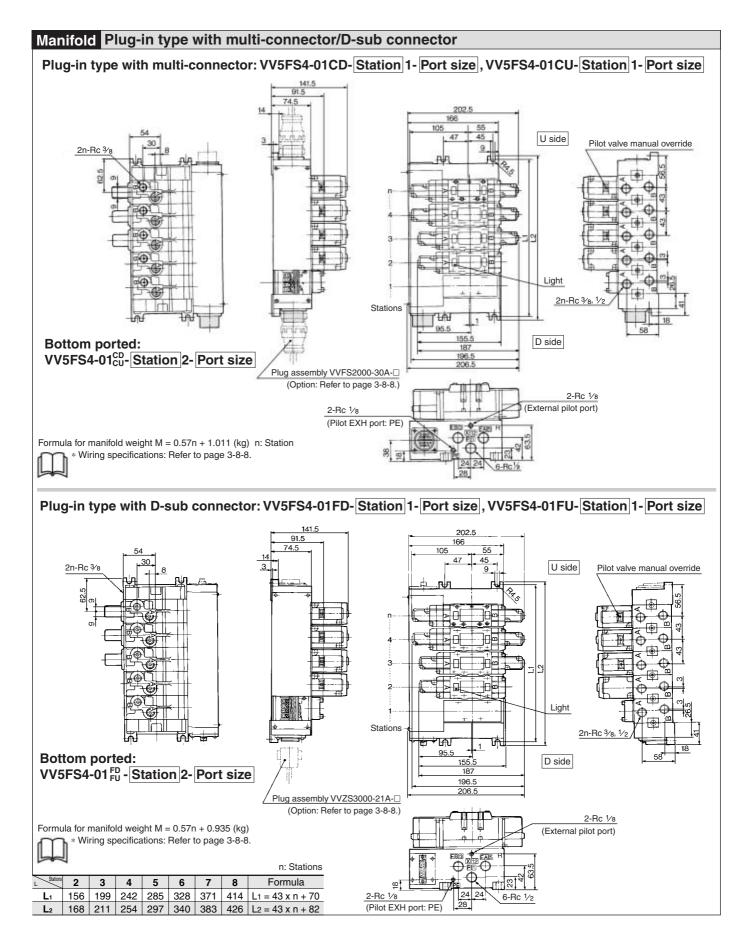
For details, refer to "Serial Transmission" catalog separately.



### 5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VFS4000



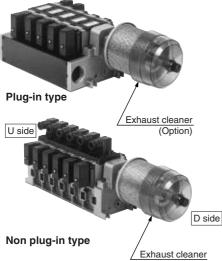
# Series VFS4000



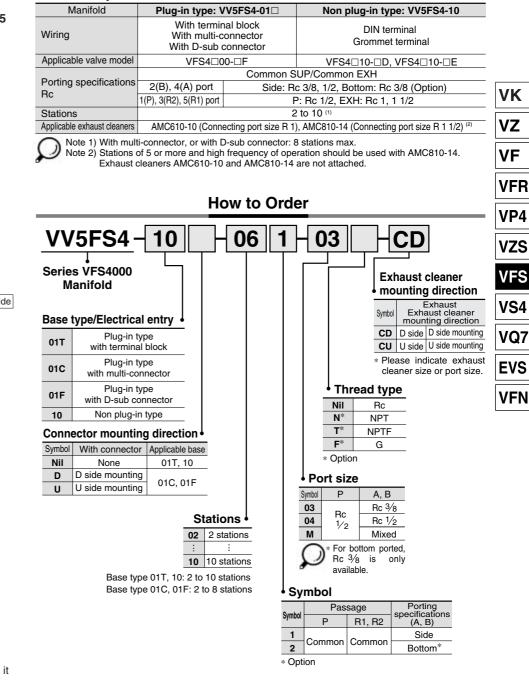
## Manifold with Exhaust Cleaner -

(Option)

- Serves to protect working environment.
- Valve exhaust noise dampening: 35 dB or more.
- Collection rate of drainage and oil mist: 99.9% or more.
- Piping work is reduced.



#### **Manifold Specifications**



### **∆**Caution

When using an exhaust cleaner, mount it downwards.

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

<Example>

• N

 Plug-in type with terminal block (6 stations) (Manifold base) VV5ES4-01T-061-03-CD ····

(Mannolu base)	VV5F54-011-001-03-0D ······
(2 position single)	VFS4100-5FZ 3
(2 position double)	VFS4200-5FZ 2
(Blanking plate)	VVFS4000-10A 1
(Exhaust cleaner)	AMC610-10 ······ 1
Ion plug-in type (6 stati	ons)

(Manifold base)	VV5FS4-10-061-04-CU 1
(2 position single)	VFS4110-5E3
(2 position double)	VFS4210-5E2
(Blanking plate)	VVFS4000-10A 1
(Exhaust cleaner)	AMC810-14 ····· 1

Refer to Best Pneumatics Vol. 5 for Exhaust Cleaner details.

**SMC** 

# Series VFS4000

