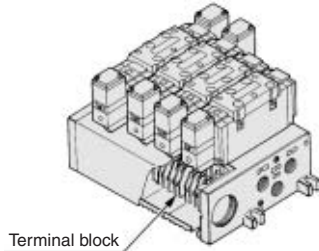


Series VFS3000 Manifold Specifications

Plug-in Type: With Terminal Block

- Since lead wires of solenoid valve are connected with the terminals on upper surface of terminal block, corresponding lead wires from power source can be wired at the bottom of terminal block.



VV5FS3 - 01T - 06 1 - 02

Series VFS3000
Manifold

Plug-in type
with terminal block

Stations

02	2 stations
⋮	⋮
10	10 stations

Port size

Symbol	P, EA, EB	A, B
02	Rc 1/2	Rc 1/4
03		Rc 3/8
M		Mixed

Thread type	
Nil	Rc
N*	NPT
T*	NPTF
F*	G

* Option

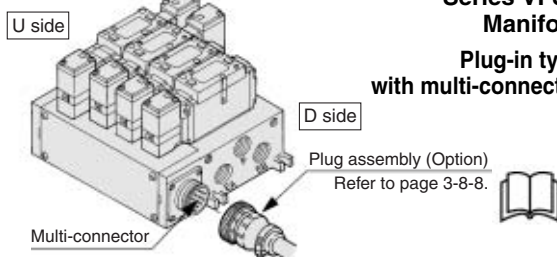
Symbol

Symbol	Passage		Porting specifications (A, B)
	P	EA, EB	
1	Common	Common	Side
2			Bottom*

* Option

Plug-in Type: With Multi-connector (Wiring specifications: Refer to page 3-8-8.)

- Master connection of power and solenoid valves.
- Quick wiring permits easier installation.



VV5FS3 - 01C D - 05 2 - 02

Series VFS3000
Manifold

Plug-in type
with multi-connector

Connector mounting
direction

D	D side mounting
U	U side mounting

Stations

02	2 stations
⋮	⋮
08*	8 stations

* Max. 8 stations

Port size

Symbol	P, EA, EB	A, B
02	Rc 1/2	Rc 1/4
03		Rc 3/8
M		Mixed

Thread type	
Nil	Rc
N*	NPT
T*	NPTF
F*	G

* Option

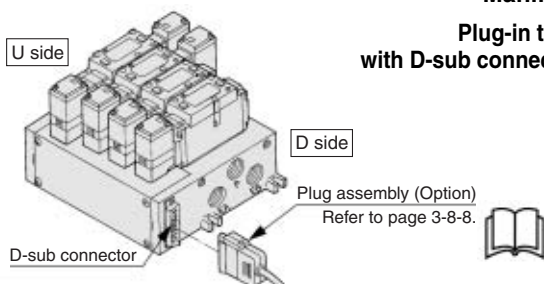
Symbol

Symbol	Passage		Porting specifications (A, B)
	P	EA, EB	
1	Common	Common	Side
2			Bottom*

* Option

Plug-in Type: With D-sub Connector (Wiring specifications: Refer to page 3-8-8.)

- Wide range of interchangeability (MIL Spec DIN connector terminal 25 pcs attached.)
- Quick wiring permits easier installation.



VV5FS3 - 01F D - 06 1 - 02

Series VFS3000
Manifold

Plug-in type
with D-sub connector

Connector mounting
direction

D	D side mounting
U	U side mounting

Stations

02	2 stations
⋮	⋮
08*	8 stations

* Max. 8 stations

Port size

Symbol	P, EA, EB	A, B
02	Rc 1/2	Rc 1/4
03		Rc 3/8
M		Mixed

Thread type	
Nil	Rc
N*	NPT
T*	NPTF
F*	G

* Option

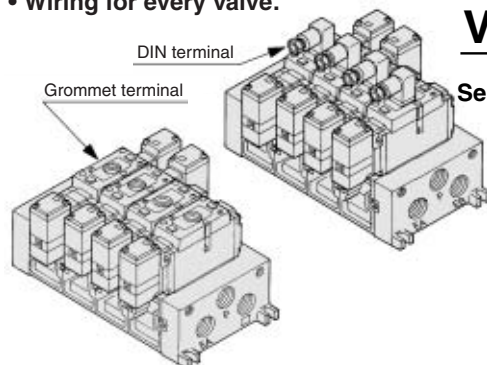
Symbol

Symbol	Passage		Porting specifications (A, B)
	P	EA, EB	
1	Common	Common	Side
2			Bottom*

* Option

Non Plug-in Type: Grommet Terminal, DIN Terminal

- Wiring for every valve.



VV5FS3 - 10 - 05 2 - 02

Series VFS3000
Manifold

Non plug-in type

Stations

02	2 stations
⋮	⋮
10	10 stations

Port size

Symbol	P, EA, EB	A, B
02	Rc 1/2	Rc 1/4
03		Rc 3/8
M		Mixed

Thread type	
Nil	Rc
N*	NPT
T*	NPTF
F*	G

* Option

Symbol

Symbol	Passage		Porting specifications (A, B)
	P	EA, EB	
1	Common	Common	Side
2			Bottom*

* Option

How to Order Manifold Assembly

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

<Example>

- Plug-in type with terminal block: 6 stations
(Manifold base) VV5FS3-01T-061-02 1
(2 position single) VFS3100-5FZ 3
(2 position double) VFS3200-5FZ 2
(Blanking plate) VVFS3000-10A 1

<Example>

- Non plug-in type: 6 stations
(Manifold base) VV5FS3-10-061-03 1
(2 position single) VFS3110-5D 5
(3 position exhaust center) VFS3410-5D 1
(Individual EXH spacer) VVFS3000-R-03-2 ... 1

Manifold Specifications

Base model	Wiring	Porting specifications	Port size Rc		Stations	Applicable valve model
		A, B port	P, EA, EB	A, B		
Plug-in type VV5FS3-01□	• With terminal block • With multi-connector • With D-sub connector	Side/ Bottom	1/2 ⁽¹⁾	1/4, 3/8	2 to 10 ⁽²⁾	VFS3□00-□F
Non plug-in type VV5FS3-10	• DIN terminal • Grommet terminal					VFS3□10-□D VFS3□10-□E



Note 1) Appropriate silencer for EA, EB port: "AN403-04" (O.D. ø27).

Note 2) With multi-connector, or with D-sub connector: 8 stations max.

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

Model	Passage/Stations		Station 1	Station 5	Station 10
VV5FS3	1 → 4/2 (P → A/B)	C [dm ³ /(s·bar)]	6.0	6.0	6.0
		b	0.20	0.20	0.20
		Cv	1.4	1.4	1.4
	4/2 → 5/3 (A/B → R1/R2)	C [dm ³ /(s·bar)]	7.0	7.0	7.0
		b	0.20	0.20	0.20
		Cv	1.8	1.8	1.8

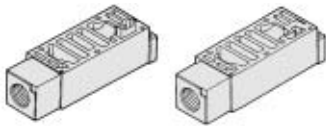
* Port size: Rc 3/8

Manifold Option Parts Assembly

Individual SUP spacer

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

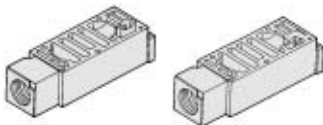
Body type	Plug-in type	Non plug-in type
Part no.	VVFS3000-P-03-1	VVFS3000-P-03-2



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.	VVFS3000-R-03-1	VVFS3000-R-03-2



* 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.	AXT636-1A	

* 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 between stations to separate valve exhaust.

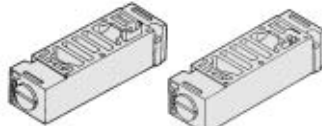
Body type	Plug-in type	Non plug-in type
Part no.	AXT636-1A	



Throttle valve spacer

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

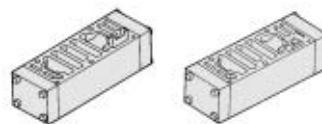
Body type	Plug-in type	Non plug-in type
Part no.	VVFS3000-20A-1	VVFS3000-20A-2



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.	VVFS3000-22A-1	VVFS3000-22A-2

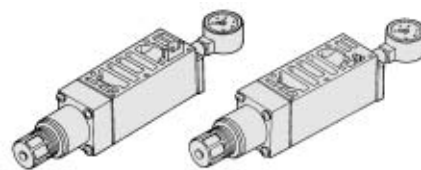


Interface regulator



Interface regulator set on manifold block can regulate the pressure to each valve. (Refer to page 3-8-6 for "Flow Characteristics".)

Body type	Plug-in type	Non plug-in type
P port regulation	ARBF3050-00-P-1	ARBF3050-00-P-2
A port regulation	ARBF3050-00-A-1	ARBF3050-00-A-2
B port regulation	ARBF3050-00-B-1	ARBF3050-00-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.

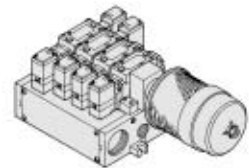
Body type	Plug-in type	Non plug-in type
Part no.	VVFS3000-10A	

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.

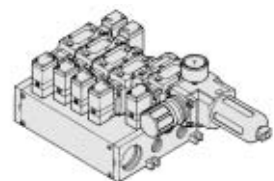


For details, refer to page 3-8-63.

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.

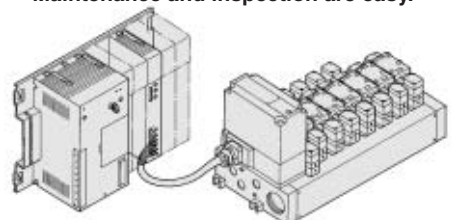


For details, refer to page 3-8-65.

With serial interface unit for serial transmission

Plug-in type

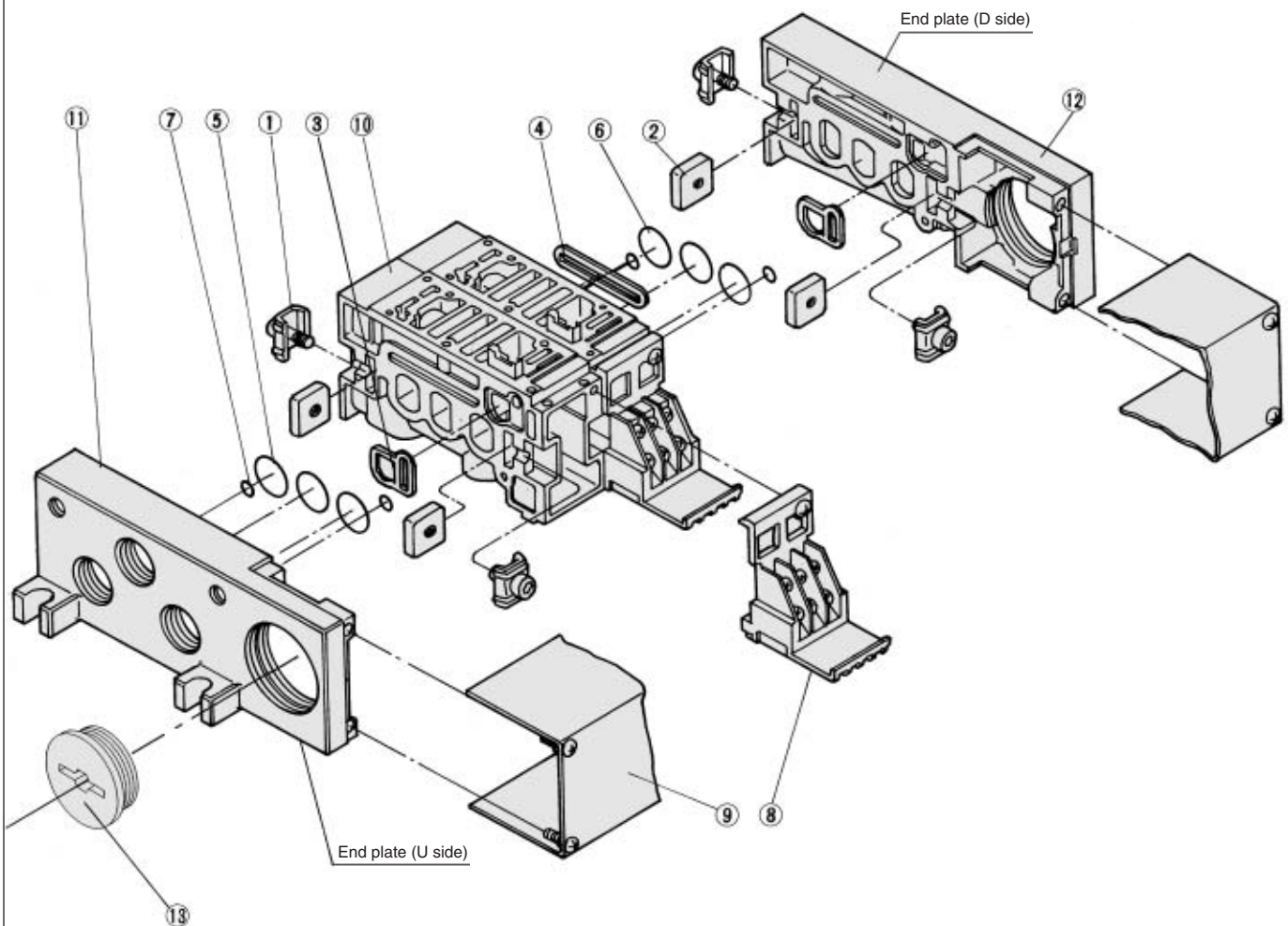
- Solenoid valve wiring process reduced considerably.
- Disperse installation possible.
Manifold solenoid valve: 8 stations max.
32 positions (512 solenoids).
- Maintenance and inspection are easy.



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

Series VFS3000

Manifold Base Construction Plug-in type, Non plug-in type



Replacement Parts

No.	Description	Material	Part no.
①	Connection fitting A	Steel plate	VVFS3000-5-1A
②	Connection fitting B	Steel plate	VVFS3000-5-2
③	Gasket	NBR	VVFS3000-7-1
④	Gasket	NBR	VVFS3000-8
⑤	O-ring	NBR	19.8 x 16.6 x 1.6 (End plate)
⑥	O-ring	NBR	20 x 16 x 2 (Manifold block)
⑦	O-ring	NBR	6.2 x 3 x 1.6
⑧	Terminal assembly		VVFS3000-6A
⑨	Junction cover assembly	For 01T	VVFS3000-4A- ⁰² ₀₃ [Stations]
		For 01SU	AZ738-22A- ⁰² ₀₃ [Stations]
⑬	Rubber plug	NBR	AXT336-9

- For increasing the manifold bases, please order the manifold block assembly number of the principal part assembly ⑩.
For plug-in type: The manifold base with terminal stand (integrated with a junction cover) is required with the ⑨ junction cover assembly.

Replacement Parts: Sub Assembly

No.	Description	Assembly part no.	Component parts	Applicable manifold base
⑩	Manifold block assembly	VVFS3000-1A-1- ⁰² ₀₃	Manifold block ⑩, Terminal ⑧, Metal joint ①, ②, Gasket ③, ④, O-ring ⑥, ⑦, Receptacle assembly	Plug-in type
		VVFS3000-1A-2- ⁰² ₀₃	Manifold block ⑩, Metal joint ①, ②, Gasket ③, ④, O-ring ⑥, ⑦	Non plug-in type
⑪	End plate (U side) assembly	VVFS3000-2A-1	End plate (U) ⑪, Metal joint ①, ②, O-ring ⑤, ⑥	Plug-in type
		VVFS3000-2A-2	End plate (U) ⑪, Metal joint ①, ②, O-ring ⑤, ⑥	Non plug-in type
⑫	End plate (D side) assembly	VVFS3000-3A-1	End plate (D) ⑫, Metal joint ①, ②, Gasket ③	Plug-in type
		VVFS3000-3A-2	End plate (D) ⑫, Metal joint ①, ②, Gasket ③	Non plug-in type



Note) Manifold Base/Construction: Plug-in with terminal block.