Series VFS3000
Manifold/Stacking Style

CAD

Keeps environmental air clean from pilot exhaust

Use of the VV5FS3-31 manifold can exhaust intensively the pilot exhaust gas to the base side, and can prevent environmental aggravation due to noise and oil mist.

VV5FS3-31

Specifications

Manifold base style	Stacking
Stations	Max. 15

Port Specifications

Symbol	Port specification		Porting specification		
			Base	Valve	Base
	P	EA, EB	P	A, B	EA, EB
1	Common	Common	Side: 3/8	Top: 1/4, 3/8	Side: 3/8

Options

Blank plate assembly	VVFS3000-10A-1	With gasket, screw
SUP block plate	AXT636-10A	–
EXH block plate	AXT636-11A	–

Note) Individual SUP or EXH is possible with bottom porting of SUP or EXH. For your order, please indicate it in the manifold specification.

How to Order Manifold Base

VV5FS3 − 31 − 05 1 − 03 □

Series VFS3000 Manifold

Stations

02	2 stations
⋮	⋮
15	15 stations

Symbol

	Port specification		Porting spec.
	P	EA, EB	A, B
1	Common Rc (PT)3/8	Common Rc (PT)3/8	Top porting Rc (PT)1/4, 3/8

P, EA ,EB port size

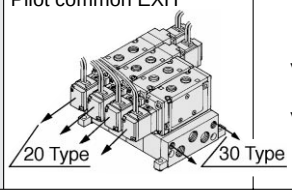
03–Rc (PT) 3/8

Thread

—	Rc (PT)
N*	NPT
T*	NPTF
F*	G (PF)

*Option

Base Model

Type	Pilot exhaust	Applicable valve
31	Pilot common EXH  20 Type 30 Type	VFS3□20-□□-02/03 VFS3□30-□□-02/03

Note) Also VFS3□20 is possible to manifold. In this case, it uses an individual pilot exhaust.

How to Order Manifold Base Assembly

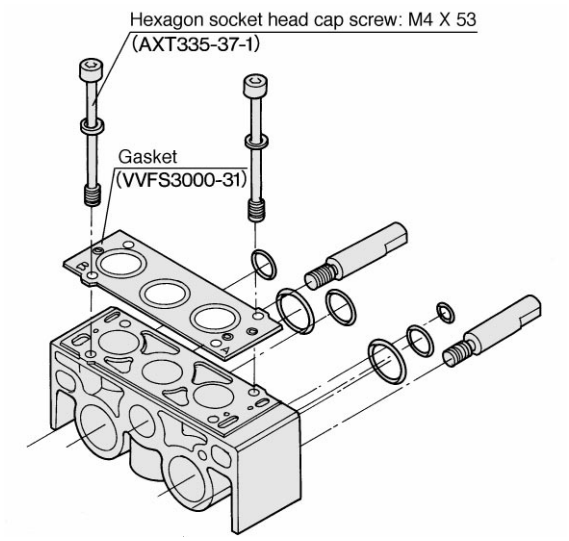
Please indicate manifold base style, valve model, and blank plate.

≪Example≫

(Manifold base)	**VV5FS3-31-061-03**	1
(2 position single)	**VFS3130-1D-02**	3
(2 position double)	**VFS3230-1D-02**	2
(Blank plate)	**VVFS3000-10A-1**	1

Manifold construction

Manifold block assembly VVFS3000-1A-30

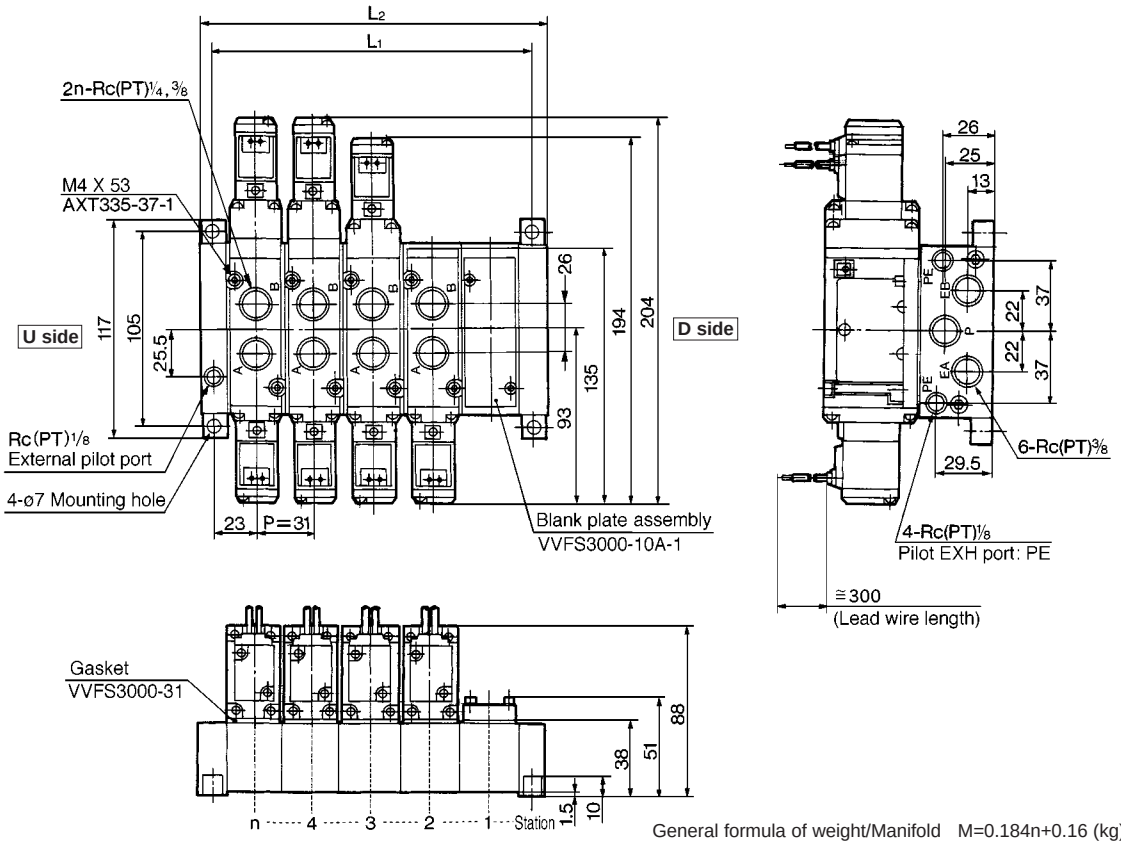


- For increasing the manifold bases, please prepare the manifold block assembly No.

CAD

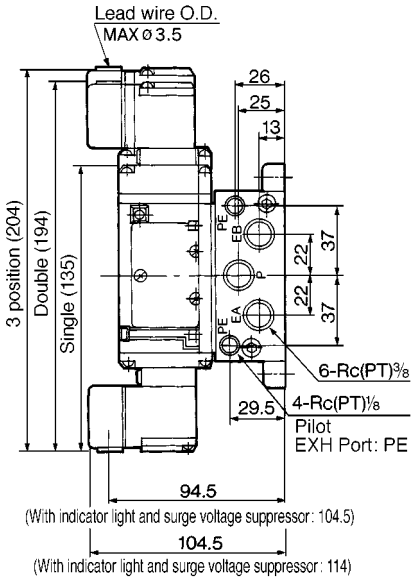
31 Type Manifold Pilot Common Exhaust: VV5FS3-31-Station 1-03

Grommet: G

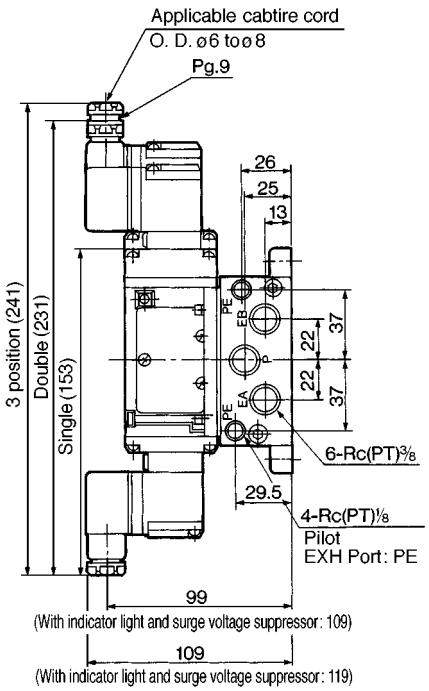


General formula of weight/Manifold M=0.184n+0.16 (kg) n: Station

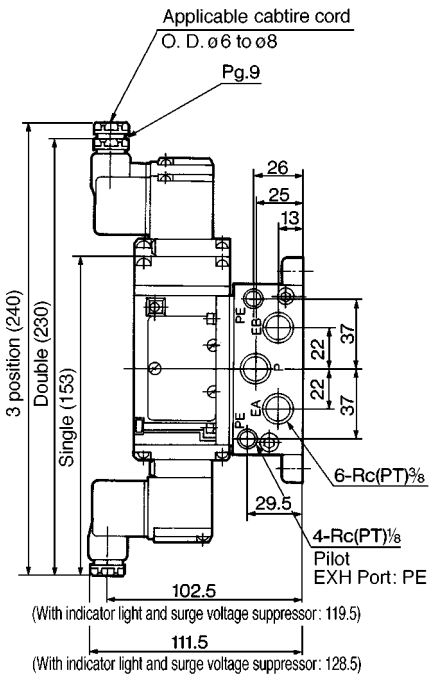
Grommet terminal: E, EZ



Conduit terminal: T, TZ



DIN connector: D, DZ



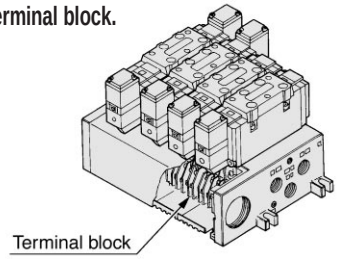
n: Station

L \ n	2	3	4	5	6	7	8	9	10	Equation
L1	77	108	139	170	201	232	263	294	325	L1=31 X n+15
L2	92	123	154	185	216	247	278	309	340	L2=31 X n+30

Series VFS3000
Manifold

Plug-in: 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 with terminal block
- Stations

02	2 stations
⋮	⋮
10	10 stations

- Symbol

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

*Option

- Port size

Symbol	P, EA, EB	A, B
02	Rc (PT) 1/2	Rc (PT)1/4
03		Rc (PT)3/8
M		Mix

- Thread

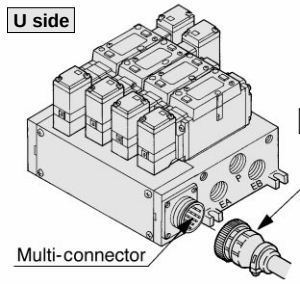
—	Rc (PT)
N*	NPT
T*	NPTF
F*	G (PF)

*Option

Plug-in: With Multi Connector

(Wiring specifications: Please refer to p.1.15-8.)

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



VV5FS3 − 01C | D | 05 | 2 | 02 |

- Series VFS3000 Manifold
- Plug-in with multi-connector
- Mounting direction of connector

D	D side mounting
U	U side mounting

- Stations

02	2 stations
⋮	⋮
08*	8 stations

*Max: 8 stations

- Symbol

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

*Option

- Port size

Symbol	P, EA, EB	A, B
02	Rc (PT) 1/2	Rc (PT)1/4
03		Rc (PT)3/8
M		Mix

- Thread

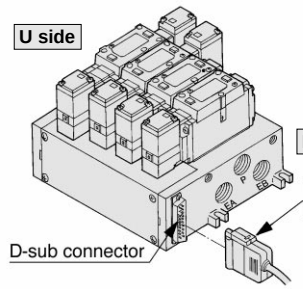
—	Rc (PT)
N*	NPT
T*	NPTF
F*	G (PF)

*Option

Plug-in: With D-Sub Connector

(Wiring specifications: Please refer to p.1.15-8.)

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



VV5FS3 − 01F | D | 06 | 1 | 02 |

- Series VFS3000 Manifold
- Plug-in with D-sub connector
- Mounting direction of connector

D	D side mounting
U	U side mounting

- Stations

02	2 stations
⋮	⋮
08*	8 stations

*Max: 8 stations

- Symbol

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

*Option

- Port size

Symbol	P, EA, EB	A, B
02	Rc (PT) 1/2	Rc (PT)1/4
03		Rc (PT)3/8
M		Mix

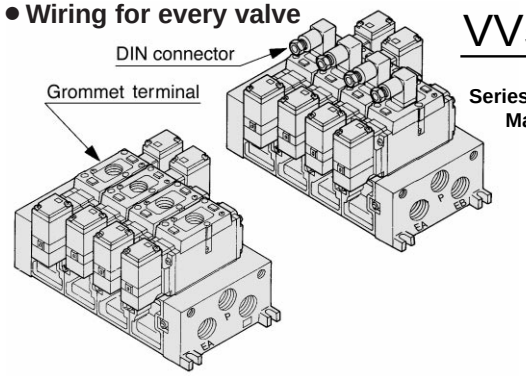
- Thread

—	Rc (PT)
N*	NPT
T*	NPTF
F*	G (PF)

*Option

Non Plug-in: With Grommet Terminal/DIN Connector

- Wiring for every valve



VV5FS3 − 10 | 05 | 2 | 02 |

- Series VFS3000 Manifold
- Non Plug-in
- Stations

02	2 stations
⋮	⋮
10	10 stations

- Symbol

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

*Option

- Port size

Symbol	P, EA, EB	A, B
02	Rc (PT) 1/2	Rc (PT)1/4
03		Rc (PT)3/8
M		Mix

- Thread

—	Rc (PT)
N*	NPT
T*	NPTF
F*	G (PF)

*Option

Manifold Specifications

Base style	Wiring	Porting	Port size Rc (PT)		No. of stations	Applicable solenoid valve
		A, B port	P, EA, EB	A, B		
Plug-in **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 **VV5FS3-10**	● DIN Connector ● 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.

Manifold Stations and Effective Area (mm²) (Cv factor)

Porting/No. of stations	First station	Fifth station	Tenth station
P→A or B	34.2 (1.9)	32.4 (1.8)	32.4 (1.8)
A→EA, B→EB	39.6 (2.2)	37.8 (2.1)	37.8 (2.1)

∗ Port size: Rc(PT) 3/8

How to Order Manifold

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

≪Example≫
● Plug-in with terminal block —— 6 stations
(Manifold base) VV5FS3-01T-061-02 ·····1
(2 position single) VFS3100-5FZ·····3
(2 position double) VFS3200-5FZ ·····2
(Blank plate) VVFS3000-R-03-2 ·····1

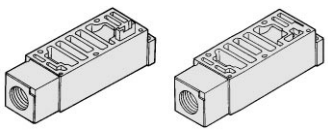
≪Example≫
● Non Plug-in with terminal block —— 6 stations
(Manifold base) VV5FS3-10-061-03 ·····1
(2 position single) VFS3110-5D·····5
(3 position exhaust center) VFS3410-5D ·····1
(Individual EXH spacer) VVFS300-R-03-2·····1

Manifold/Option Parts Assembly

Individual SUP spacer

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

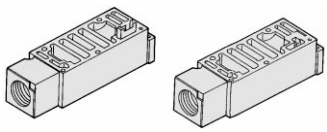
Body	Plug-in	Non plug-in
Part No.	VVFS3000-P-03-1	VVFS3000-P-03-2



Individual EXH spacer

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

Body	Plug-in	Non plug-in
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 plate in between stations subjected to different pressures.

Body	Plug-in	Non plug-in
Part No.	AXT636-1A	

EXH block disk ∗

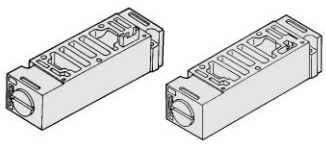
When valve exhaust affects the other stations on the circuit or when the reverse pressure valve is used to standard manifold valve, insert EXH block plate between stations to separate valve exhaust.

Body	Plug-in	Non plug-in
Part No.	AXT636-1A	

Interface speed control

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

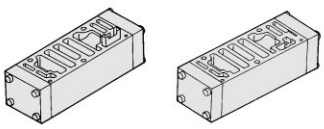
Body	Plug-in	Non plug-in
Part No.	VVFS3000-20A-1	VVFS3000-20A-2



Double check spacer

The concurrent use of double check spacer with built-in double check valve can stop the cylinder at mid-position and hold for a long time without being affected by the air leakage across spool seals.

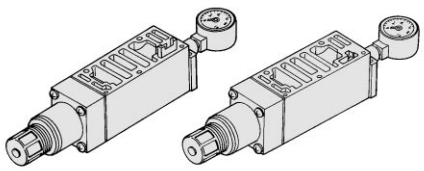
Body	Plug-in	Non plug-in
Part No.	VVFS3000-22A-1	VVFS3000-22A-2



Interface regulator

Interface regulator set on manifold block can regulate the pressure to each valve. Refer to p.1.15-6 for flow charactristic.

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



Blank plate

When disassembling valve for maintenance purposes or when spare manifold stations are required, install a blank plate on the manifold block.

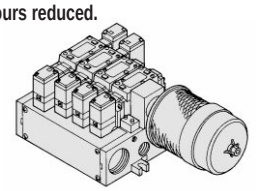
Body	Plug-in	Non plug-in
Part No.	VVFS3000-10A	

Manifold Options

With exhaust cleaner

Plug-in/Non plug-in

- **Valve exhaust noise dampening: 35dB or more.**
- **Oil mist collection: Rate of collection 99.9% or more.**
- **Piping hours reduced.**

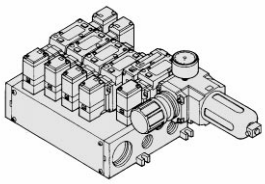


For more information, please refer to p.1.15-63.

With control unit

Plug-in/Non plug-in

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

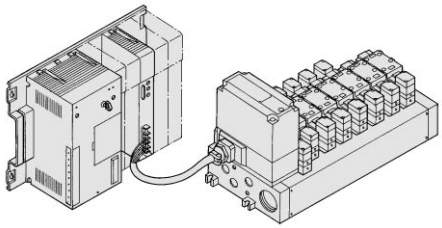


For more information, please refer to p.1.15-65.

With serial interface unit

Plug-in

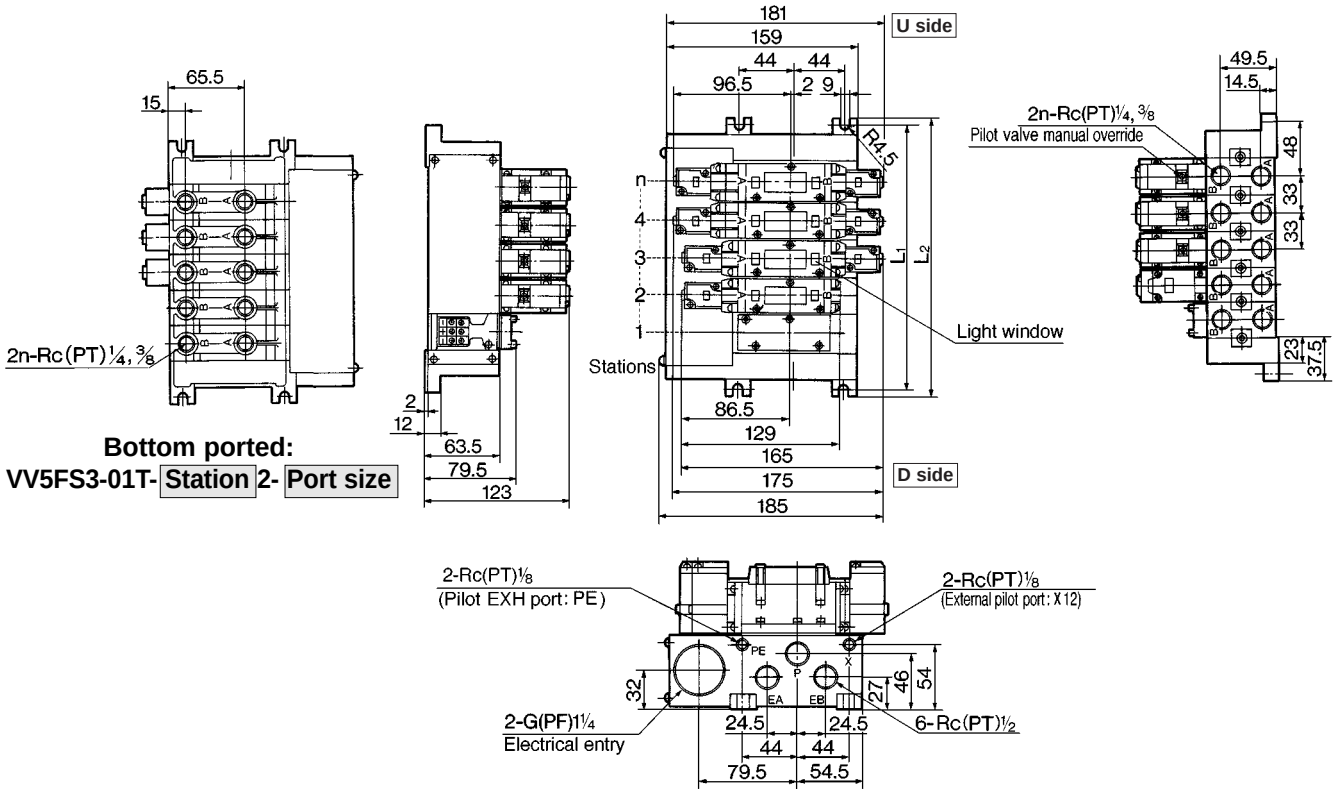
- **Solenoid valve wiring process reduced considerably.**
- **Disperse installation possible. Manifold solenoid valve: 8 stations max, 32 positions (512 solenoids).**
- **Maintenance and inspection are easy.**



CAD

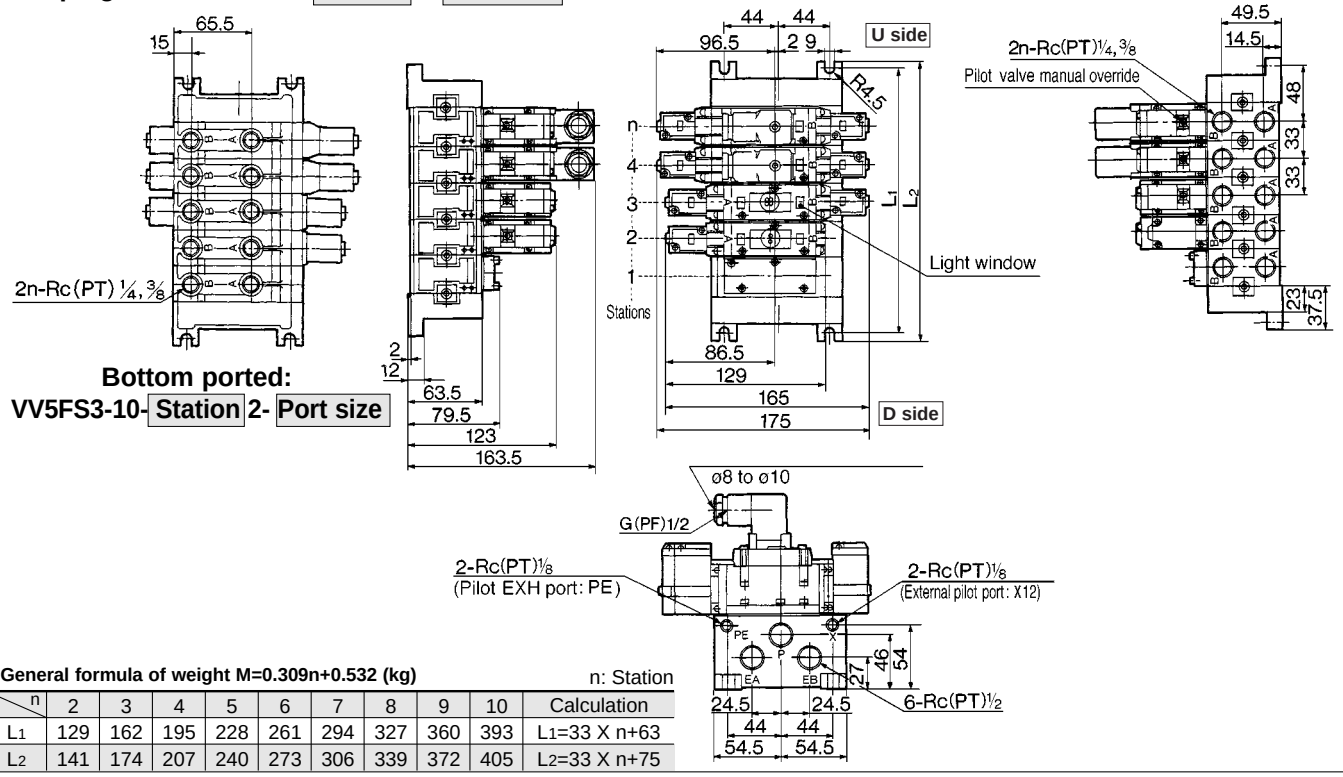
Manifold Plug-in/Non Plug-in

Plug-in (with terminal block): VV5FS3-01T- Station 1- Port size



General formula of weight M=0.405n+0.665 (kg) n: Station

Non plug-in: VV5FS3-10- Station 1- Port size



General formula of weight M=0.309n+0.532 (kg) n: Station

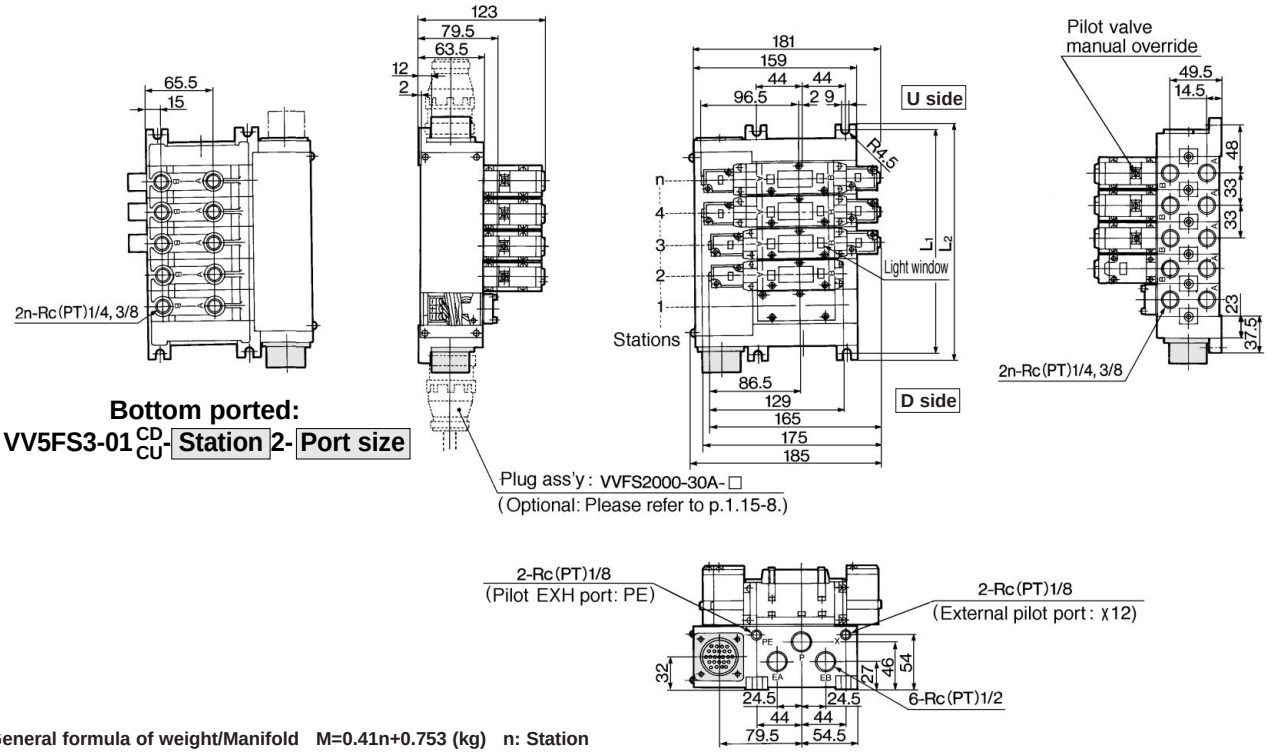
L \ n	2	3	4	5	6	7	8	9	10	Calculation
L_1	129	162	195	228	261	294	327	360	393	L_1=33 X n+63
L_2	141	174	207	240	273	306	339	372	405	L_2=33 X n+75

CAD Plug-in ——— SV5FS32, changed #5
Non plug-in ——— SV5FS32, #5

CAD

Manifold Plug-in with Multi-connector/With D-sub connector

Plug-in with multi-connector: VV5FS3-01CD- Station 1- Port size , VV5FS3-01CU- Station 1- Port size

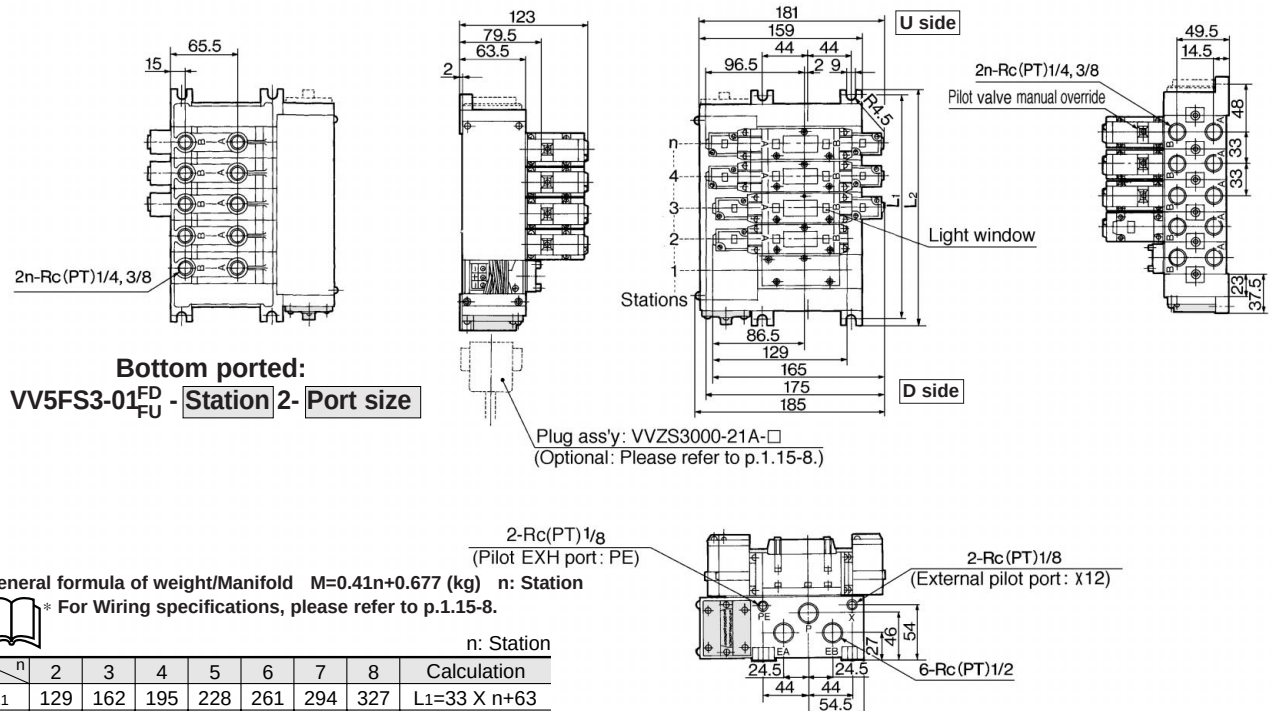


Bottom ported:
VV5FS3-01 CD/CU- Station 2- Port size

General formula of weight/Manifold M=0.41n+0.753 (kg) n: Station

* For Wiring specifications, please refer to p.1.15-8.

Plug-in with D-sub connector: VV5FS3-01FD- Station 1- Port size , VV5FS3-01FU- Station 1- Port size



Bottom ported:
VV5FS3-01FD/FU - Station 2- Port size

General formula of weight/Manifold M=0.41n+0.677 (kg) n: Station

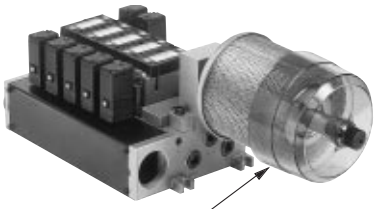
* For Wiring specifications, please refer to p.1.15-8.

n: Station

L \ n	2	3	4	5	6	7	8	Calculation
L1	129	162	195	228	261	294	327	L1=33 X n+63
L2	141	174	207	240	273	306	339	L2=33 X n+75

Manifold with Exhaust Cleaner

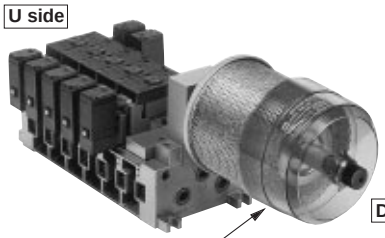
- **Serves to protect work environment.**
- **Valve exhaust noise dampening: 35dB or more.**
- **Collection rate of drainage and oil mist: 99.9% or more.**
- **Piping process reduced.**



Plug-in

Exhaust cleaner AMC610-10
(Optional)

U side



D side

Non plug-in

Exhaust cleaner AMC610-10
(Optional)

Manifold Specifications

Manifold style	**Plug-in: VV5FS3-01□**	**Non plug-in: VV5FS3-10**
Wiring	With terminal block board With multi-connector With D-sub connector	DIN connector Grommet terminal
Applicable valve	VFS3□00-□F	VFS3□10-□D, VFS3□10-□E
Porting Rc (PT)	Common SUP, Common EXH	
A, B Port	1/4, 3/8	
P, EA, EB port	P: 1/2, EXH: 1	
No. of stations	2 to 10 (1)	
Applicable exhaust cleaner	AMC610-10 (Connecting port size R (PT)1) (2)	

Note 1) With multi-connector, or with D-sub connector: 8 stations maximum.
Note 2) Exhaust cleaner "AMC610-10" is not attached.

How to Order

VV5FS3 – 10 □ – 06 1 – 03 □ – CD

Series VFS3000 Manifold

Base style/Wiring

01T	Plug-in With terminal block
01C	Plug-in With multi-connector
01F	Plug-in With D-sub connector
10	Non plug-in

Connector mounting direction

Symbol	With connector	Applicable base mounted
—	None	01T, 10
D	D-side mounting	01C, 01F
U	U side mounting	

Stations

02	2 stations
⋮	⋮
10	10 stations

Base style 01T, 10: 2 to 10 stations
Base style 01C, 01F: 2 to 8 stations

Symbol

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

*Option

Port size

Symbol	P	A, B
02	Rc (PT) 1/2	Rc (PT)1/4
03		Rc (PT)3/8
M		Mix

Thread

—	Rc (PT)
N*	NPT
T*	NPTF
F*	G (PF)

*Option

Exhaust cleaner mounting direction

Symbol	Exhaust cleaner mounting direction	
CD	D side	D side mounting
CU	U side	U side mounting

⚠ Precautions

When using exhaust cleaner, mount it downwards.

Please indicate manifold base mounting style, corresponding valve, and option parts.

≪Example≫

● Plug-in with terminal block (6 stations)

(Manifold base) **VV5FS3-01T-061-03-CD** ····· 1
(2 position single) **VFS3100-5FZ** ····· 3
(2 position double) **VFS3200-5FZ** ····· 2
(Blank plate) **VVFS3000-10A** ····· 1
(Exhaust cleaner) **AMC610-10** ····· 1

● Non plug-in (6 stations)

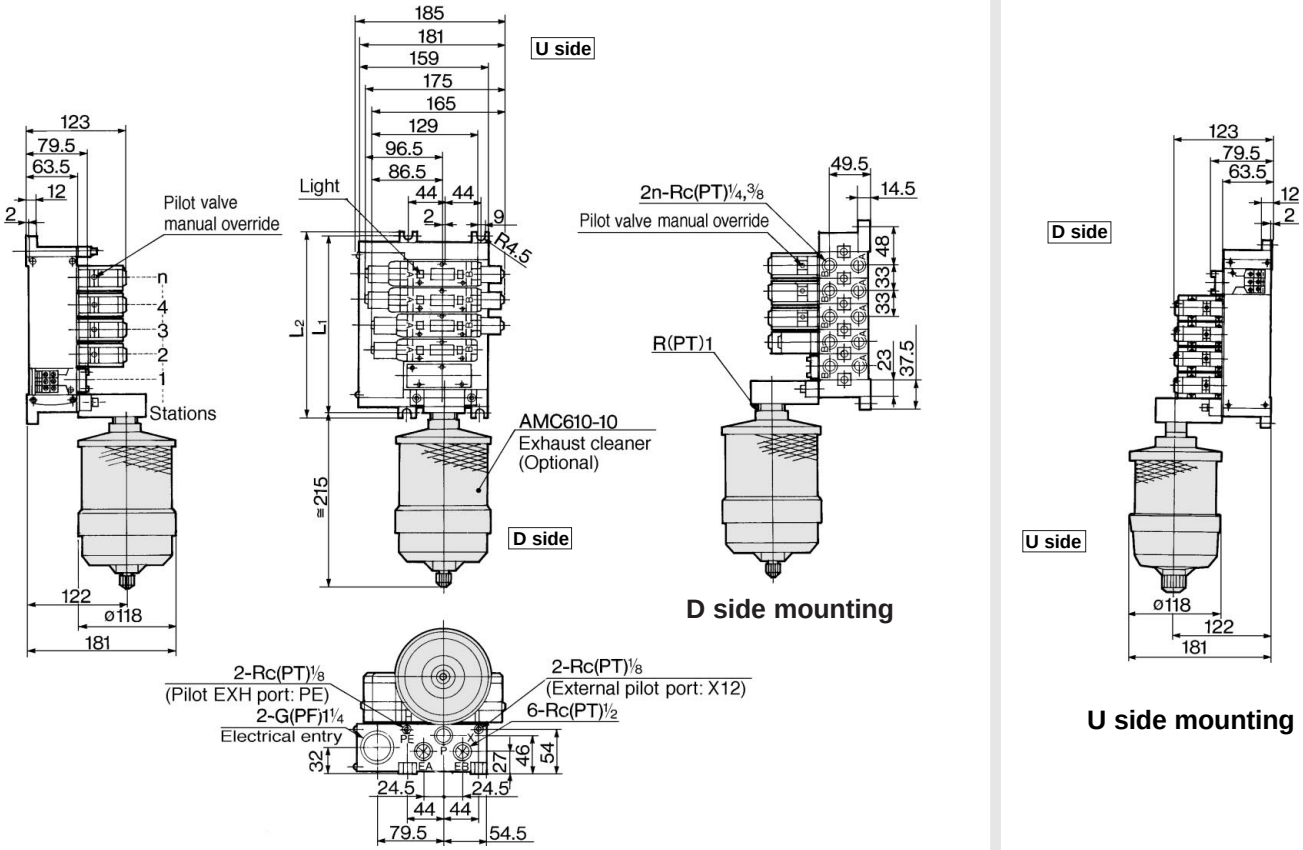
(Manifold base) **VV5FS3-10-061-03-CU** ····· 1
(2 position single) **VFS3110-5E** ····· 3
(2 position double) **VFS3210-5E** ····· 2
(Blank plate) **VVFS3000-10A** ····· 1
(Exhaust cleaner) **AMC610-10** ····· 1

*Refer to p.5-3-1 for details on exhaust cleaners.

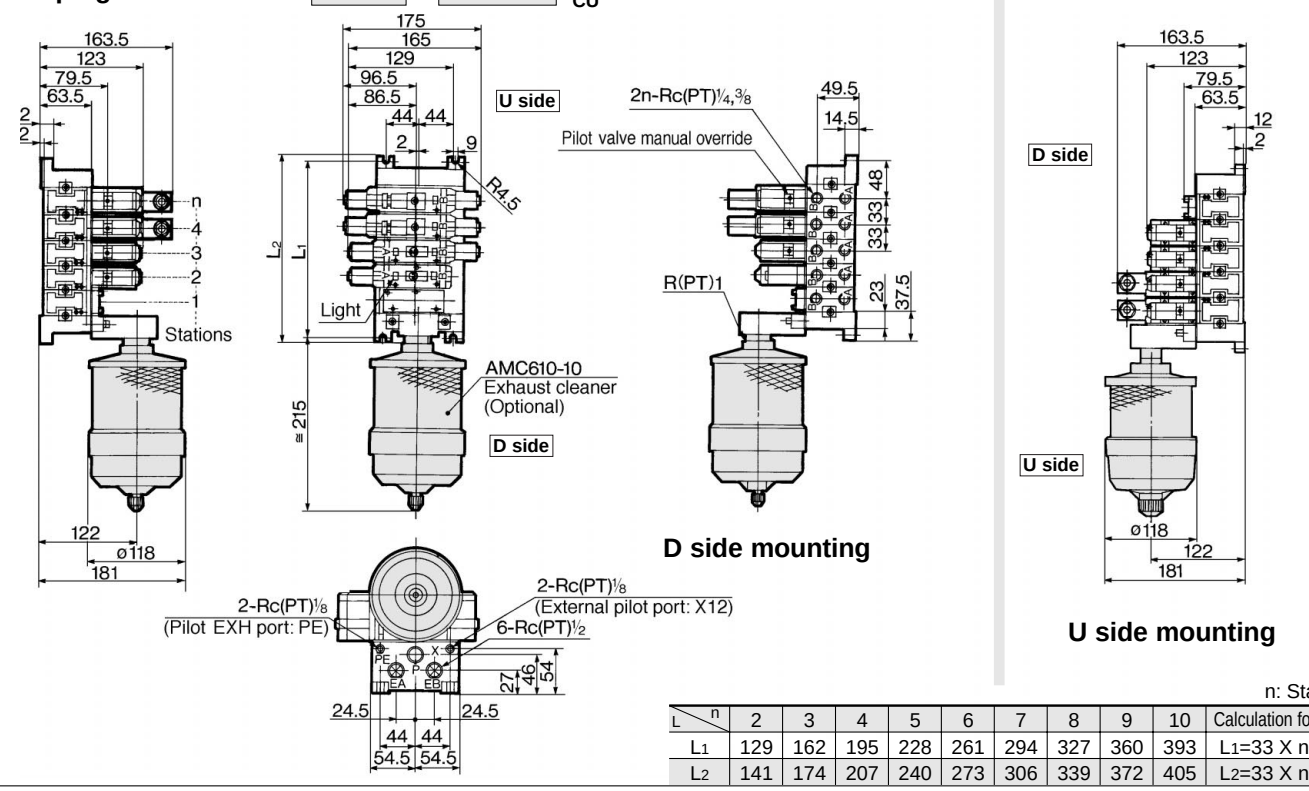
CAD

Manifold for Exhaust Cleaner — Plug-in/Non plug-in

Plug-in: VV5FS3-01T- Station 1- Port size - CD CU



Non plug-in: VV5FS3-10- Station 1- Port size - CD CU



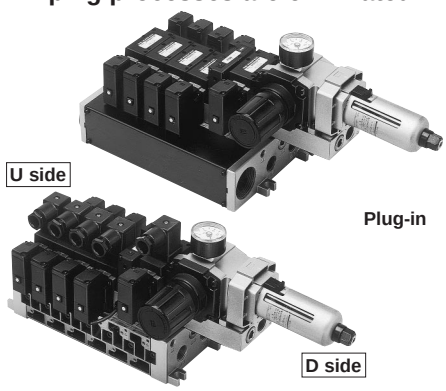
n: Station

L \ n	2	3	4	5	6	7	8	9	10	Calculation formula
L1	129	162	195	228	261	294	327	360	393	L1=33 X n+63
L2	141	174	207	240	273	306	339	372	405	L2=33 X n+75

CAD Manifold with exhaust cleaner ———— SV5FS32, #6

Manifold with Control Unit

- **Control units (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.**



⚠ Precautions

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

Manifold Specifications

Manifold style	Plug-in: VV5FS3-01□	Non plug-in: VV5FS3-10
Wiring	With terminal block With multi-connector With D-sub connector	DIN connector Grommet with terminal
Applicable valve	VFS3□00-F□	VFS3□10-□D, VFS3□10-□E
Porting specifications Rc (PT)	Common SUP, Common EXH	
A,B port	1/4 , 3/8	
P, EA, EB port	1/2	
No. of stations	2 to 10*	

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

Control Unit/Specifications

Air filter (With auto drain/with manual drain)	
Filtration	5μm
Regulator	
Set press. (Secondary)	0.05 to 0.85MPa
Pressure switch (1)	
Set press. range: OFF	0.1 to 0.6MPa
Differential	0.08MPa or less
Contact	1a
Light	LED (Red)
Max. switch capacity	2V AC, 2W DC
Max. operating current	24V AC, DC or less: 50mA 100V AC, DC: 20mA
Air release valve (Single only)	
Operating press. range	0.1 to 1.0MPa

Control Unit/Optional

Air release valve adaptor plate (2)	<Plug-in> VVFS3000-24A-1R (D side mounting)	
	<Non plug-in> VVFS3000-24A-2R (D side mounting)	
Pressure switch (3)	IS1000P-2-1	
Blank plate	Filter regulator	MP2-3
	Pressure switch	MP3-2
	Air release valve	VVFS3000-24A-10
Filter element	INA-13-854-12-40B	

Note 1) Rated voltage: 24V DC to 100V AC
Inner voltage drop: 4V
Note 2) Combination of valve VFS31□□ (single) and a release valve spacer can be used an air release valve.
Note 3) Non plug-in style cannot be mounted afterwords.

How to Order

VV5FS3 – 10 □ – 08 1 – 02 □ – AP □

Series VFS3000 Manifold

Base style/Wiring

01T	Plug-in with terminal block
01C	Plug-in with multi-connector
01F	Plug-in with D-sub connector
10	Non plug-in

Connector mounting direction

Symbol	Connector mounting	Applicable base
—	None	01T, 10
D	D side	01C, 01F
U	U side	

Stations

02	2 stations
⋮	⋮
10	10 stations

Base style 01T, 10: 2 to 10 stations
Base style 01C, 01F: 2 to 8 stations

Porting specification

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

*Option

Port size

Symbol	P, EA, EB	A, B
02	Rc (PT) 1/2	Rc (PT) 1/4
03		Rc (PT) 3/8
M		Mix

Thread

—	Rc (PT)
N*	NPT
T*	NPTF
F*	G (PF)

*Option

Voltage for air release valve

—	Without air release valve (F, G type only)
1	100V AC50/60Hz
5	24V DC
9	Other

Control unit

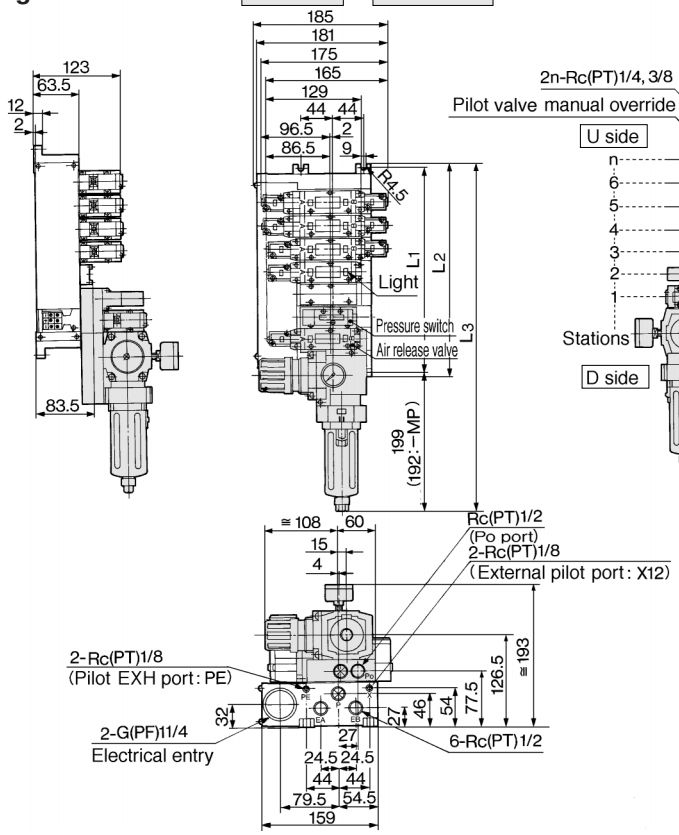
Control equipment \ Symbol	—	A	AP	M	MP	F	G	C	E
Air filter with auto drain		●	●			●			
Air filter with manual drain				●	●		●		
Regulator		●	●	●	●	●	●		
Air release valve		●	●	●	●			●	●
Pressure switch*			●		●				
Blank plate (Air release valve)						●	●		
Blank plate (Filter, regulator)								●	
Required manifold block	2 stations	2 stations	2 stations	2 stations	2 stations	2 stations	2 stations	2 stations	1 station

Please indicate manifold base mounting style, corresponding valve, and option parts.

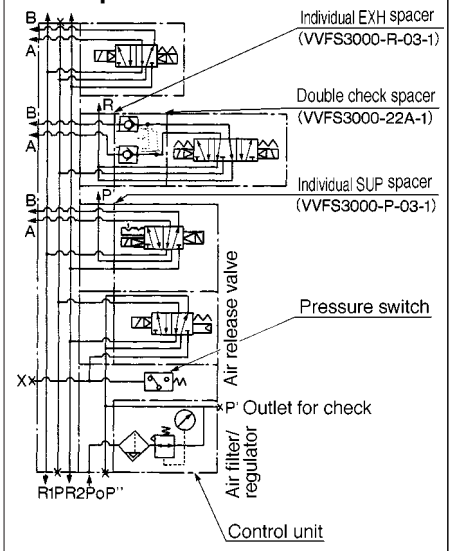
≪Ordering example≫ ● Plug-in with terminal block—Requires 2 stations
(Manifold base) **VV5FS3-01T-081-03-AP** ····· 1
(2 position single) **VFS3100-5FZ** ····· 4
(2 position double) **VFS3200-5FZ** ····· 2
≪Ordering example≫ ● Non plug-in—Requires 2 stations
(Manifold base) **VV5FS3-10-061-03-A** ····· 1
(2 position single) **VFS3110-5D** ····· 4

Manifold with Control Unit — Plug-in/Non Plug-in

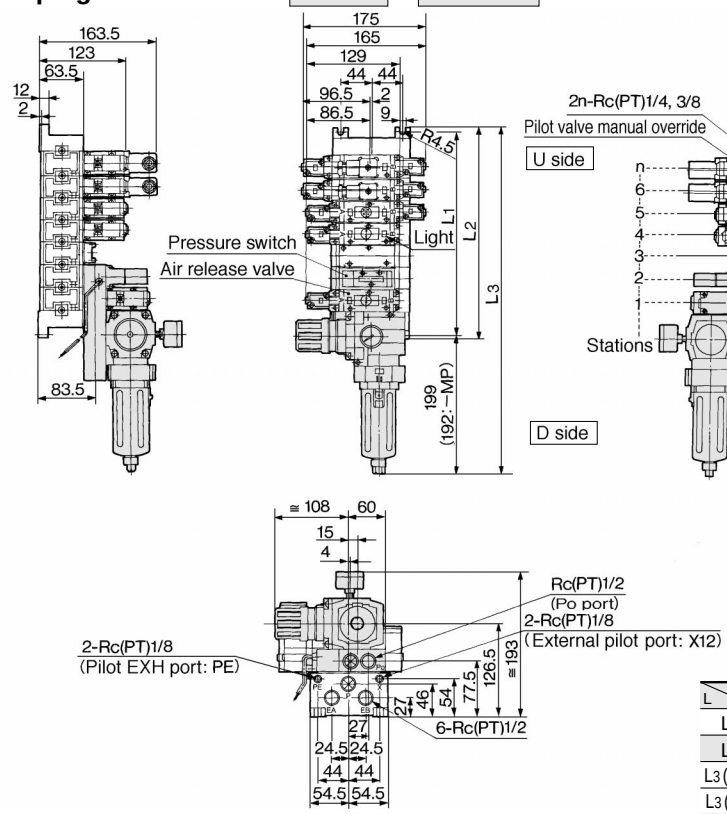
Plug-in: VV5FS3-01T-[Station]1-[Port size]-AP



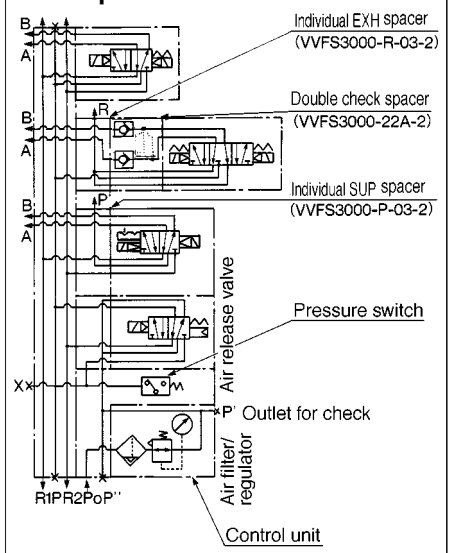
Example for manifold



Non plug-in: VV5FS3-10-[Station]1-[Port size]-AP



Example for manifold



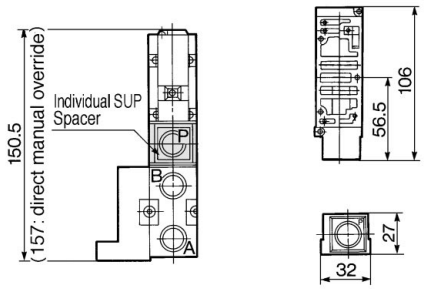
L \ n	3	4	5	6	7	8	9	10	Calculation
L_1	162	195	228	261	294	327	360	393	L_1=33 X n+63
L_2	174	207	240	273	306	339	372	405	L_2=33 X n+75
L_3(MP)	358	391	424	457	490	523	556	589	L_3=33 X n+259
L_3(AP)	379.5	412.5	445.5	478.5	511.5	544.5	577.5	610.5	L_3=33 X n+280.5

Manifold with control unit ———— SV5FS32, #7

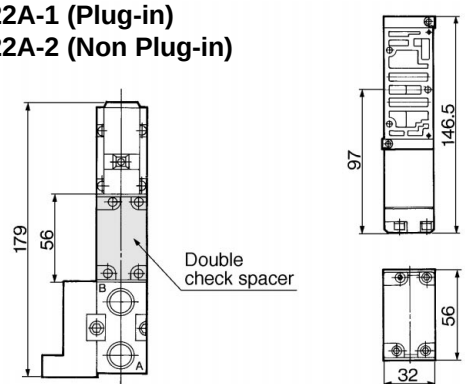
CAD

Manifold Option Parts — Plug-in/Non Plug-in

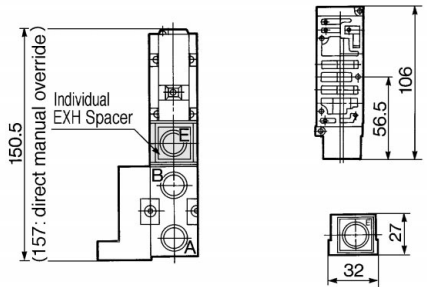
Individual SUP spacer:
VVFS3000-P-03-1 (Plug-in)
VVFS3000-P-03-2 (Non Plug-in)



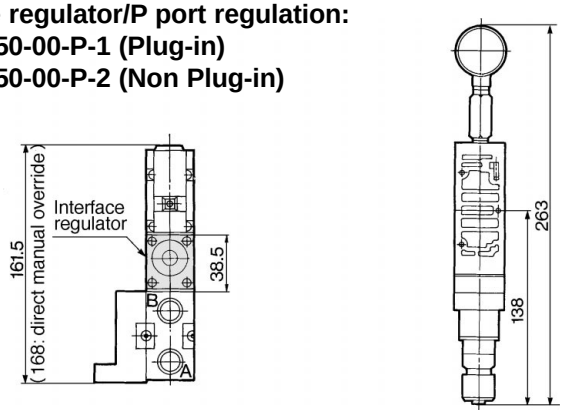
Double check spacer:
VVFS3000-22A-1 (Plug-in)
VVFS3000-22A-2 (Non Plug-in)



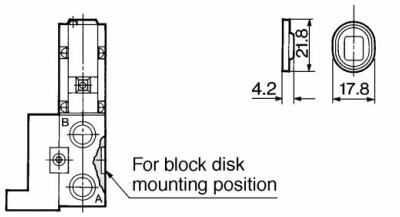
Individual EXH spacer:
VVFS3000-R-03-1 (Plug-in)
VVFS3000-R-03-2 (Non Plug-in)



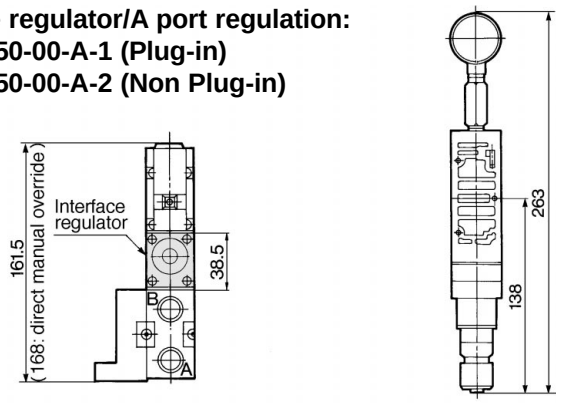
Interface regulator/P port regulation:
ARBF3050-00-P-1 (Plug-in)
ARBF3050-00-P-2 (Non Plug-in)



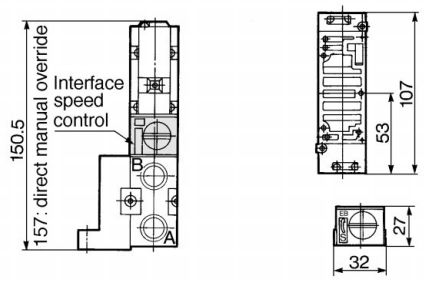
SUP, EXH block disk: AXT636-1A



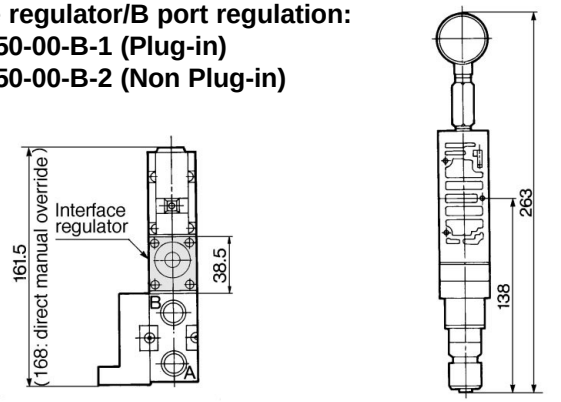
Interface regulator/A port regulation:
ARBF3050-00-A-1 (Plug-in)
ARBF3050-00-A-2 (Non Plug-in)



Interface speed control:
VVFS3000-20A-1 (Plug-in)
VVFS3000-20A-2 (Non Plug-in)



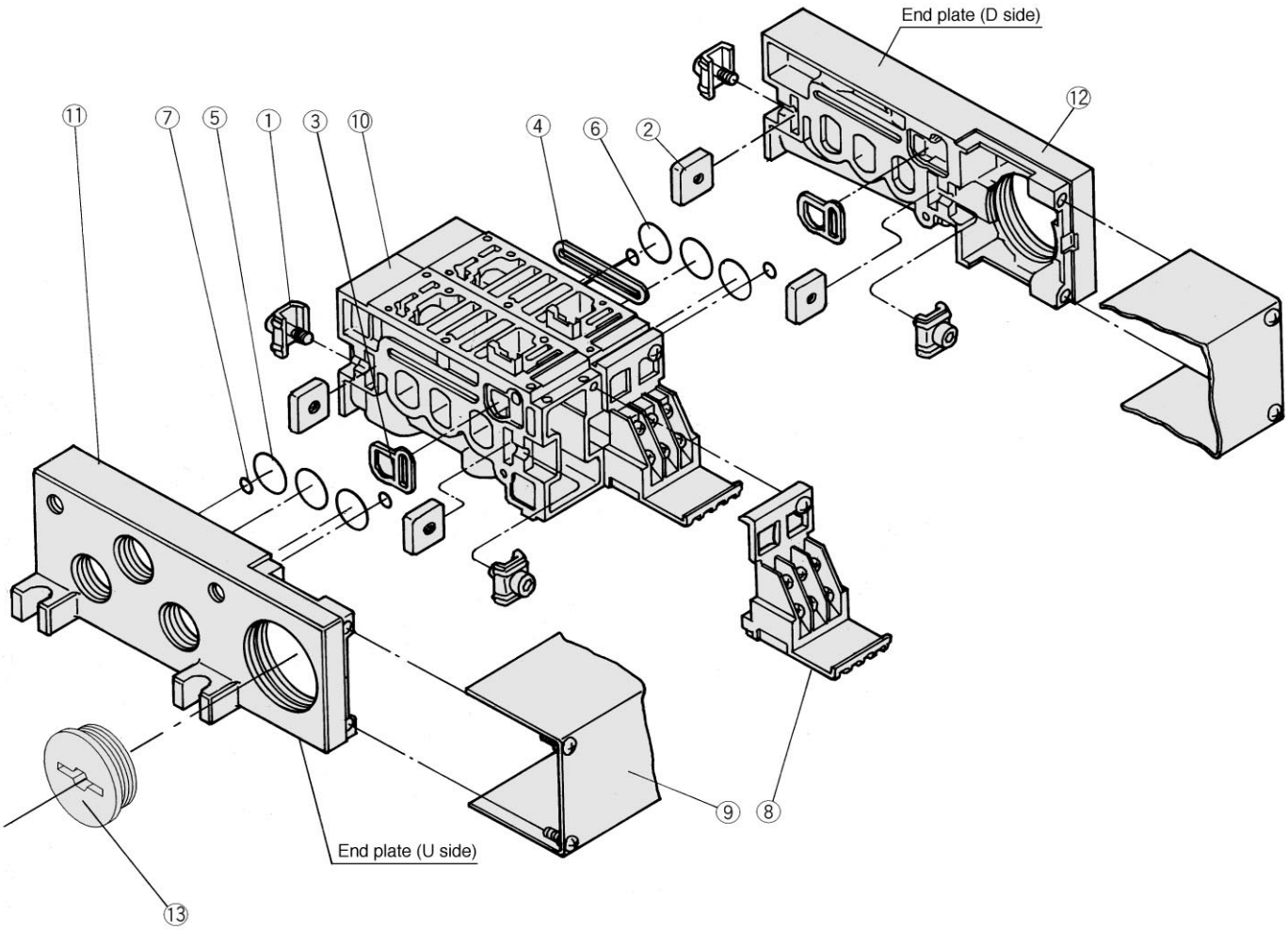
Interface regulator/B port regulation:
ARBF3050-00-B-1 (Plug-in)
ARBF3050-00-B-2 (Non Plug-in)



CAD

Individual SUP spacer ——— SV5FS32, #10, #001
Individual EXH spacer ——— SV5FS32, #10, #002
Interface speed controller ——— SV5FS32, #10, #003
Double check interface ——— SV5FS32, #10, #004
Interface regulator/Pressure regulation P ——— SV5FS32, #10, #005
Interface regulator/Pressure regulation A ——— SV5FS32, #10, #006
Interface regulator/Pressure regulation B ——— SV5FS32, #10, #007

Manifold Base Construction　Plug-in/Non Plug-in



Replacement Parts

No.	Description	Material	Part No.
①	Metal joint A	Steel plate	VVFS3000-5-1A
②	Metal joint B	Steel plate	VVFS3000-5-2
③	Gasket	NBR	VVFS3000-7
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-[stations]
		For 01SU	AZ738-22A-[stations]
⑬	Rubber plug	NBR	AXT336-9

- **For increasing the manifold bases, please order the manifold block assembly number of the principal part assembly ⑨. For plug-in: The manifold base with terminal stand (integrated with a junction cover) is required with the ⑧ junction cover assembly.**

Replacement Parts Sub-assembly

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

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
		VVFS3000-1A-2-$^{02}_{03}$	Manifold block ⑩, Metal joint ①, ②, Gasket ③, ④, O ring ⑥, ⑦	Non plug-in
⑪	End plate (U side) assembly	VVFS3000-2A-1	End plate (U) ⑪, Metal joint ①, ②, O ring ⑤, ⑥	Plug-in
		VVFS3000-2A-2	End plate (U) ⑪, Metal joint ①, ②, O ring ⑤, ⑥	Non plug-in
⑫	End plate (D side) assembly	VVFS3000-3A-1	End plate (D) ⑫, Metal joint ①, ②, Gasket ③	Plug-in
		VVFS3000-3A-2	End plate (D) ⑫, Metal joint ①, ②, Gasket ③	Non plug-in

HOW TO ORDER NVFS3000

NVFS 3 ○ 0 ○ ○ — ○ F ○ ○ — ○ ○

POSITION
1 .....2 Position Single
2 .....2 Position Double
3 .....3 Position Closed Center
4 .....3 Position Exhaust Center
5 .....3 Position Pressure Center
6 .....3 Position Perfect

BODY TYPE
0 .....Plug-In Type

MANUAL OPTION
0 .....Standard
1 .....Std & Direct Manual (Special Order)

PILOT OPERATOR
- .....Internal
R .....External (Special Order)

VOLTAGE
1 .....100VAC (Special Order)
2 .....200VAC (Special Order)
3 .....110VAC
4 .....220VAc
5 .....24VDC
6 .....12VDC
9 .....Others (Special Order)

ELECTRICAL ENTRY
F .....Through Base

OPTIONS
- .....None
Z .....With Indicator Light and Surge Voltage Suppressor

MANUAL OVERRIDE
- .....Non Locking Push Type (Flush)
*A ...Non Locking Push Type (Extended)
B .....Lock Type (Screw Type)
*C ...Lock Type (Lever)

Note) * Special Order

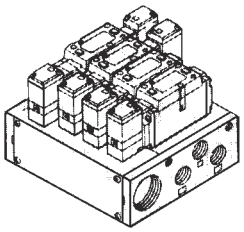
PORTING
- .....Side
*B ...Bottom
Note) *1/8 NPTF Only

PORT SIZE
- .....Without Subplate
02T ...1/4 NPTF
03T ...3/8 NPTF*
* Not available for Bottom Ported

HOW TO ORDER MANIFOLD

Plug-in Type: With Terminal Blocks

●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.



NVV5FS3 — 01T — 06 1 — 02T

Series NVFS3000 Manifold valve

Plug-in type With terminal block

Stations

02	2 stations
⋮	⋮
10	10 stations

Porting Symbol

Symbol	Port specifications P	Port specifications EA, EB	Porting Specifications (A,B)
1	Common	Common	Side
※2			Bottom (Option)
	Mixed		

※ Special Order.

Port size

Symbol	A, B
02T	1/4NPTF
03T	3/8NPTF

* Bottom ported 1/4NPTF only.

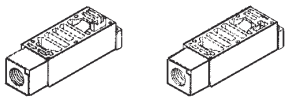
HOW TO ORDER MANIFOLD / OPTION PARTS ASSEMBLY

Manifold/Option Parts

SUP Relocation spacer

An individual SUP spacer on manifold block can form individual P port for the valve.

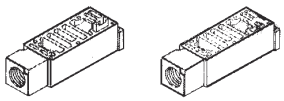
Body type	Plug-in type
Part No.	NVVFS3000-P-03T-1



EXH Relocation spacer

An individual EXH spacer on the manifold block can form individual R port for the valve.

Body type	Plug-in type
Part No.	NVVFS3000-R-03T-1



SUP gallery block disc

When supplying manifold with more than one pressure, insert block disc in between stations subjected to different pressures.

Body type	Plug-in type
Part No.	AXT636-1A

EXH gallery block disc

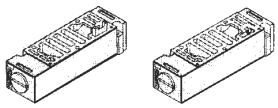
When valve exhaust affects the other stations on the circuit or when externally piloted, dual pressure valve is used on a standard manifold, insert EXH block disc(s) in between stations to separate valve exhaust.

Body type	Plug-in type
Part No.	AXT636-1A

Interface Speed Control

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

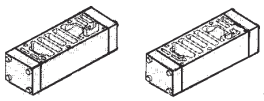
Body type	Plug-in type
Part No.	NVVFS3000-20A-1



Double Check "Perfect" spacer

The concurrent use of perfect spacer with built-in double check valve can stop the cylinder at mid-position and hold for extended time without being affected by normal air leakage across spool seals.

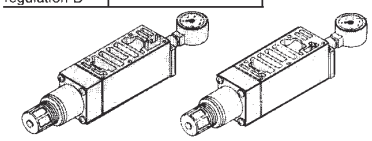
Body type	Plug-in type
Part No.	NVVFS3000-22A-1



Interface regulator

Spacer type regulating valve on manifold block can regulate the pressure to the valve.

Body type	Plug-in type
Pressure regulation P	NARBF3000-N0-P-1
Pressure regulation A	NARBF3000-N0-A-1
Pressure regulation B	NARBF3000-N0-B-1



Blank plate

When disassembling valve for maintenance purposes or when spare manifold stations are required, install Blank plate on the manifold block.

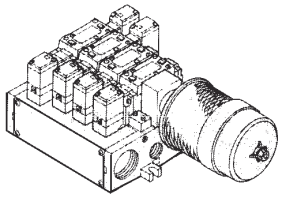
Body type	Plug-in type
Part No.	VVFS3000-10A

Manifold Options

Exhaust Cleaner Unit

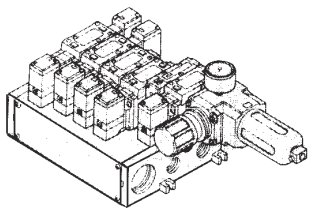
Plug-in type

- Valve exhaust noise damping: 35dB or more.
- Oil mist collection: Rate of collection 99.9% or more.
- Piping process reduced.



Control Unit

- Filter/Regulator, Pressure switch, and Air shutoff valve all combine to form one unit.
- Piping work eliminated.



For more information, refer to catalog N233