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5 Port Pilot Operated Solenoid Valve
Metal Seal, Plug-in/Non Plug-in
Series VFS2000

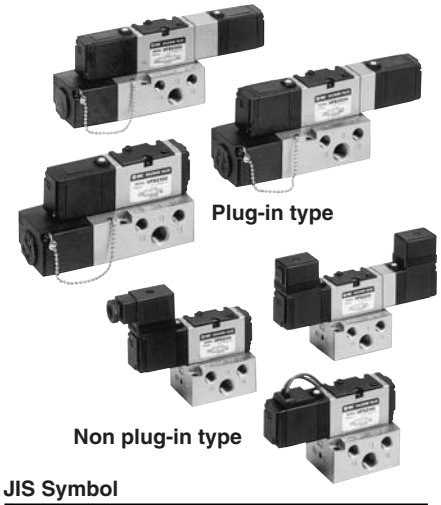
NRTL /C

Model

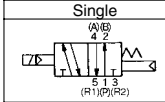
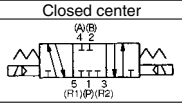
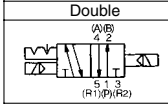
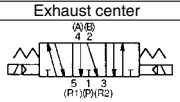
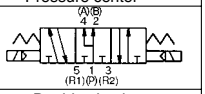
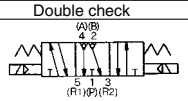
Type of actuation		Model: Plug-in	Model: Non plug-in	Port size Rc	Flow characteristics: 1→4/2(P→A/B) C [dm³/(s·bar)]	b	Cv	Flow characteristics: 4/2→5/3(A/B→R1/R2) C [dm³/(s·bar)]	b	Cv	Max.(1) operating cycle (cpm)	Response(2) time (ms)	Mass(3) (kg)
2 position	Single	**VFS2100**	**VFS2110**	1/8	2.4	0.16	0.55	2.8	0.20	0.65	1200	15 or less	0.34
				1/4	2.5	0.18	0.58	2.8	0.21	0.65			
	Double	**VFS2200**	**VFS2210**	1/8	2.4	0.16	0.55	2.8	0.20	0.65	1200	13 or less	0.42
				1/4	2.5	0.18	0.58	2.8	0.21	0.65			
3 position	Closed center	**VFS2300**	**VFS2310**	1/8	2.3	0.14	0.53	2.6	0.20	0.61	600	20 or less	0.43
				1/4	2.5	0.18	0.58	2.6	0.23	0.62			
	Exhaust center	**VFS2400**	**VFS2410**	1/8	2.4	0.15	0.54	2.7	0.25	0.63	600	20 or less	0.43
				1/4	2.5	0.20	0.60	2.7	0.24	0.63			
	Pressure center	**VFS2500**	**VFS2510**	1/8	2.5	0.11	0.55	2.7	0.20	0.62	600	20 or less	0.43
				1/4	2.8	0.17	0.63	2.7	0.22	0.63			
	Double check	**VFS2600**	**VFS2610**	1/8	1.2	–	–	1.3	–	–	600	25 or less	0.6
				1/4	1.2	–	–	1.3	–	–			

Note 1) Based on JIS B 8375 (Once per 30 days) for the minimum operating frequency. Note 2) Based on JIS B 8375-1981 (The value at supply press. 0.5 MPa).
Note 3) Values for VFS2□00-□FZ-01. Note 4) Factors of "Note 1)" and "Note 2)" are ones achieved in controlled clean air.

Compact yet provides a large flow capacity
1/4: C: 2.8 dm³/(s·bar)
Low power consumption: 1.8 W DC
Easy maintenance
2 types of sub-plates:
Plug-in and non plug-in



JIS Symbol

2 position	3 position
Single	Closed center
	
Double	Exhaust center
	
	Pressure center
	
	Double check
	

Standard Specifications

Valve specifications	**Fluid**		Air/Inert gas
	Maximum operating pressure		1.0 MPa
	Min. operating pressure	**2 position**	0.1 MPa
		3 position	0.15 MPa
	Proof pressure		1.5 MPa
	Ambient and fluid temperature		–10 to 60°C (1)
	Lubrication		Non-lube (2)
	Pilot valve manual override		Non-locking push type (Flush)
	Shock/Vibration resistance		150/50 m/s² (3)
	Enclosure		Type G, E: Dustproof (Class 0), Type F, T, D: Splashproof (Class 4) (4)
Electricity specifications	**Coil rated voltage**		100, 200 VAC, 50/60 Hz; 24 VDC
	Allowable voltage fluctuation		–15 to +10% of rated voltage
	Coil insulation type		Class B or equivalent (130°C) (5)
	Apparent power (Power consumption) AC	**Inrush**	5.6 VA/50 Hz, 5.0 VA /60 Hz
		Holding	3.4 VA (2.1 W)/50 Hz, 2.3 VA (1.5 W)/60 Hz
	Power consumption DC		1.8 W (2.04 W: With light/surge voltage suppressor)
	Electrical entry		Plug-in type: Conduit terminal; Non plug-in type: Grommet terminal, DIN terminal

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 45 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

Pilot type	External pilot Note)
Manual override	Non-locking push type (Extended), Locking type (Tool required), Locking type (Lever)
Coil rated voltage	110 to 120, 220, 240 VAC, 50/60 Hz
	12, 100 VDC
Porting specifications	Bottom ported
Option	With light/surge voltage suppressor

Note) Operating pressure: 0 to 1.0 MPa
Pilot pressure 2 position: 0.1 to 1.0 MPa 3 position: 0.15 to 1.0 MPa

Compact, lightweight type sub-plate

Compared with the standard type, this is the sub-plate having the reduced external dimensions and lighter weight. But, use caution that Cv factor or piping port position is different from the standards.
For details, refer to page 1161.

Sub-plate	L (mm)	Mass (kg)	Sonic conductance * C [dm³/(s·bar)]
Standard type	31.0	0.2	2.2
Compact type	25.5	0.13	2.8

* 2 position single Rc 1/4

How to Order



With attachment plug lead wire



With terminal block

Porting specifications

Nil	Side ported
B*	Bottom ported

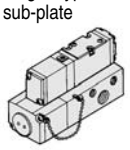
* Option

Option

Nil	None
Z	With light/surge voltage suppressor

Body type

O: Plug-in type sub-plate



Electrical entry

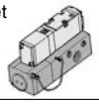
F: Plug-in type



Port size

Nil		Without sub-plate
01	Rc 1/8	Plug-in type conduit terminal (With terminal block) Standard type
02	Rc 1/4	
Note) P01	Rc 1/8	Plug-in type grommet (With attachment plug lead wire) Compact type
Note) P02	Rc 1/4	





Thread type

Nil	Rc
N*	NPT
T*	NPTF
F*	G

* Option

Note) Please note Cv factor and piping port location of compact sub-plate is different from standard. Refer to page 1161 for details.

Plug-in VFS2 2 00 □ – 5 F □ □ – □ 01 □

Non plug-in VFS2 2 10 □ – 1 E □ □ – □ 02 □

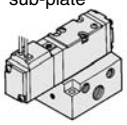


Symbol

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 double check

Body type

1: Non plug-in type sub-plate



Pilot type

Nil	Internal pilot
R*	External pilot

* Option: External pilot is possible only to the one with sub-plate.

Coil rated voltage

1	100 VAC, 50/60 Hz
2	200 VAC, 50/60 Hz
3*	110 to 120 VAC, 50/60 Hz
4*	220 VAC, 50/60 Hz
5	24 VDC
6*	12 VDC
7*	240 VAC, 50/60 Hz
9*	Other

* Option

Pilot valve manual override

Nil: Non-locking push type (Flush)	B*: Locking type (Tool required)
A*: Non-locking push type (Extended)	C*: Locking type (Lever)









* Option

Option

Nil	None
Z	With light/surge voltage suppressor
S*	With surge voltage suppressor

* Grommet type is available only w/ surge voltage suppressor, not w/ indicator light.

Port size

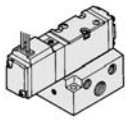
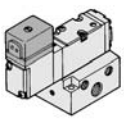
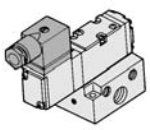
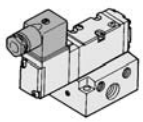
Nil		Without sub-plate
01	Rc 1/8	Non plug-in type, Standard type
02	Rc 1/4	
Note) S01	Rc 1/8	Non plug-in type, Compact type
Note) S02	Rc 1/4	





Note) Please note Cv factor and piping port location of compact sub-plate are different from standard. Refer to page 1161 for details.

Electrical entry

G: Grommet	E: Grommet terminal	T: Conduit terminal	D, Y: DIN terminal
			

How to Order Pilot Valve Assembly

SF4 – 1 DZ □ – 20

Coil rated voltage

1	100 VAC, 50/60 Hz
2	200 VAC, 50/60 Hz
3*	110 to 120 VAC (50/60 Hz)
4*	220 VAC, 50/60 Hz
5	24 VDC
6*	12 VDC
7*	240 VAC, 50/60 Hz
9*	Other

* Option

Electrical entry, Light/Surge voltage suppressor

F	Plug-in	Plug-in
G	Grommet	Non plug-in
GS	Grommet with surge voltage suppressor	
D	DIN terminal	
DZ	DIN terminal with light/surge voltage suppressor	
DO	DIN terminal*	
DOZ	DIN terminal with light/surge voltage suppressor*	
Y	DIN terminal	
YZ	DIN terminal with light/surge voltage suppressor	

YO	DIN terminal*	Non plug-in
YOZ	DIN terminal with light/surge voltage suppressor*	
T	Conduit terminal	
TZ	Conduit terminal with light/surge voltage suppressor	
E	Grommet terminal	
EZ	Grommet terminal with light/surge voltage suppressor	

* DIN connector is not attached.
** Refer to page 1223 for voltage conversion.
*** D: Conforming to DIN43650 standard;
Y: Conforming to DIN43650B standard

Manual override

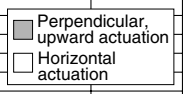
Nil	Non-locking push type (Flush)
A*	Non-locking push type (Extended)
B*	Locking type (Tool required)
C*	Locking type (Lever)

* Option

Cylinder Speed Chart

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

System	Average speed (mm/s)	Bore size											
		Series CM Pressure 0.5 MPa Load factor 50% Stroke 300 mm				Series MB, CA2 Pressure 0.5 MPa Load factor 50% Stroke 500 mm					Series CS1/CS2 Pressure 0.5 MPa Load factor 50% Cylinder stroke 1000 mm		
		ø20	ø25	ø32	ø40	ø40	ø50	ø63	ø80	ø100	ø125	ø140	ø160
A	800 700 600 500 400 300 200 100 0												
B	800 700 600 500 400 300 200 100 0												



System Components

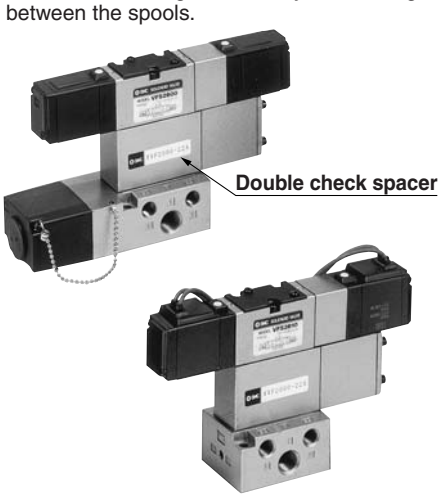
System	Solenoid valve	Speed controller	Silencer	Tube bore x Length
A	Series VFS2000 Rc 1/8	AS3000-02 (S = 12 mm²)	AN110-01 (S = 35 mm²)	T0604 x 1 m
B	Series VFS2000 Rc 1/4	AS4000-02 (S = 21 mm²)	AN110-01 (S = 35 mm²)	T1075 x 1 m

∗ It is when the cylinder is extending that is meter-out controlled by speed controller which is directly connected with cylinder, and its needle valve with being fully open.
∗ The average velocity of the cylinder is the value that the stroke is divided by the total stroke time.
∗ Load factor: ((Load weight x 9.8)/Theoretical force) x 100%

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.



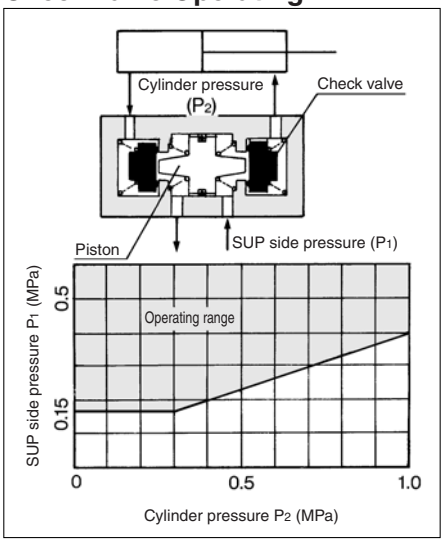
Specifications

Double check spacer part no.	Plug-in type	Non plug-in type
	VVFS2000-22A-1	**VVFS2000-22A-2**
Applicable valve model	VFS2400-□F	VFS2410-□ G E T D

⚠ Caution

- In the case of 3 position double check valve (VFS26□0), 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.
- Be aware that if the exhaust side is restricted excessively, the intermediate stopping accuracy will decrease and will lead to improper intermediate stops.

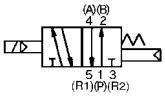
Check Valve Operating

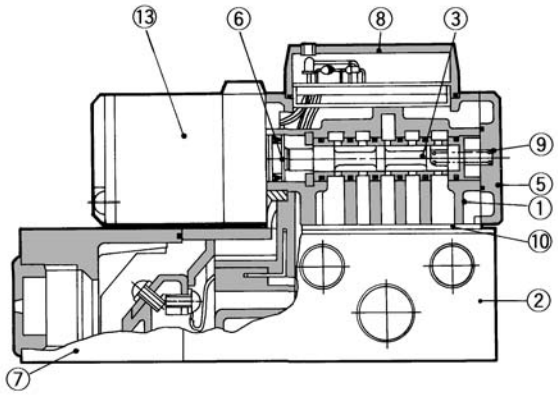


- The combination of VFS21$^{0}_{1}$0, VFS22$^{0}_{1}$0 and a double check spacer can be used as prevention of falling at the stroke end but cannot hold the intermediate position of the cylinder.

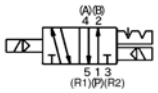
Construction

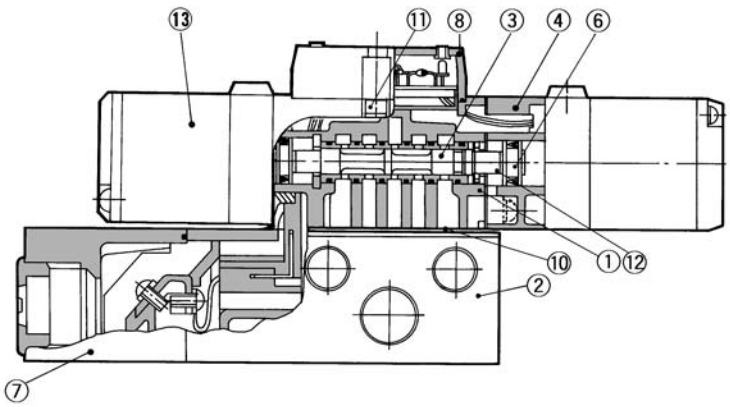
2 position single





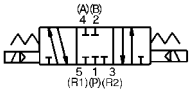
2 position double



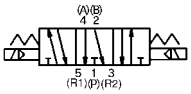


3 position closed center/exhaust center/pressure center

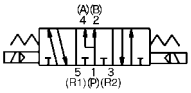
Closed center

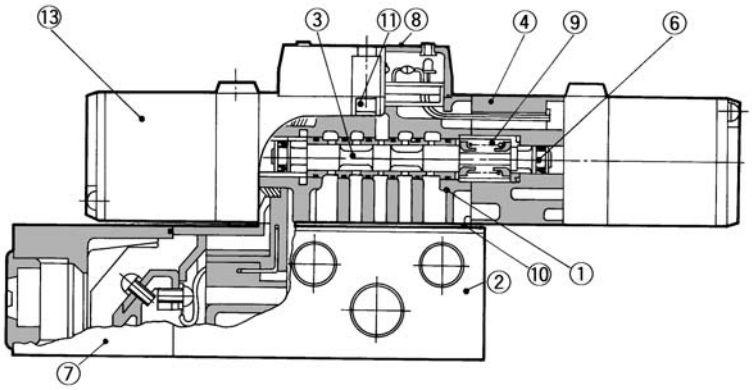


Exhaust center



Pressure





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	—
7	**Junction cover**	Resin	—
8	**Cover**	Resin	—
9	**Return spring**	Stainless steel	—
10	**Gasket**	NBR	—
11	**Hexagon socket head screw**	Steel	—
12	**Detent assembly**	—	—
13	**Pilot valve assembly**	—	—

∗ Refer to “How to Order Pilot Valve Assembly” on page 1139.

Sub-plate Assembly (Standard) Part No.

Plug-in	VFS2000-LP-$^{01}_{02}$
Non plug-in	VFS2000-LS-$^{01}_{02}$

∗ Mounting bolt and gasket are not included.

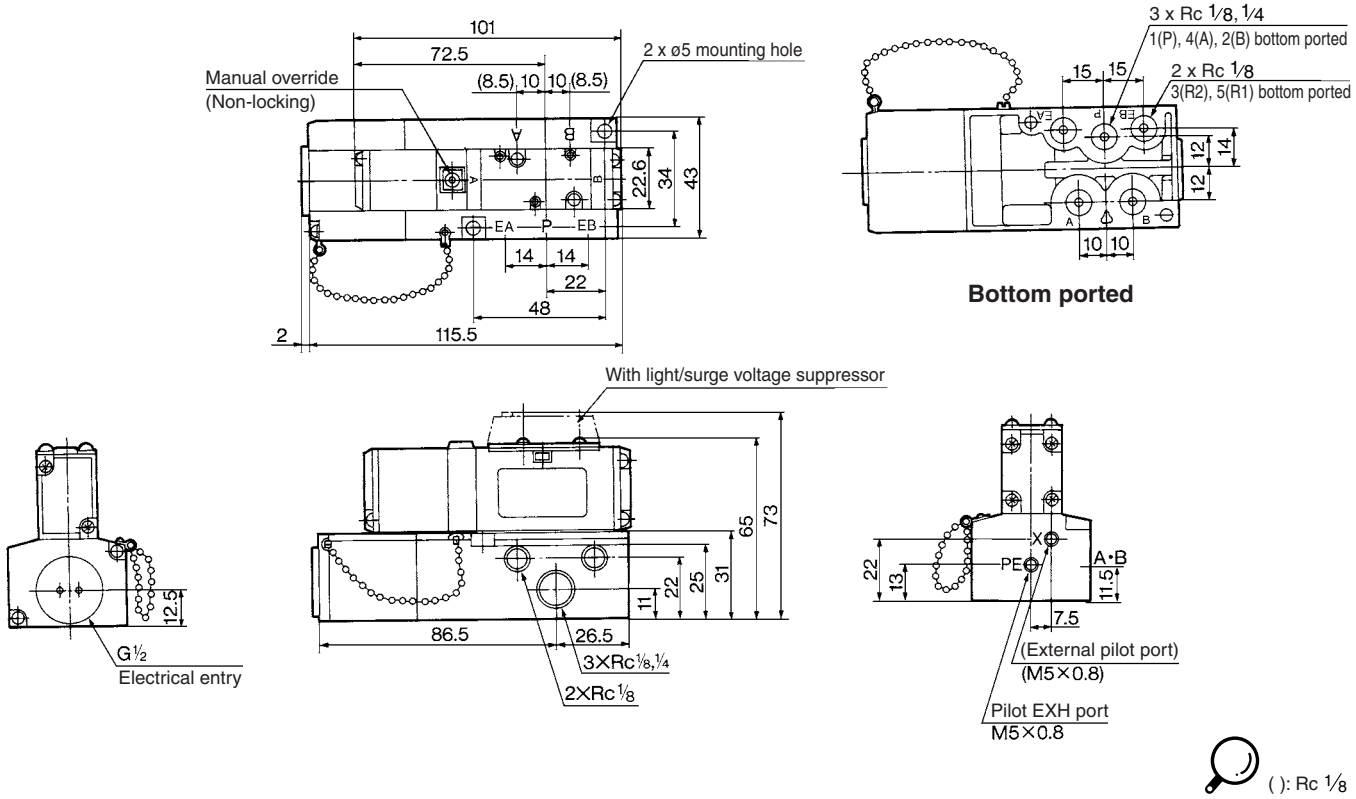
Sub-plate Assembly (For External Pilot) Part No.

Plug-in	VFS2000-LP-R$^{01}_{02}$
Non plug-in	VFS2000-LS-R$^{01}_{02}$

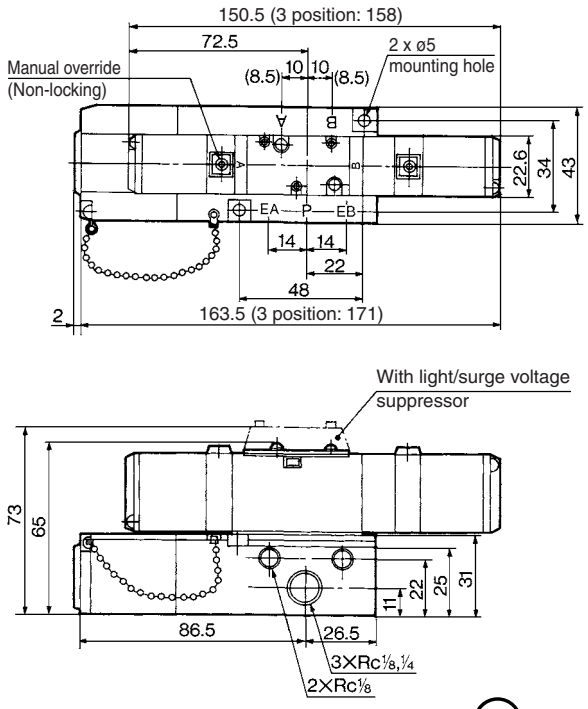
Part no. for mounting bolt and gasket
BG-VFS2000

Plug-in — 2 Position single/Double/3 Position closed center/Exhaust center/Pressure center/Double check

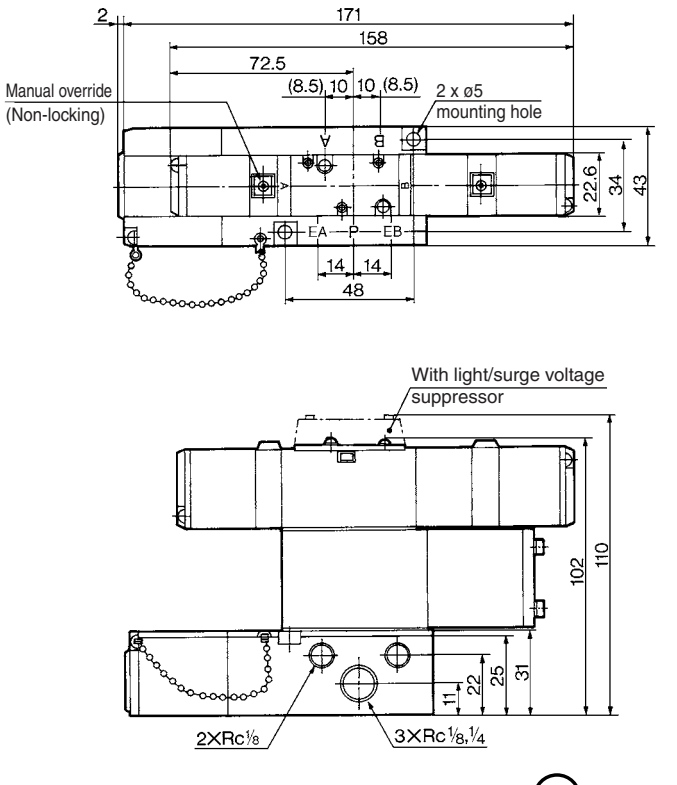
2 position single: VFS2100-□F-$^{01}_{02}$



2 position double: VFS2200-□F-$^{01}_{02}$
3 position closed center: VFS2300-□F-$^{01}_{02}$
3 position exhaust center: VFS2400-□F-$^{01}_{02}$
3 position pressure center: VFS2500-□F-$^{01}_{02}$

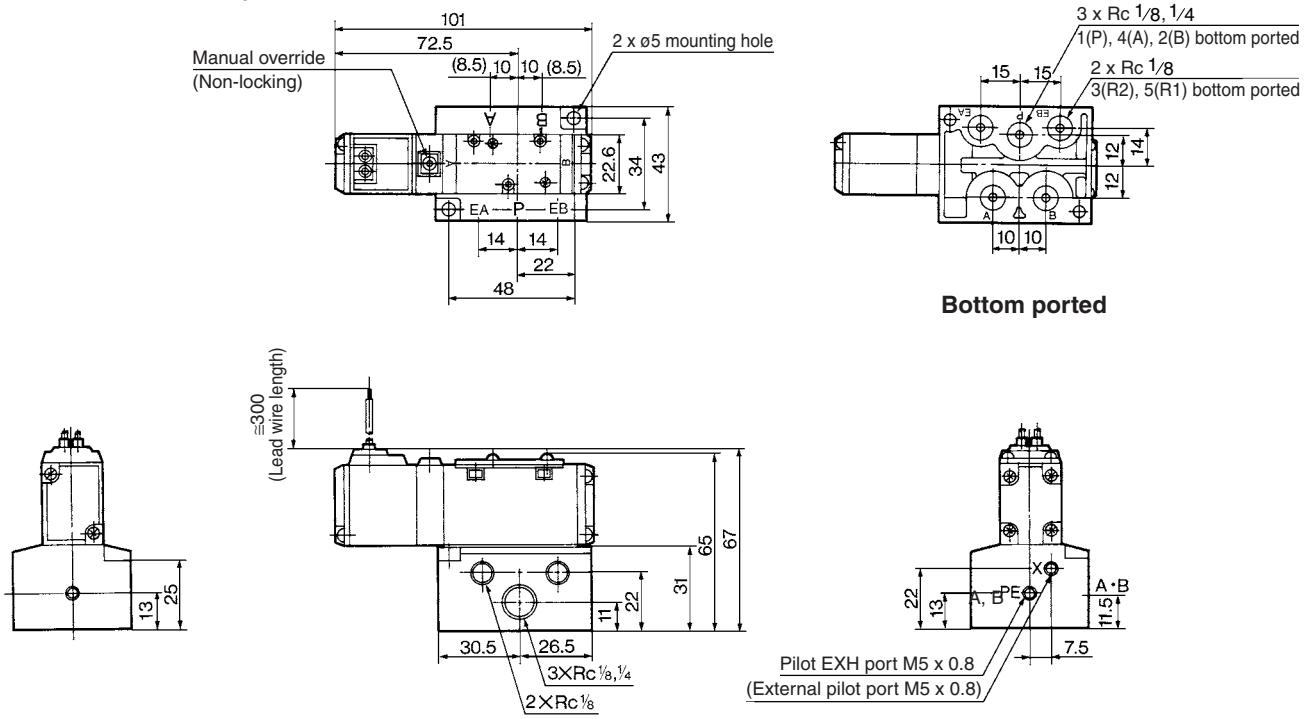


3 position double check: VFS2600-□F-$^{01}_{02}$



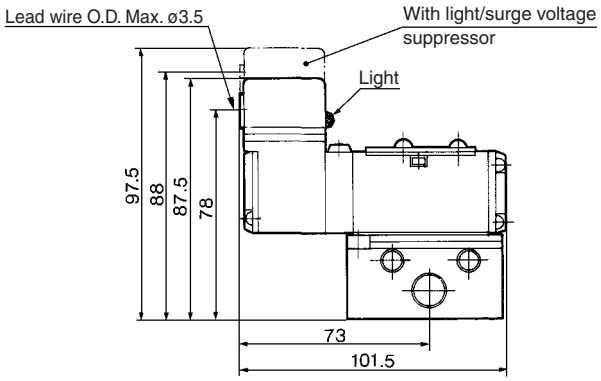
Non Plug-in — 2 Position single

Grommet: VFS2110-□G-$^{01}_{02}$

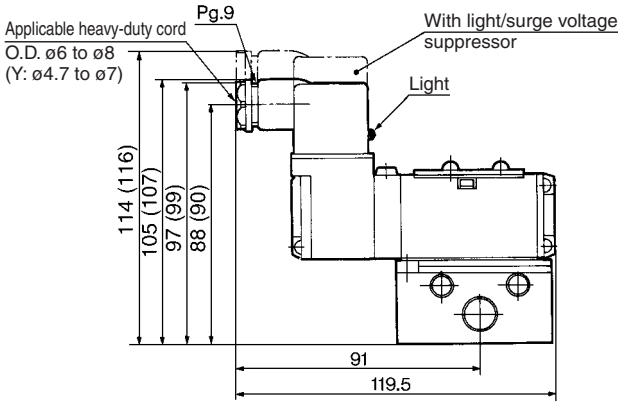


( ): Rc 1/8

Grommet terminal: VFS2110-□E-$^{01}_{02}$

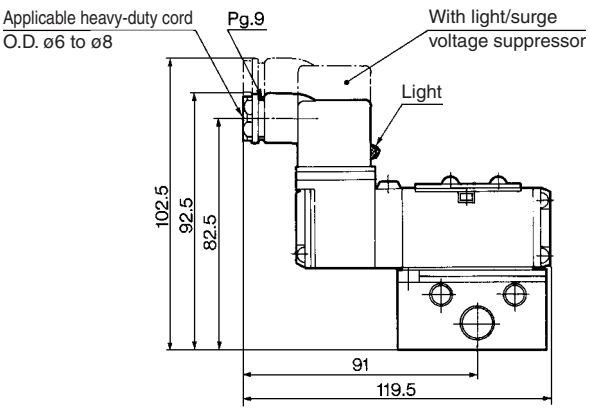


DIN terminal: VFS2110-□$^{D}_{Y}$-$^{01}_{02}$



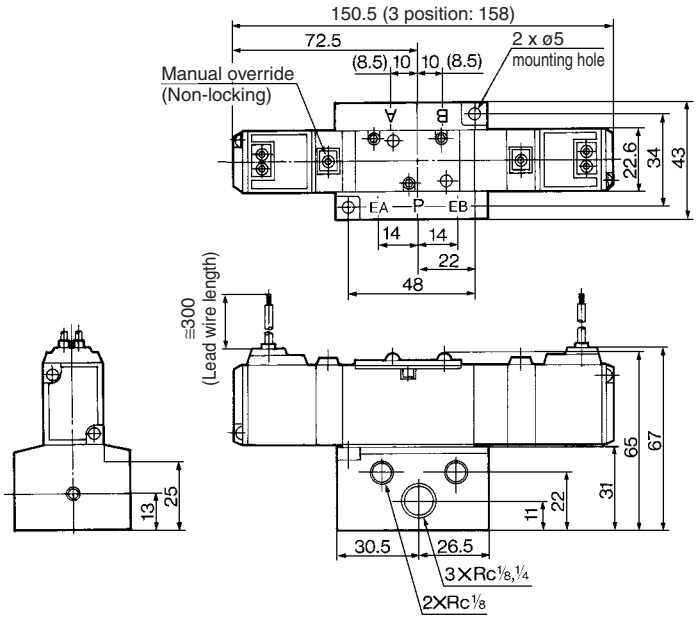
( ): Y, YZ

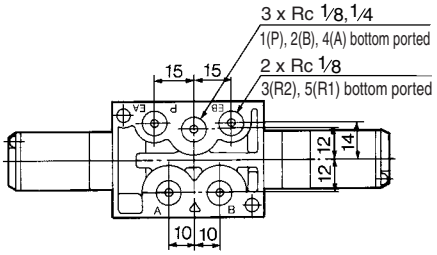
Conduit terminal: VFS2110-□T-$^{01}_{02}$



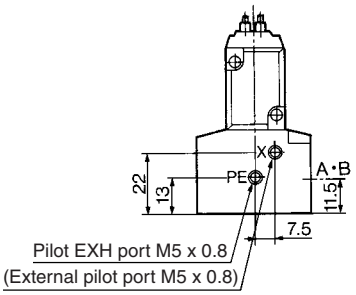
Non Plug-in — 2 Position double/3 Position closed center/Exhaust center/Pressure center

Grommet: Double VFS2210-□G-$^{01}_{02}$
Closed center VFS2310-□G-$^{01}_{02}$, Exhaust center VFS2410-□G-$^{01}_{02}$, Pressure center VFS2510-□G-$^{01}_{02}$



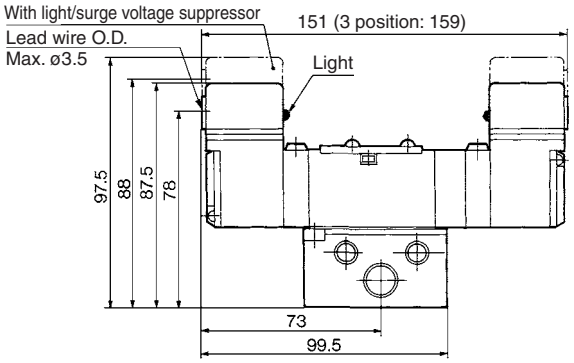


Bottom ported

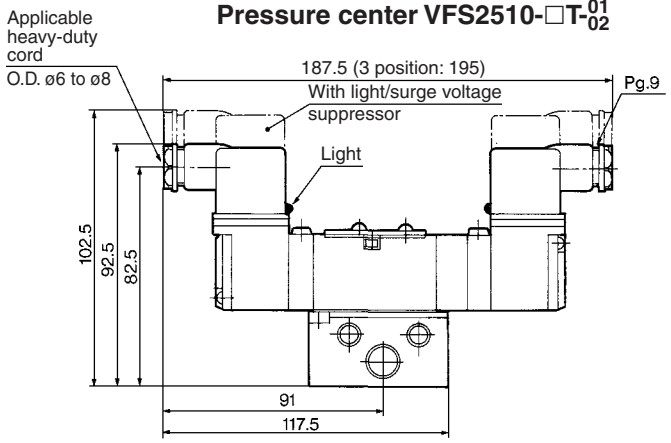


( ): Rc 1/8

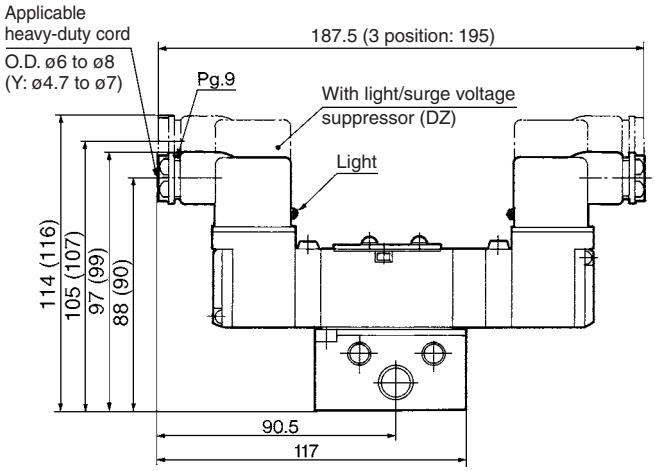
Grommet terminal: Double VFS2210-□E-$^{01}_{02}$
Closed center VFS2310-□E-$^{01}_{02}$
Exhaust center VFS2410-□E-$^{01}_{02}$
Pressure center VFS2510-□E-$^{01}_{02}$



Conduit terminal: Double VFS2210-□T-$^{01}_{02}$
Closed center VFS2310-□T-$^{01}_{02}$
Exhaust center VFS2410-□T-$^{01}_{02}$
Pressure center VFS2510-□T-$^{01}_{02}$



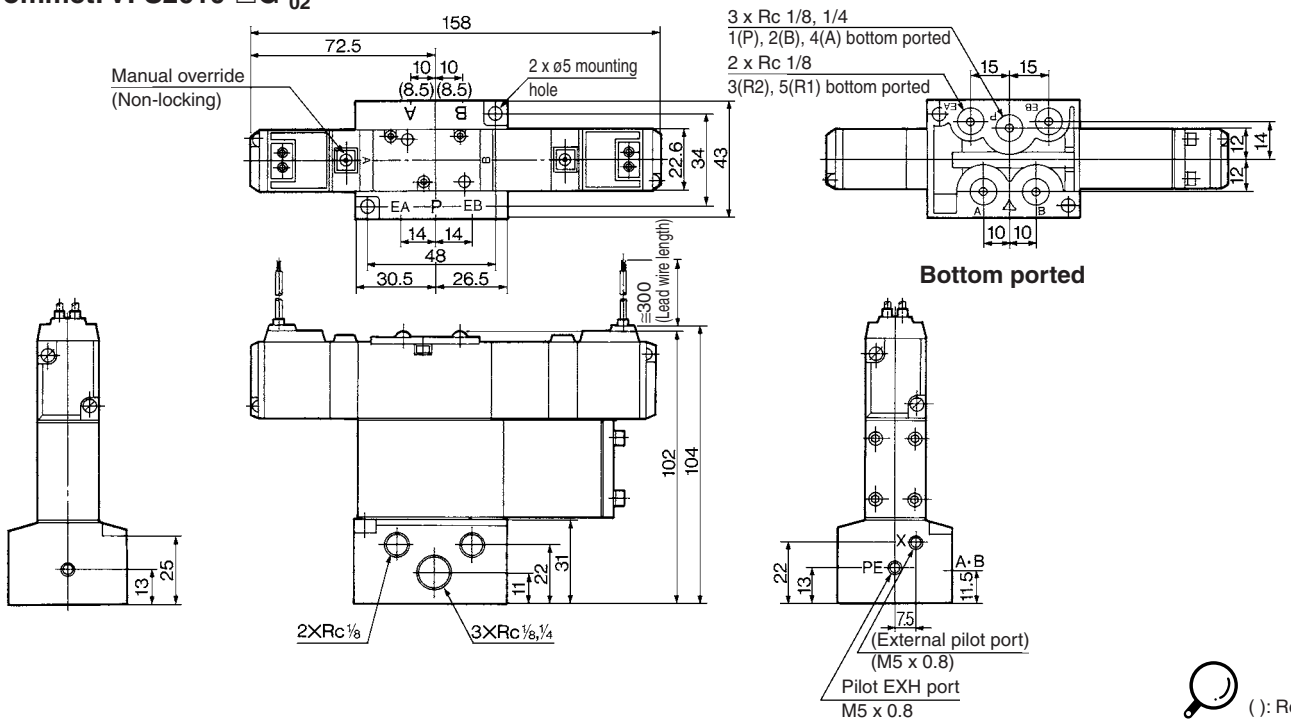
DIN terminal: Double VFS2210-□$^{D-01}_{Y-02}$
Closed center VFS2310-□$^{D-01}_{Y-02}$
Exhaust center VFS2410-□$^{D-01}_{Y-02}$
Pressure center VFS2510-□$^{D-01}_{Y-02}$



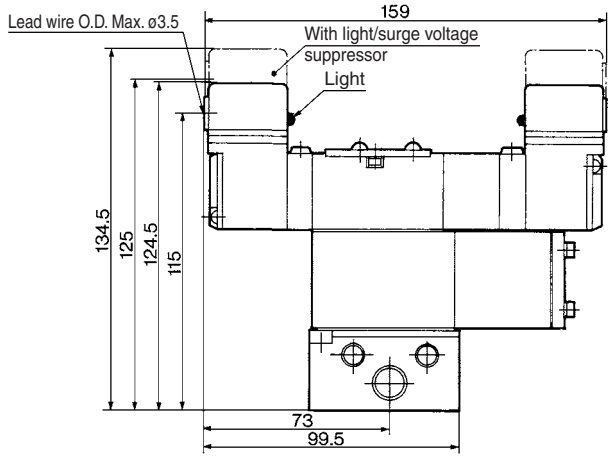
( ): Y, YZ

Non Plug-in — 3 Position double check

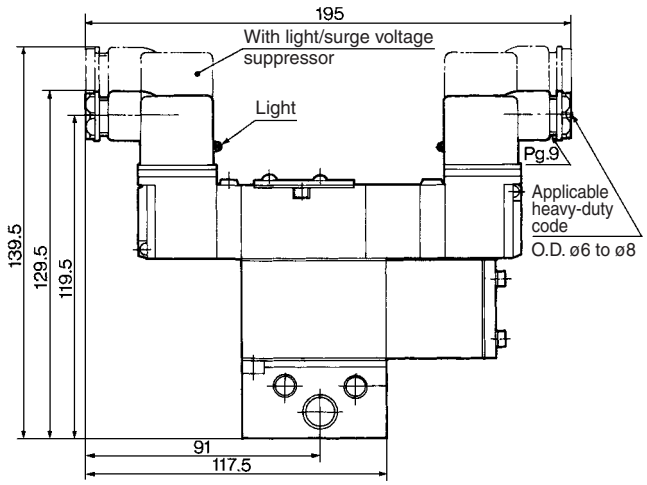
Grommet: VFS2610-□G-$^{01}_{02}$



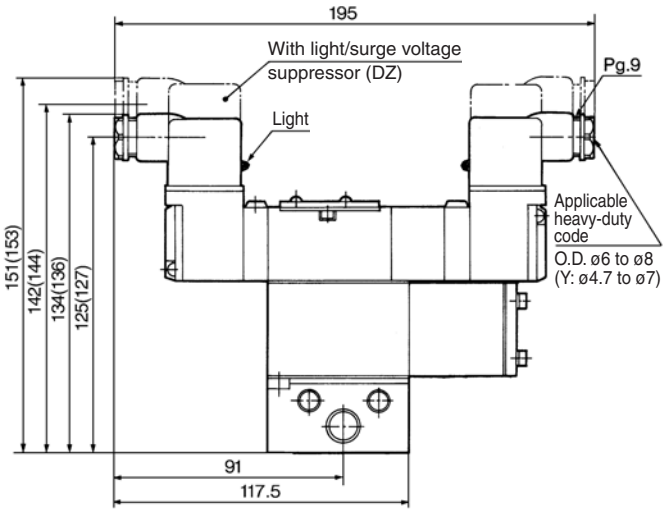
Grommet terminal: VFS2610-□E-$^{01}_{02}$



Conduit terminal: VFS2610-□T-$^{01}_{02}$



DIN terminal: VFS2610-□D-$^{01}_{02}$

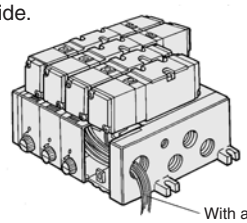


( ): Y, YZ

Manifold Specifications

Plug-in Type: With Attachment Plug Lead Wire

The insert plug is attached to the manifold block and lead wire is plugged into the valve side. Please connect with corresponding power side.



VV5FS2 - 01 - 06 1 - 01

- **Series VFS2000 Manifold**
- **Plug-in type: With attachment plug lead wire**
- **Stations**

02	2 stations
⋮	⋮
16	16 stations

- **Symbol**

Symbol	Passage P	Passage EA,EB	Porting specifications A, B
1	Common	Common	Side
2*			Bottom
3*	Common	Individual	Side
4*			Bottom
5*	Individual	Common	Side
6*			Bottom
7*	Individual	Individual	Side
8*			Bottom

∗ Option

- **Thread type**

Nil	Rc
N*	NPT
T*	NPTF
F*	G

∗ Option

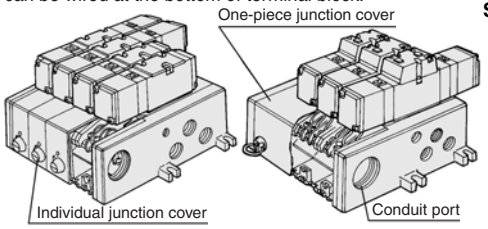
- **Port size**

Symbol	P, EA, EB	A, B
01	Rc 1/4	Rc 1/8
02		Rc 1/4
M		Mixed

∗ For bottom ported, Rc 1/8 is only available.

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.



VV5FS2 - 01T 1 - 08 1 - 02

- **Series VFS2000 Manifold**
- **Plug-in type: With terminal block**
- **Junction cover**

Nil	Separate junction cover
1	One-piece junction cover

- **Stations**

02	2 stations
⋮	⋮
16	16 stations

- **Symbol**

Symbol	Passage P	Passage EA,EB	Porting specifications A, B
1	Common	Common	Side
2*			Bottom
3*	Common	Individual	Side
4*			Bottom
5*	Individual	Common	Side
6*			Bottom
7*	Individual	Individual	Side
8*			Bottom

∗ Option

- **Thread type**

Nil	Rc
N*	NPT
T*	NPTF
F*	G

∗ Option

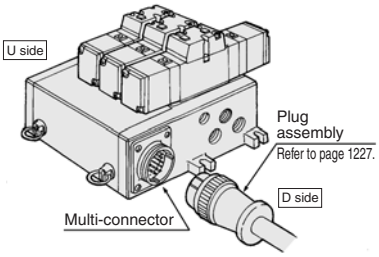
- **Port size**

Symbol	P, EA, EB	A, B
01	Rc 1/4	Rc 1/8
02		Rc 1/4
M		Mixed

∗ For bottom ported, Rc 1/8 is only available.

Plug-in Type: With Multi-connector (Wiring specifications: Refer to page 1227.)

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



VV5FS2 - 01C D 1 - 05 2 - 01

- **Series VFS2000 Manifold**
- **Plug-in type: With multi-connector**
- **Connector mounting direction**

D	D side mounting
U	U side mounting

- **Junction cover**

1	One-piece junction cover

- **Stations**

02	2 stations
⋮	⋮
08	8 stations

∗ Max. 8 stations

- **Symbol**

Symbol	Passage P	Passage EA,EB	Porting specifications A, B
1	Common	Common	Side
2*			Bottom
3*	Common	Individual	Side
4*			Bottom
5*	Individual	Common	Side
6*			Bottom
7*	Individual	Individual	Side
8*			Bottom

∗ Option

- **Thread type**

Nil	Rc
N*	NPT
T*	NPTF
F*	G

∗ Option

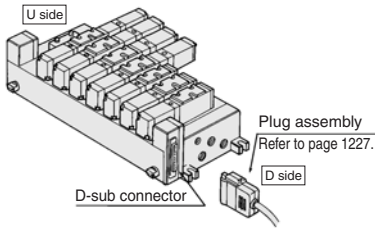
- **Port size**

Symbol	P, EA, EB	A, B
01	Rc 1/4	Rc 1/8
02		Rc 1/4
M		Mixed

∗ For bottom ported, Rc 1/8 is only available.

Plug-in Type: With D-sub Connector (Wiring specifications: Refer to page 1227.)

- Wide range of interchangeability (D-sub connector (25P) conforming to MIL standard)
- Quick wiring permits easier installation.



VV5FS2 - 01F U 1 - 06 1 - 01

- **Series VFS2000 Manifold**
- **Plug-in type: With D-sub connector**
- **Connector mounting direction**

D	D side mounting
U	U side mounting

- **Junction cover**

1	One-piece junction cover

- **Stations**

02	2 stations
⋮	⋮
08	8 stations

∗ Max. 8 stations

- **Symbol**

Symbol	Passage P	Passage EA,EB	Porting specifications A, B
1	Common	Common	Side
2*			Bottom
3*	Common	Individual	Side
4*			Bottom
5*	Individual	Common	Side
6*			Bottom
7*	Individual	Individual	Side
8*			Bottom

∗ Option

- **Thread type**

Nil	Rc
N*	NPT
T*	NPTF
F*	G

∗ Option

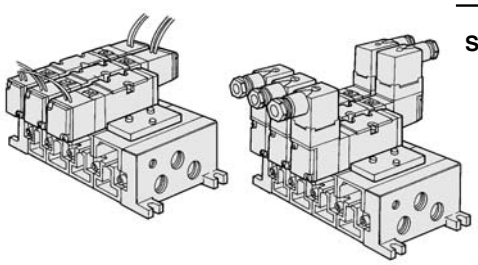
- **Port size**

Symbol	P, EA, EB	A, B
01	Rc 1/4	Rc 1/8
02		Rc 1/4
M		Mixed

∗ For bottom ported, Rc 1/8 is only available.

Non Plug-in Type: Grommet, Grommet Terminal, Conduit Terminal, DIN Terminal

- Wiring for every valve



VV5FS2 - 10 - 05 2 - 01

- **Series VFS2000 Manifold**
- **Non plug-in type**
- **Stations**

02	2 stations
⋮	⋮
16	16 stations

- **Symbol**

Symbol	Passage P	Passage EA,EB	Porting specifications A, B
1	Common	Common	Side
2*			Bottom
3*	Common	Individual	Side
4*			Bottom
5*	Individual	Common	Side
6*			Bottom
7*	Individual	Individual	Side
8*			Bottom

∗ Option

- **Thread type**

Nil	Rc
N*	NPT
T*	NPTF
F*	G

∗ Option

- **Port size**

Symbol	P, EA, EB	A, B
01	Rc 1/4	Rc 1/8
02		Rc 1/4
M		Mixed

∗ For bottom ported, Rc 1/8 is only available.

Note) The individual specification of the P port at the composition symbol 3 to 8 or the EA, EB, ports should be taken as individual port using a block plate. Therefore, if an individual port is using a single SUP spacer of option or a single EXH spacer, the composition symbol mark is "1".

How to Order Manifold Assembly

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

<Example>

- Plug-in type with terminal block
  (6 stations, one-piece style junction cover)
  (Manifold base) VV5FS2-01T1-061-02····1
  (2 position single) VFS2100-5FZ·····3
  (2 position double) VFS2200-5FZ·····2
  (Blanking plate) VVFS2000-10A····· 1
- Non plug-in type (6 stations)
  (Manifold base) VV5FS2-10-061-01····· 1
  (2 position single) VFS2110-5D····· 3
  (3 position exhaust center) VFS2410-5D····· 1
  (Individual EXH spacer) VVFS2000-R-01-2···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 **VV5FS2-01□**	• With attachment plug lead wire • With terminal block • With multi-connector • With D-sub connector	Side/Bottom	1/4	1/8, 1/4	2 to 15* stations	VFS2□00-□F
Non plug-in type **VV5FS2-10**	• Grommet • Grommet terminal • Conduit terminal • DIN terminal					VFS2□10-□G VFS2□10-□E VFS2□10-□T VFS2□10-□D

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

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

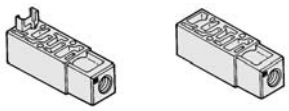
Model	Passage/Stations		Station 1	Station 5	Station 10
VVFS2	1→4/2 (P→A/B)	C [dm³/(s·bar)]	2.4	2.4	2.4
		b	0.14	0.14	0.14
		Cv	0.50	0.50	0.50
	4/2→5/3 (A/B→R1/R2)	C [dm³/(s·bar)]	2.5	2.5	2.5
		b	0.18	0.18	0.18
		Cv	0.60	0.60	0.60

* Port size Rc 1/4

Manifold Option Parts Assembly

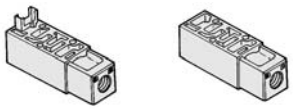
Individual SUP spacer
An individual SUP spacer set on manifold block can form SUP port for every valve.

Body type		Plug-in type	Non plug-in type
Part no.	Rc 1/8	VVFS2000-P-01-1	VVFS2000-P-01-2
	Rc 1/4	VVFS2000-P-02-1	VVFS2000-P-02-2



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.	Rc 1/8	VVFS2000-R-01-1	VVFS2000-R-01-2
	Rc 1/4	VVFS2000-R-02-1	VVFS2000-R-02-2



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

Body type	Plug-in type	Non plug-in type
Part no.	AXT625-12A	

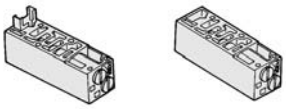
EXH block plate
When valve exhaust affects the other stations on the circuit or when the reverse pressure valve is used to standard manifold valve, insert EXH block plate in between stations to separate valve exhaust.

Body type	Plug-in type	Non plug-in type
Part no.	AXT625-12A	



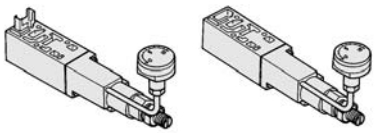
Throttle valve spacer
Needle valve set on the manifold block can control cylinder speed by throttling exhaust.

Body type	Plug-in type	Non plug-in type
Part no.	VVFS2000-20A-1	VVFS2000-20A-2



Interface regulator (P port regulation)
Interface regulator set on manifold block can regulate the pressure to each valve. Refer to "Flow Characteristics" on page 1225.

Body type	Plug-in type	Non plug-in type
P port regulation	ARBF2000-00-P-1	ARBF2000-00-P-2



Air shutoff valve spacer
When stopping supply air and releasing residual pressure after completion of work, actuators may move from original position. Air shut off valve spacer makes it possible to stop actuators in original position for extended periods.

Body type	Plug-in type	Non plug-in type
Part no.	VVFS2000-21A-1	VVFS2000-21A-2

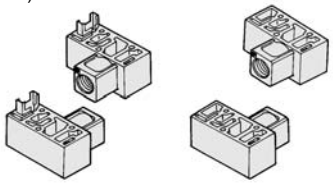


∗ Not mountable for standard type sub-plate.

Air release valve spacer
The concurrent use of air release valve spacer with VFS21□0 (single) can release air.

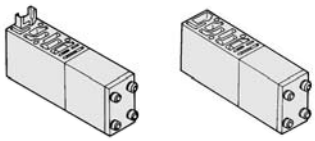
Body type	Plug-in type	Non plug-in type
Part no.	VVFS2000-24A-1 L/R	VVFS2000-24A-2 L/R

Note) L: U side mount R: D side mount



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.	VVFS2000-22A-1	VVFS2000-22A-2



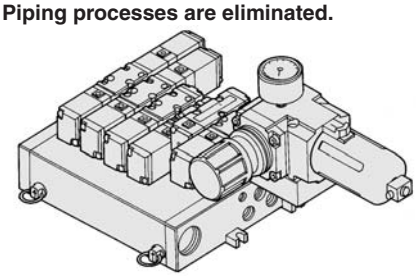
Blanking plate
It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.

Body type	Plug-in type	Non plug-in type
Part no.	VVFS2000-10A	

Accessory
One pair of gasket and mounting thread is attached to every option parts assembly.

Manifold Option

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 1153.

Dripproof Manifold
Plug-in type
- **Equivalent to IP65**

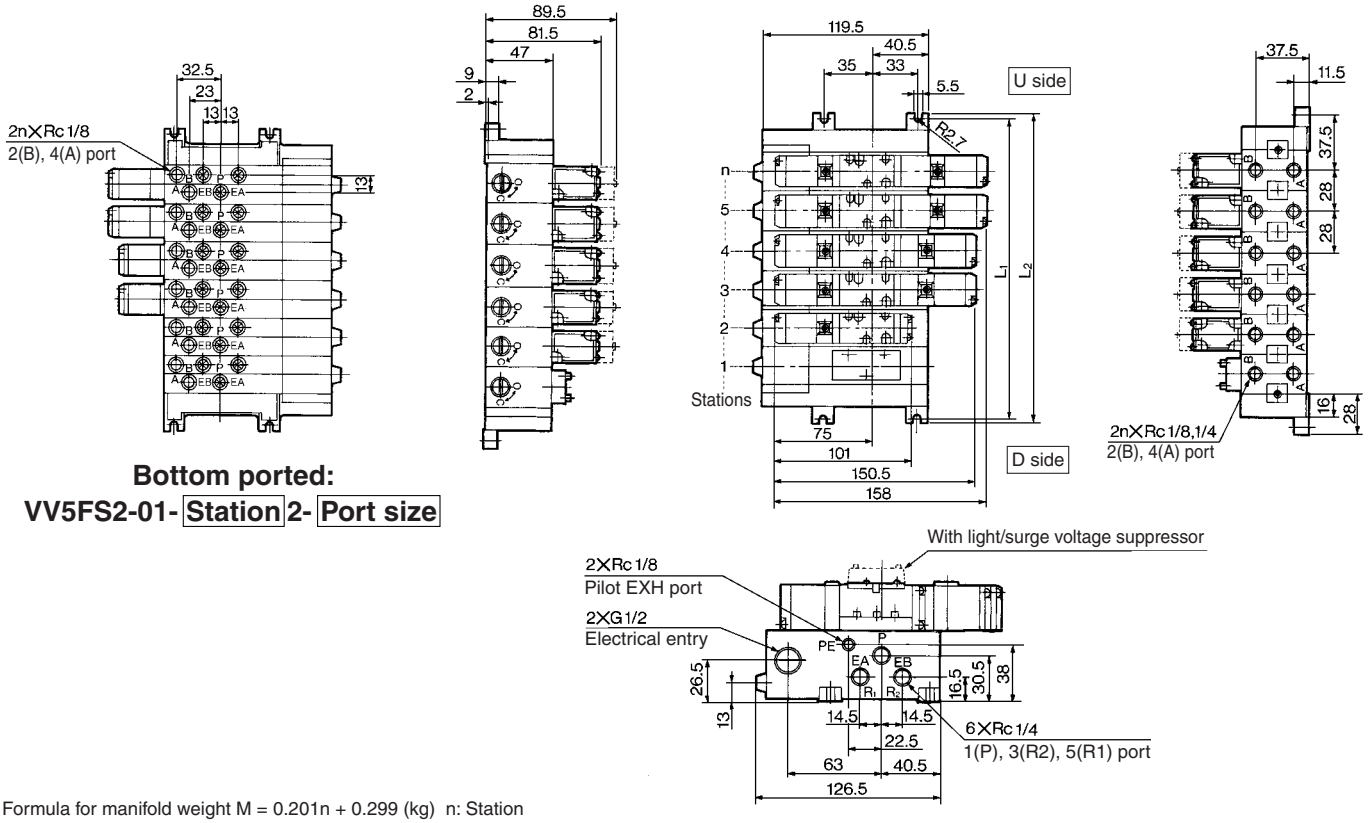
For details, refer to page 1155.

Made to Order
Manifold with serial transmission kit
Plug-in type
- **Solenoid valve wiring process reduced considerably.**

For details, refer to page 1158.

Manifold — Plug-in type, Non plug-in type

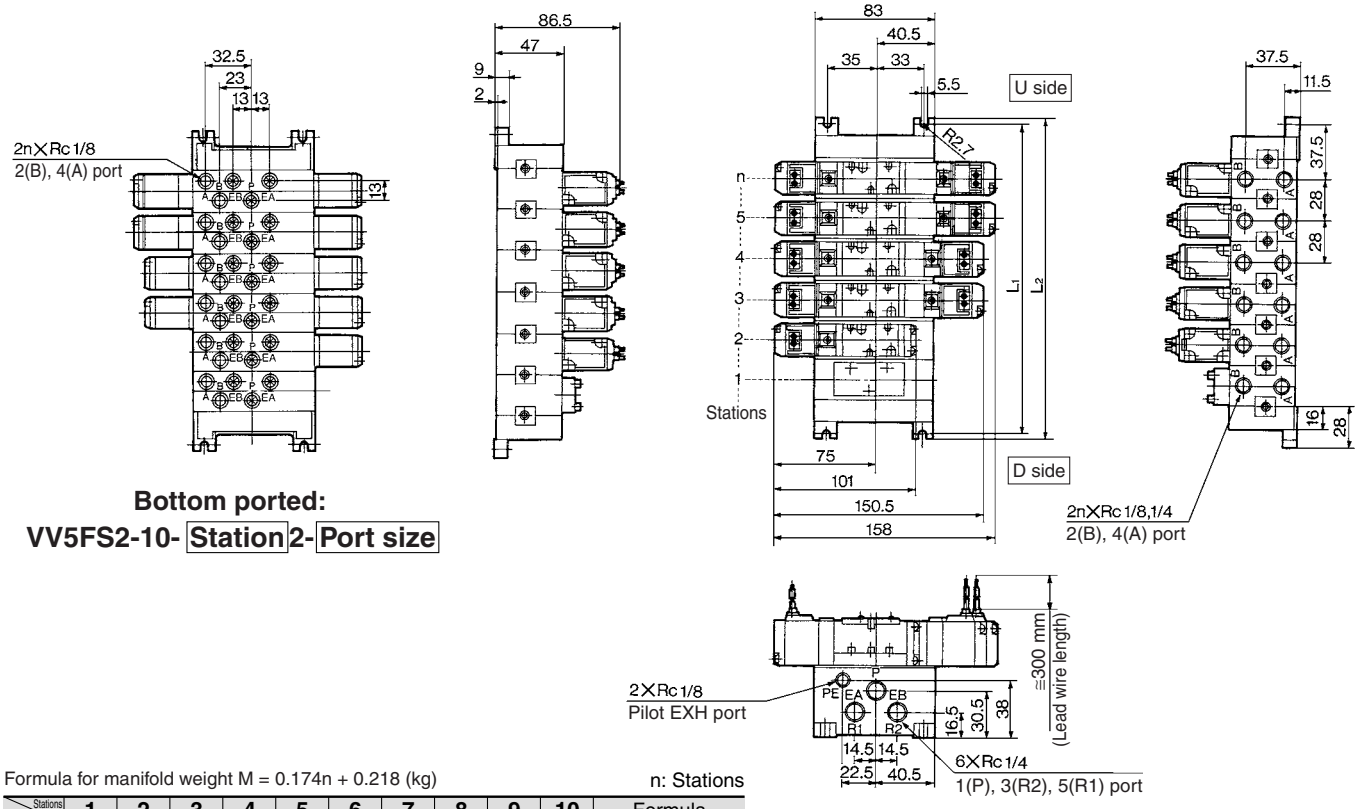
Plug-in type (Insert plug with lead wire): VV5FS2-01-Station 1-Port size



Bottom ported:
VV5FS2-01-Station 2-Port size

Formula for manifold weight M = 0.201n + 0.299 (kg) n: Station

Non plug-in type: VV5FS2-10-Station 1-Port size



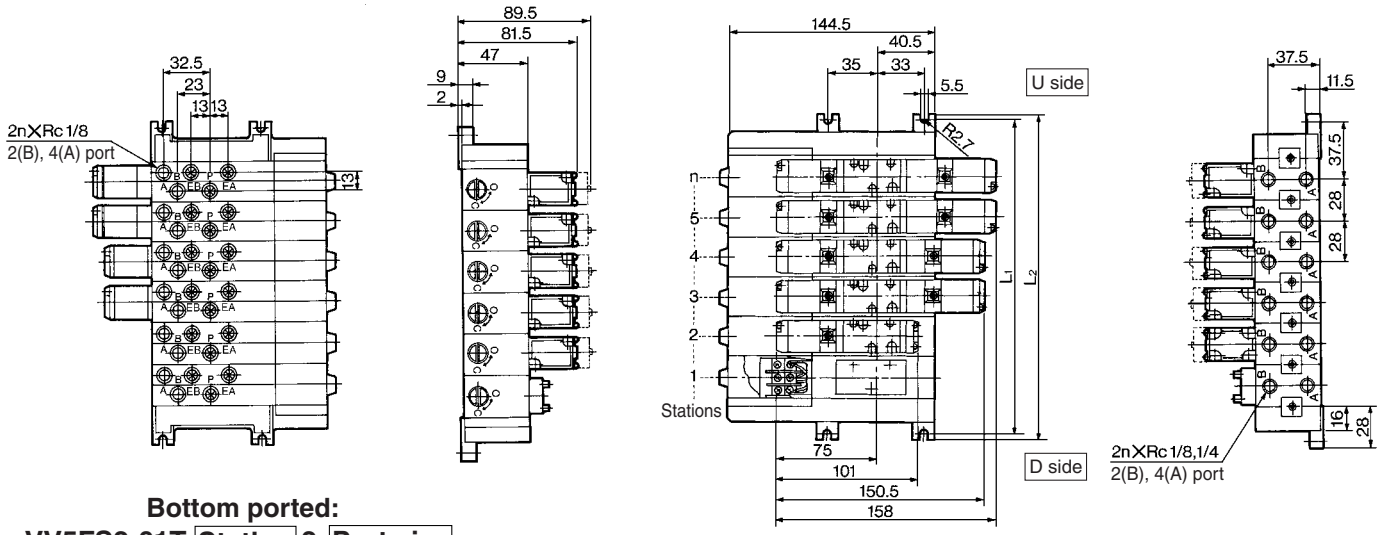
Bottom ported:
VV5FS2-10-Station 2-Port size

Formula for manifold weight M = 0.174n + 0.218 (kg) n: Stations

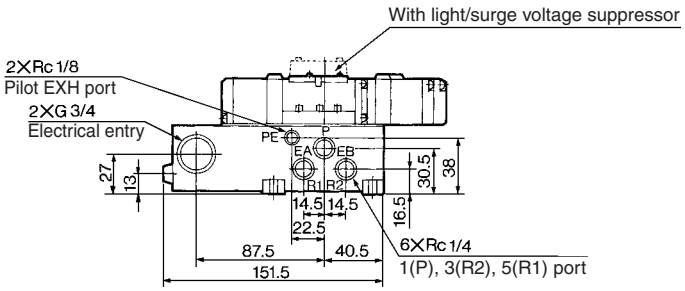
L / Stations	1	2	3	4	5	6	7	8	9	10	Formula
L_1	75	103	131	159	187	215	243	271	299	327	$L_1 = 28 \times n + 47$
L_2	84	112	140	168	196	224	252	280	308	336	$L_2 = 28 \times n + 56$

Manifold — Plug-in type: Individual/One-piece junction cover

Plug-in type with terminal block (Individual junction covers): VV5FS2-01T- Station 1- Port size

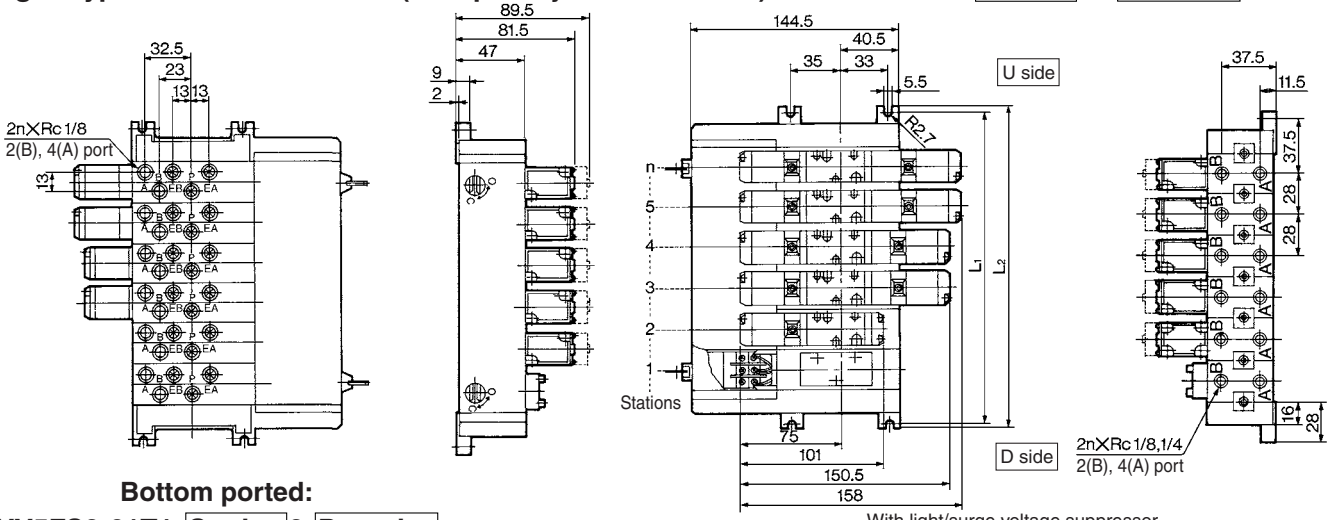


Bottom ported:
VV5FS2-01T- Station 2- Port size

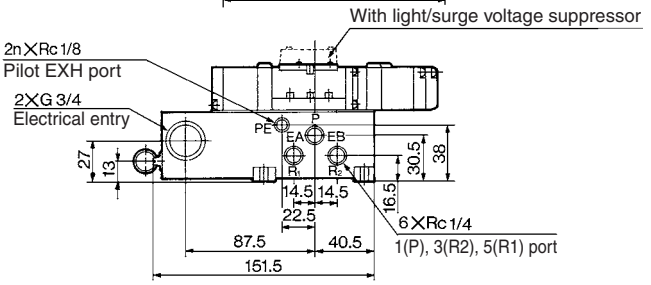


Formula for manifold weight M = 0.215n + 0.35 (kg) n: Station

Plug-in type with terminal block (One-piece junction covers): VV5FS2-01T1- Station 1- Port size



Bottom ported:
VV5FS2-01T1- Station 2- Port size

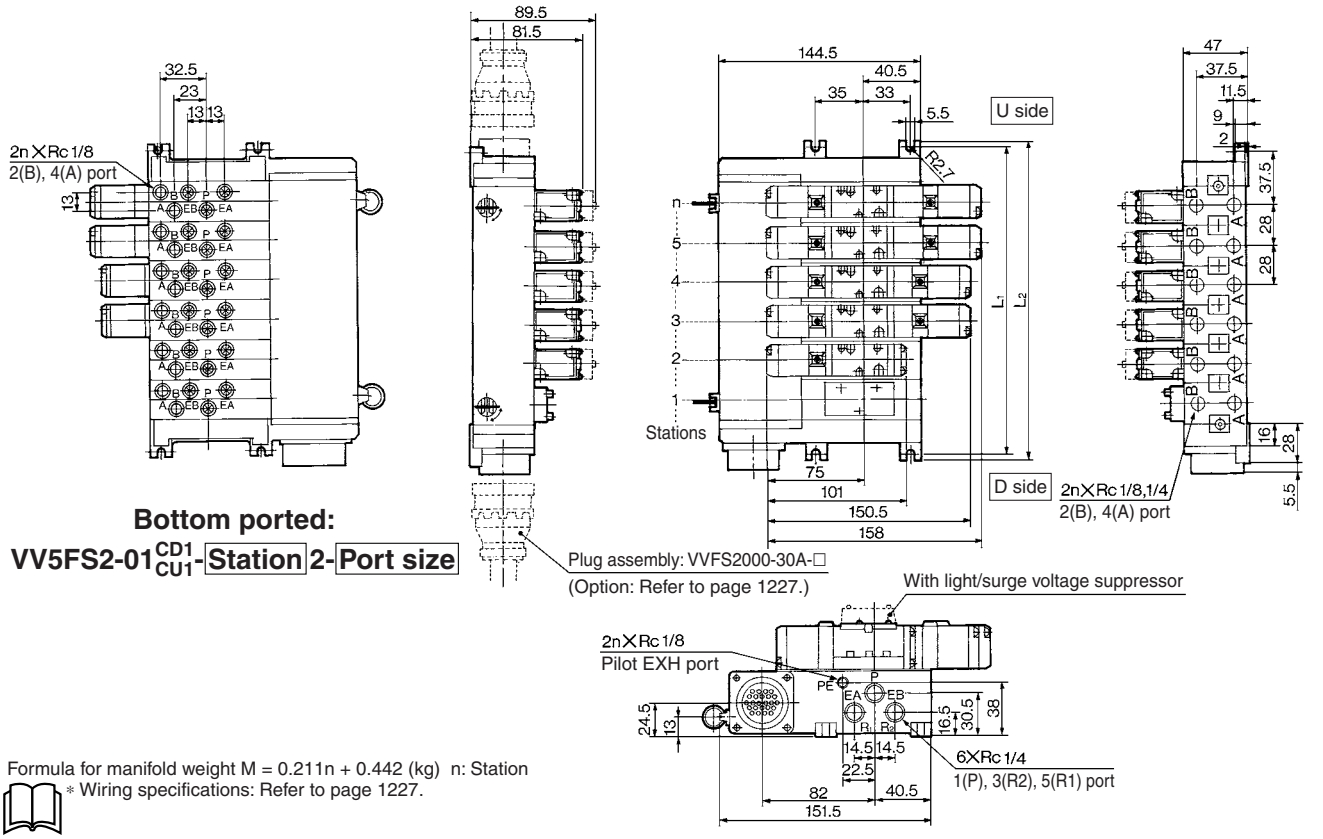


Formula for manifold weight M = 0.236n + 0.354 (kg) n: Station

L / Stations	1	2	3	4	5	6	7	8	9	10	Formula
L_1	75	103	131	159	187	215	243	271	299	327	$L_1 = 28 \times n + 47$
L_2	84	112	140	168	196	224	252	280	308	336	$L_2 = 28 \times n + 56$

Manifold — Plug-in with multi-connector/with D-sub connector

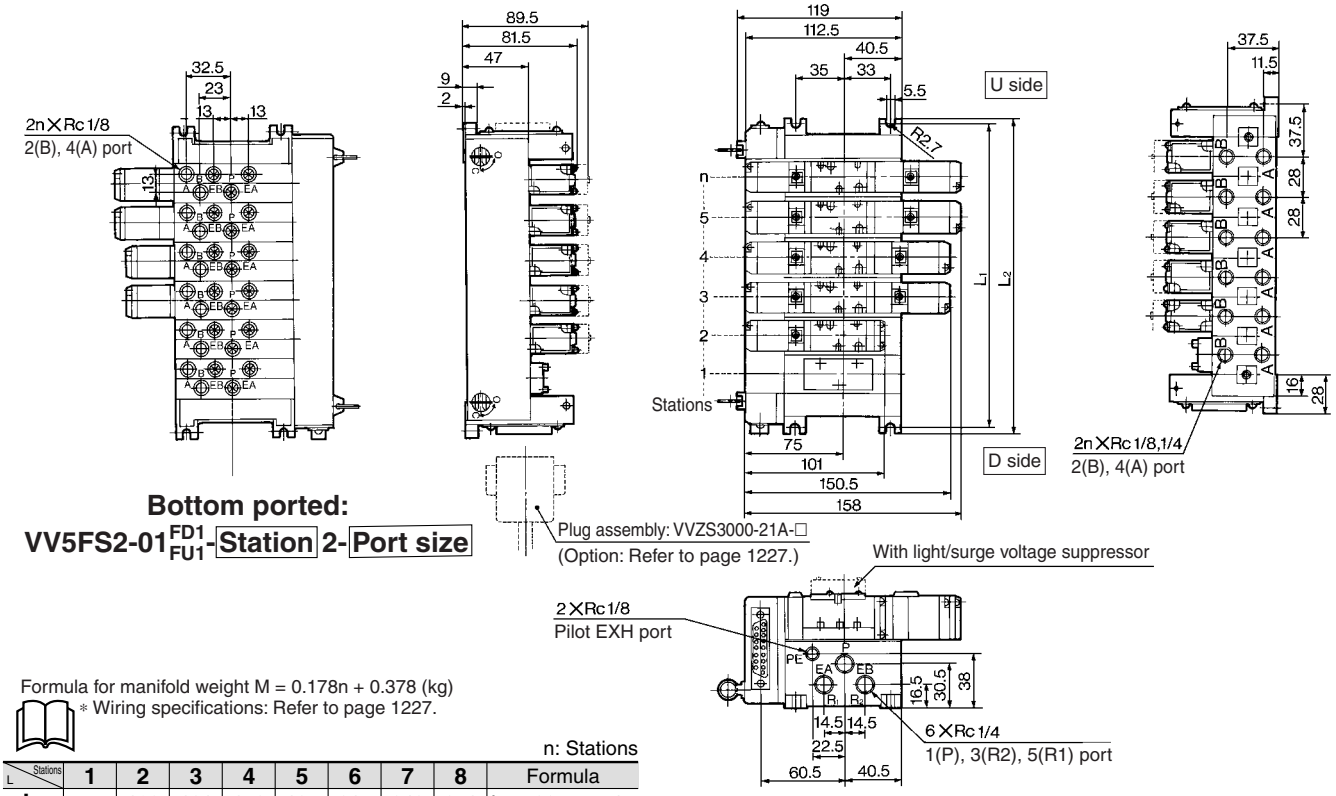
Plug-in with multi-connector: VV5FS2-01CD1-Station 1-Port size, VV5FS2-01CU1-Station 1-Port size



Bottom ported:
VV5FS2-01$^{CD1}_{CU1}$-Station 2-Port size

Formula for manifold weight M = 0.211n + 0.442 (kg) n: Station
∗ Wiring specifications: Refer to page 1227.

Plug-in type with D-sub connector: VV5FS2-01FD1-Station 1-Port size, VV5FS2-01FU1-Station 1-Port size



Bottom ported:
VV5FS2-01$^{FD1}_{FU1}$-Station 2-Port size

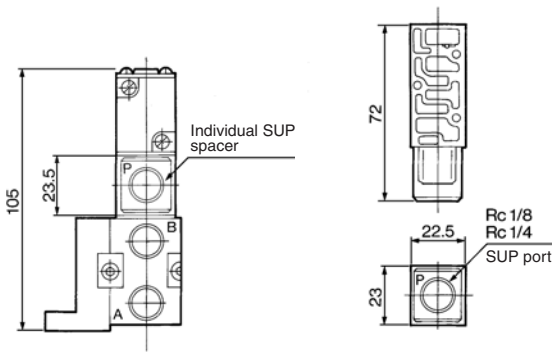
Formula for manifold weight M = 0.178n + 0.378 (kg)
∗ Wiring specifications: Refer to page 1227.

n: Stations

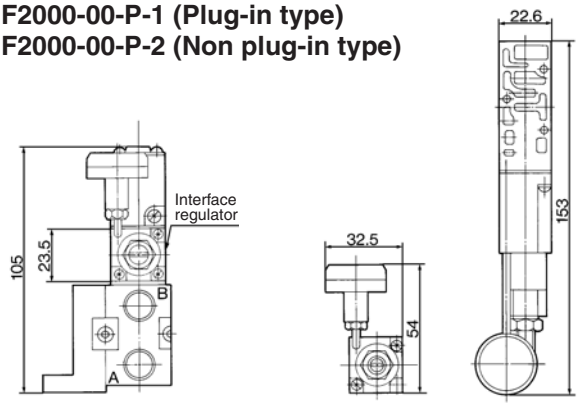
L \ Stations	1	2	3	4	5	6	7	8	Formula
L_1	75	103	131	159	187	215	243	271	L_1 = 28 x n + 47
L_2	84	112	140	168	196	224	252	280	L_2 = 28 x n + 56

Manifold Option Parts — Plug-in type, Non plug-in type

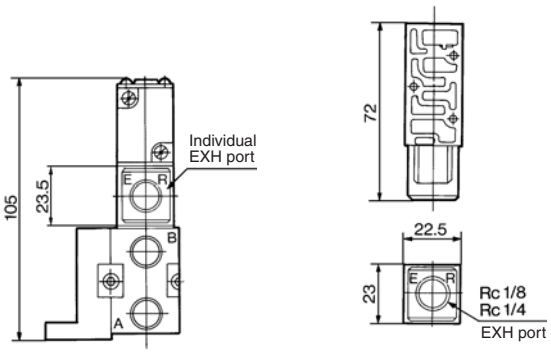
Individual SUP spacer:
VVFS2000-P-$^{01}_{02}$-1 (Plug-in type)
VVFS2000-P-$^{01}_{02}$-2 (Non plug-in type)



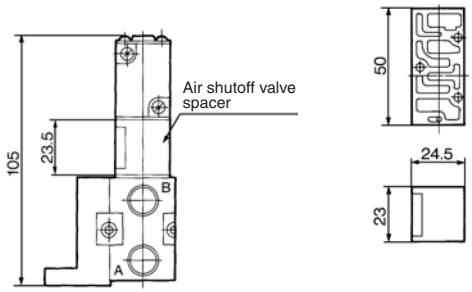
Interface regulator:
ARBF2000-00-P-1 (Plug-in type)
ARBF2000-00-P-2 (Non plug-in type)



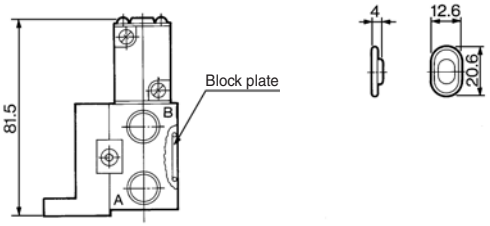
Individual EXH spacer:
VVFS2000-R-$^{01}_{02}$-1 (Plug-in type)
VVFS2000-R-$^{01}_{02}$-2 (Non plug-in type)



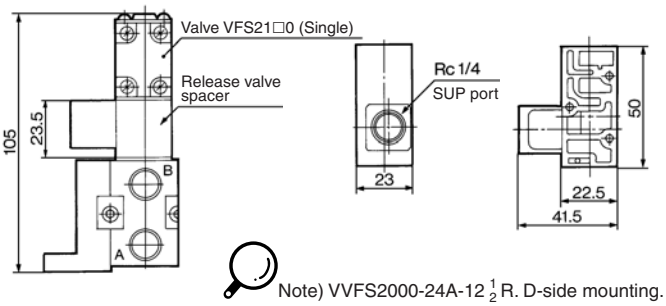
Air shutoff valve spacer:
VVFS2000-21A-1 (Plug-in type)
VVFS2000-21A-2 (Non plug-in type)



SUP block plate: AXT625-12A
EXH block plate: AXT625-12A

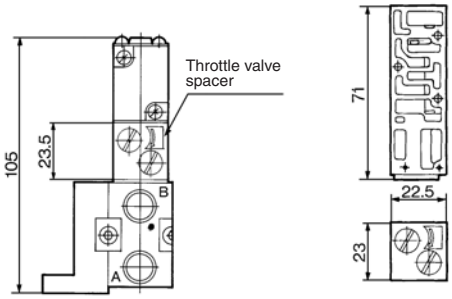


Release valve spacer:
VVFS2000-24A-1$^{R}_{L}$ (Plug-in type)
VVFS2000-24A-2$^{R}_{L}$ (Non plug-in type)

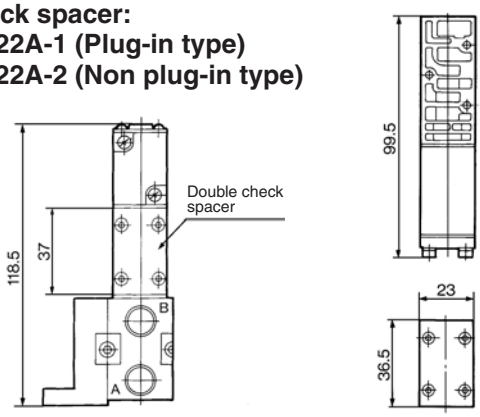


Note) VVFS2000-24A-12 $\frac{1}{2}$ R. D-side mounting.

Throttle valve spacer:
VVFS2000-20A-1 (Plug-in type)
VVFS2000-20A-2 (Non plug-in type)



Double check spacer:
VVFS2000-22A-1 (Plug-in type)
VVFS2000-22A-2 (Non plug-in type)

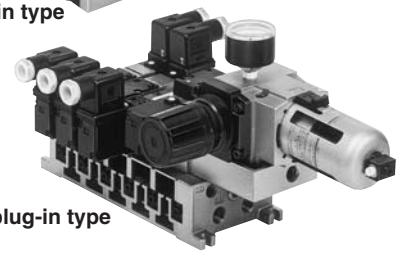


Manifold with Control Unit

- **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.**



Plug-in type



Non plug-in type

⚠Caution

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

Manifold Specifications

Manifold	Plug-in type: VV5FS2-01□	Non plug-in type: VV5FS2-10
Wiring	Plug-in with attachment plug lead wire With terminal block With multi-connector With D-sub connector	Grommet Grommet terminal Conduit terminal DIN terminal
Applicable valve model	VFS2□00-□F	VFS2□10-□G, VFS2□10-□E VFS2□10-□T, VFS2□10-□D
Porting specifications Rc	Common SUP, Common EXH	
	2(B), 4(A) port: Side: Rc 1/8, 1/4, Bottom: Rc 1/8 (Option)	
	1 (P), 3(R2), 5(R1) port: Side: Rc 1/4, 1/8, Bottom: Rc 1/8 (Option)	
Stations	2 to 15 stations*	

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

Control Unit Specifications

Air filter (With auto-drain/With manual drain)	
Filtration degree	5 μm
Regulator	
Set pressure (Outlet pressure)	0.05 to 0.85 MPa
Pressure switch (1)	
Set pressure range: OFF	0.1 to 0.6 MPa
Differential	0.08 MPa or less
Contact	1a
Indicator light	LED (RED)
Max. switch capacity	2 VA AC, 2 W DC
Max. operating current	24 VAC/DC or less: 50 mA 100 VAC/DC: 20 mA
Air release valve (Single only)	
Operating pressure range	0.1 to 1.0 MPa

Control Unit/Option

Air release valve spacer (2)	<Plug-in type> VVFS2000-24A-1R (D side mounting) VVFS2000-24A-1L (U side mounting)	
	<Non plug-in type> VVFS2000-24A-2R (D side mounting) VVFS2000-24A-2L (U side mounting)	
Pressure switch (3)	IS1000P-2-1	
Blanking plate	With control unit/Filter regulator	MP2-2
	Pressure switch	MP3-2
	Release valve	AXT625-18A
Filter element	111511-5B	

Note 1) Voltage: 24 VDC to 100 VAC
Inner voltage drop: 4 V
Note 2) Refer to manifold option parts on page 1148.
Note 3) The non plug-in type cannot be mounted afterwards.

How to Order

Note) The manifold of plug-in type with attachment plug lead wire is applied to individual type only. Non plug-in type has no junction cover.

VV5FS2 - 10 □ □ - 08 1 - 01 □ - AP □

Series VFS2000 Manifold

Base type/Electrical entry

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

Connector mounting direction

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

Junction cover

Nil	Stacking type
1	Integrated type

Note) Stacking type:
Base type 01, 01T
Integrated type:
Base type 01T, 01C, 01F

Stations

02	2 stations
⋮	⋮
15*	15 stations

* Base type
01, 01T, 10 — 2 to 15 stations
01C, 01F — 2 to 8 stations

Symbol

Symbol	Passage P	Passage EA, EB	Porting specifications B, A
1	Common	Common	Side
2*			Bottom
3*	Common	Individual	Side
4*			Bottom
5*	Individual	Common	Side
6*			Bottom
7*	Individual	Individual	Side
8*			Bottom

* Option
The individual specification of the P port in the composition symbol marks 3 to 8 or EA, EB ports should be taken as individual port using a block plate. Therefore, if an individual port is taken using a single SUP spacer of option or a single EXH spacer, the composition symbol mark is "1".

Thread type

Nil	Rc
N*	NPT
T*	NPTF
F*	G

* Option

Port size

Symbol	P, EA, EB	B, A
01	Rc 1/4	Rc 1/8
02		Rc 1/4
M		Mixed

Air release valve coil rating

Nil	None (F, G type only)
1	100 VAC, 50/60 Hz
5	24 VDC
9	Other

Control unit type

Control equipment \ Symbol	Nil	A	AP	M	MP	F	G	C	E
Air filter with auto-drain		●	●			●			
Air filter with manual drain				●	●		●		
Regulator		●	●	●	●	●	●		
Air release valve		●	●	●	●			●	●
Pressure switch			●		●				
Blanking plate (Air release valve)						●	●		
Blanking plate (Filter, Regulator)								●	
Blanking plate (Pressure switch)		●		●		●	●	●	
Number of manifold blocks required for mounting (stations)		2	2	2	2	2	2	2	1

How to Order Manifold Assembly [Example]

Add the valve and option part numbers in order starting from the first station on the D side.

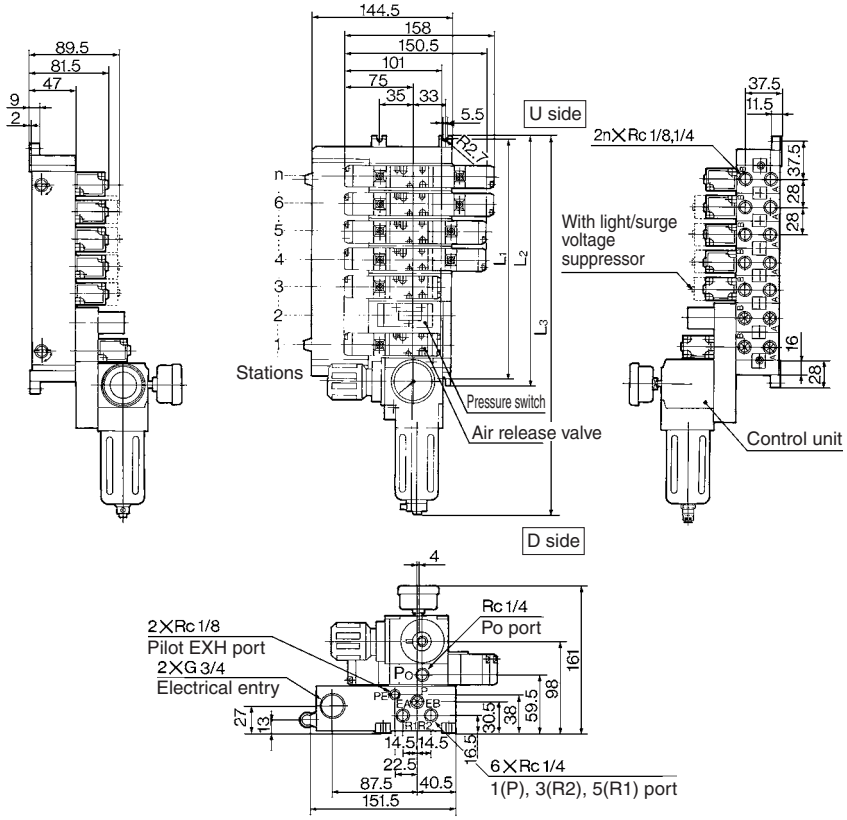
<Example>

- Plug-in type with terminal block
  (Manifold base) VV5FS2-01T1-091-02-MP5 ···· 1
  (2 position single) *VFS2100-5FZ ···· 5
  (2 position double) *VFS2200-5FZ ···· 2
  * 2 stations are needed to mount control unit.
- Non plug-in type
  (Manifold base) VV5FS2-10-071-01-M ····· 1
  (2 position single) *VFS2110-5D ····· 5
  * 2 stations are needed to mount control unit.

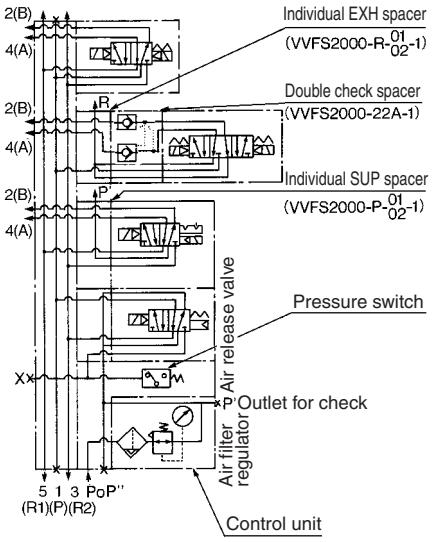
The asterisk denotes the symbol for assembly. Prefix it to the part numbers of the solenoid valve.

Manifold with Control Unit — Plug-in type, Non plug-in type

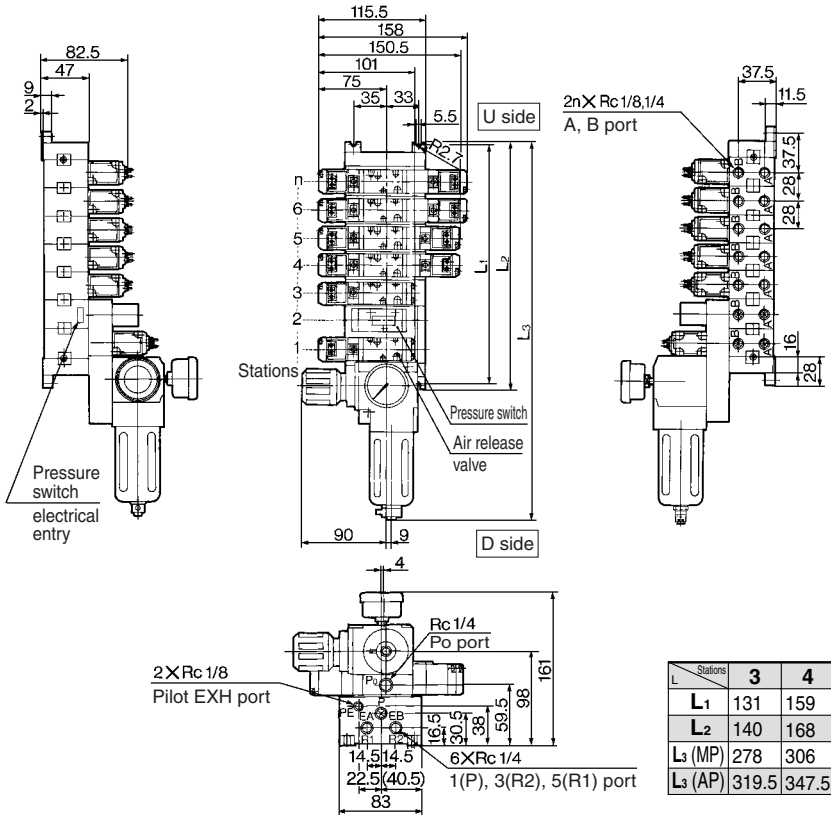
Plug-in type:
VV5FS2-01T- Station 1- Port size - Control unit Voltage for release valve



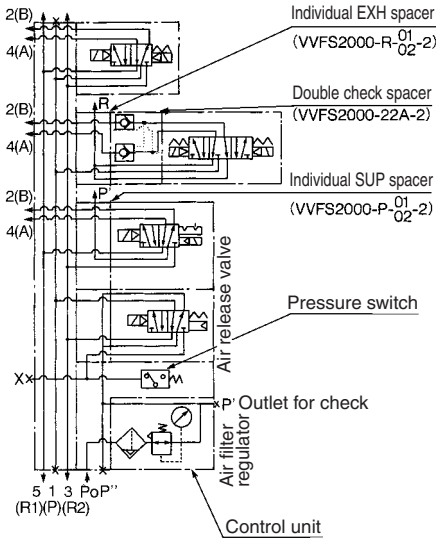
Example for manifold



Non plug-in type:
VV5FS2-10- Station 1- Port size - Control unit Voltage for release valve



Example for manifold



n: Stations

L \ Stations	3	4	5	6	7	8	9	10	Formula
L1	131	159	187	215	243	271	299	327	L1 = 28 x n + 47
L2	140	168	196	224	252	280	308	336	L2 = 28 x n + 56
L3 (MP)	278	306	334	362	390	418	446	474	L3 = 28 x n + 194
L3 (AP)	319.5	347.5	375.5	403.5	431.5	459.5	487.5	515.5	L3 = 28 x n + 235.5

Dripproof Manifold (Equivalent to IP65)

Manifold Specifications

Manifold	VV5FS2-01WTB$^{U}_{D}$		VV5FS2-01W
Wiring	Common terminal box		Attachment plug lead wire
Applicable value model	VFS2□00-□F-X54		
Porting specifications Rc	Common SUP, Common EXH		
	2(B), 4(A) port	Side: Rc 1/8, 1/4, Bottom: Rc 1/8 (Option)	
	1(P), 3(R2), 5(R1) port	Side: Rc 1/4	
Stations	2 to 10 stations		2 to 15 stations

How to Order

How to order manifold

VV5FS2 - 01WTBU - 08 1 - 02

Plug-in dripproof manifold (Equivalent to IP65)

01WTBU	Common terminal box (U side mounting)
01WTBD	Common terminal box (D side mounting)
01W	Attachment plug lead wire

Stations

02	2 stations
⋮	⋮
15	15 stations

Port size

Symbol	P, R1, R2	A, B
01	Rc 1/4	Rc 1/8
02		Rc 1/4
M		Mixed

∗ For bottom ported, A/B port is available only with Rc 1/8.

Symbol

Symbol	Passage	Porting specifications
	P, R1, R2	A, B
1	Common	Side
2∗		Bottom

∗ Option

How to order valves

VFS2 1 00 □ - 5 F □ □ - X54

Dripproof

Symbol

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 double check

Pilot valve manual override

Nil	Non-locking push type (Flush)
A∗	Non-locking push type (Extended)
B∗	Locking type (Tool required)
C∗	Locking type (Lever)

∗ Option

Pilot type

Nil	Internal pilot
R∗	External pilot

∗ Option

Option

Nil	None
Z	With light/surge voltage suppressor

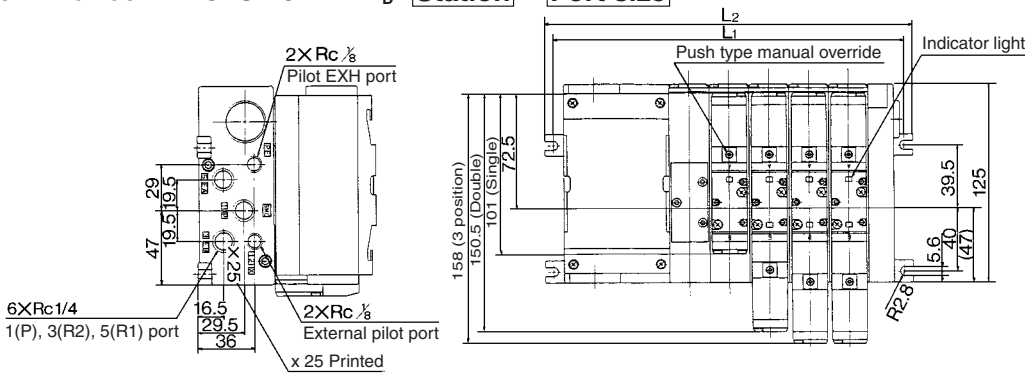
Coil rated voltage

1	100 VAC, 50/60 Hz
2	200 VAC, 50/60 Hz
3∗	110 to 120 VAC, 50/60 Hz
4∗	220 VAC, 50/60 Hz
5	24 VDC
6∗	12 VDC
7∗	240 VAC, 50/60 Hz
9∗	Other

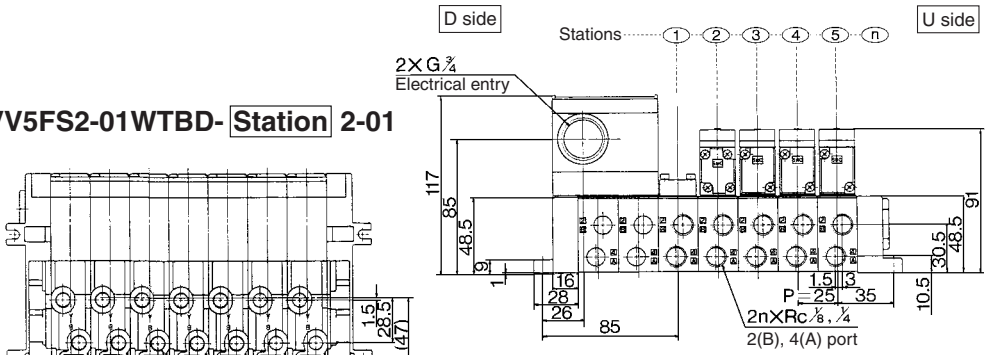
∗ Option

Dripproof Manifold

With common terminal box: VV5FS2-01WTB $^{U}_{D}$- Station 1- Port size



Bottom ported: VV5FS2-01WTBD- Station 2-01

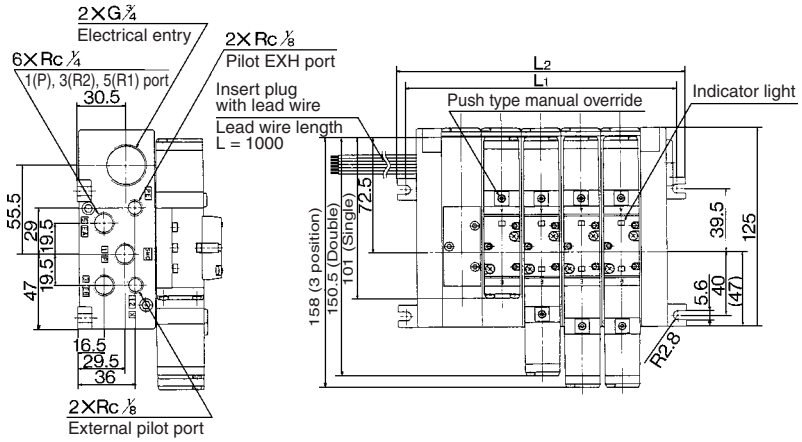


n: Stations

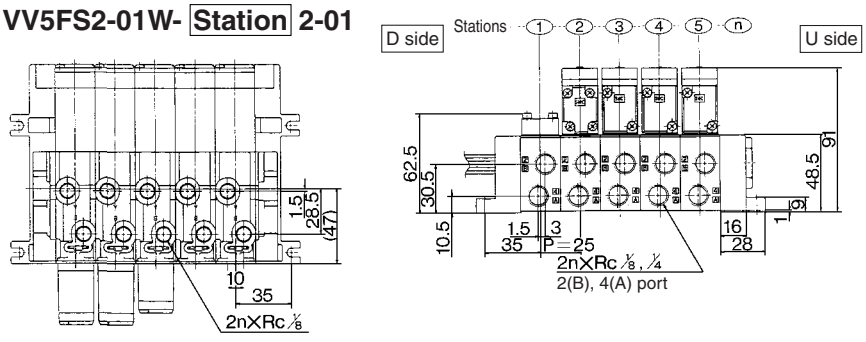
L \ Stations	1	2	3	4	5	6	7	8	9	10	Formula
L_1	120	145	170	195	220	245	270	295	320	345	$L_1 = 25 \times n + 95$
L_2	131	156	181	206	231	256	281	306	331	356	$L_2 = 25 \times n + 106$

* Terminal mounting stations are not included.
Indicates Solenoid valve mounting stations.

With attachment plug lead wire: VV5FS2-01W- Station 1- Port size



Bottom ported: VV5FS2-01W- Station 2-01



n: Stations

L \ Stations	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Formula
L_1	70	95	120	145	170	195	220	245	270	295	320	345	370	395	420	$L_1 = 25n + 45$
L_2	81	106	131	156	181	206	231	256	281	306	331	356	381	406	431	$L_2 = 25n + 56$

Made to Order

Serial Transmission Kit Manifold: EX123/124 Integrated Type (For Output)
Serial Transmission System

How to Order

How to Order Manifold

VV5FS2 − 01S V − 0 1 − 02 □ − X460

Plug-in type
Serial transmission kit

Stations

3	3 stations
⋮	⋮
18	18 stations

Note 1) Max. 18 stations. Add 2 stations for serial unit mounting.
Note 2) Max. 18 stations for all-single wiring. (No. of valves: 16)
For the standard double wiring, the maximum number of stations is 10. (No. of valves: 8)

Port size

Symbol	P, R1, R2	A, B
01	Rc 1/4	Rc 1/8
02		Rc 1/4
M		Mixed

∗ For bottom ported: Rc 1/8 only

Thread type

Nil	Rc
N	NPT
T	NPTF
F	G

Combination symbol

Symbol	Port specification		Piping specification
	P	R1, R2	A, B
1	Common	Common	Side
2∗			Bottom
3∗	Common	Individual	Side
4∗			Bottom
5∗	Individual	Common	Side
6∗			Bottom
7∗	Individual	Individual	Side
8∗			Bottom

∗ Option

Compatible with SI unit U side mounating only

Applicable models

Symbol	SI unit part no.	Description
0	—	Without SI unit
F1	EX123U-SUW1	NKE Corporation: Uni-wire System (16 outputs)
H	EX123U-SUH1	NKE Corporation: Uni-wire H System (16 outputs)
J1	EX123U-SSL1	SUNX Corporation: S-LINK System (16 outputs)
J2	EX123U-SSL2	SUNX Corporation: S-LINK System (8 outputs)
Q	EX124U-SDN1	DevieNet (2 power supply systems)
R1	EX124U-SCS1	OMRON Corporation: CompoBus/S (16 outputs) (2 power supply systems)
R2	EX124U-SCS2	OMRON Corporation: CompoBus/S (8 outputs) (2 power supply systems)
V	EX124U-SMJ1	CC-Link (2 power supply systems)

Refer to pages 1653 to 1655 for the details of the EX123/124 integrated type (for output) serial transmission system.

● Correspondence of SI unit output numbers and solenoid valve coils

<Wiring Example 1> Double wiring (Standard)

D side — U side

SI unit output no.	1	2	3	4	5	6	7	8	9	10
	Double	Double	Single	Single	Single	Double	Single	Single	SI unit	
	A B	A B	A B	A B	A B	A B	A B	A B		
	0 1	2 3	4 5	6 7	8 9	10 11	12 13	14 15		

<Wiring Example 2> Single/Double mixed wiring (Option)

D side — U side

SI unit output no.	1	2	3	4	5	6	7	8	9	10	11	12
	Double	Double	Single	Single	Single	Double	Single	Double	Single	Single	SI unit	
	A B	A B	A	A	A	A B	A	A B	A	A		
	0 1	2 3	4	5	6	7 8	9	10 11	11	12		

∗ Mixed wiring is available as an option. Use the manifold specification sheet to specify this.

How to Order Valves

VFS2 □ 00 □ − 5 F □ □

Symbol

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 double check

Pilot type

Nil	Internal pilot
R	External pilot

24 VDC

Pilot valve manual override

Nil	Non-locking push type (Flush)
A	Non-locking push type (Extended)
B	Locking type (Tool required)
C	Locking type (Lever)

Option

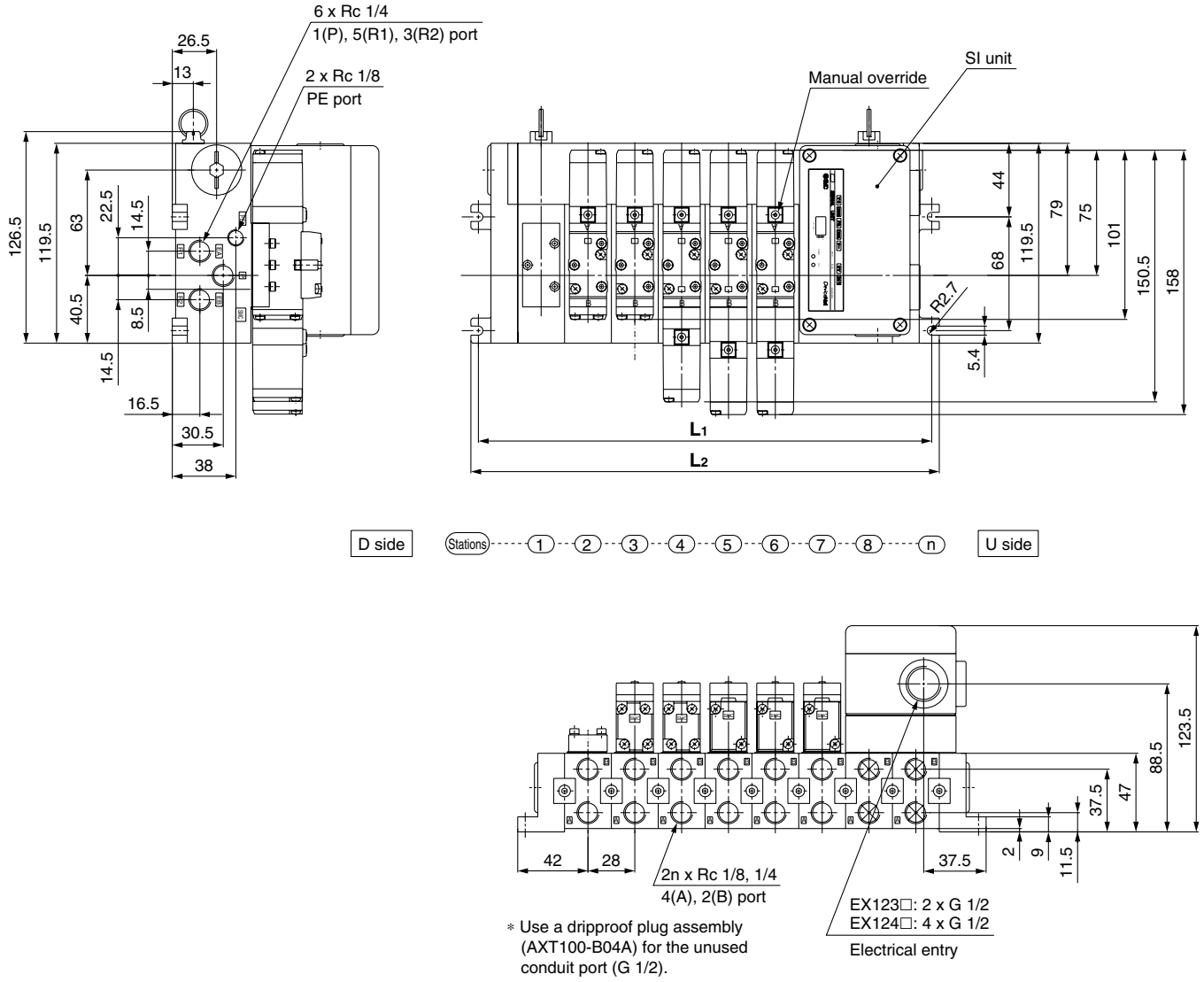
Nil	None
Z	With light/surge voltage suppressor

Coil rated voltage

Nil	None

Serial Transmission Kit Manifold: EX123/124 Integrated Type (For Output) Serial Transmission System

VV5FS2-01S Model - Stations Symbol - Port size -X460



∗ Use a dripproof plug assembly (AXT100-B04A) for the unused conduit port (G 1/2).

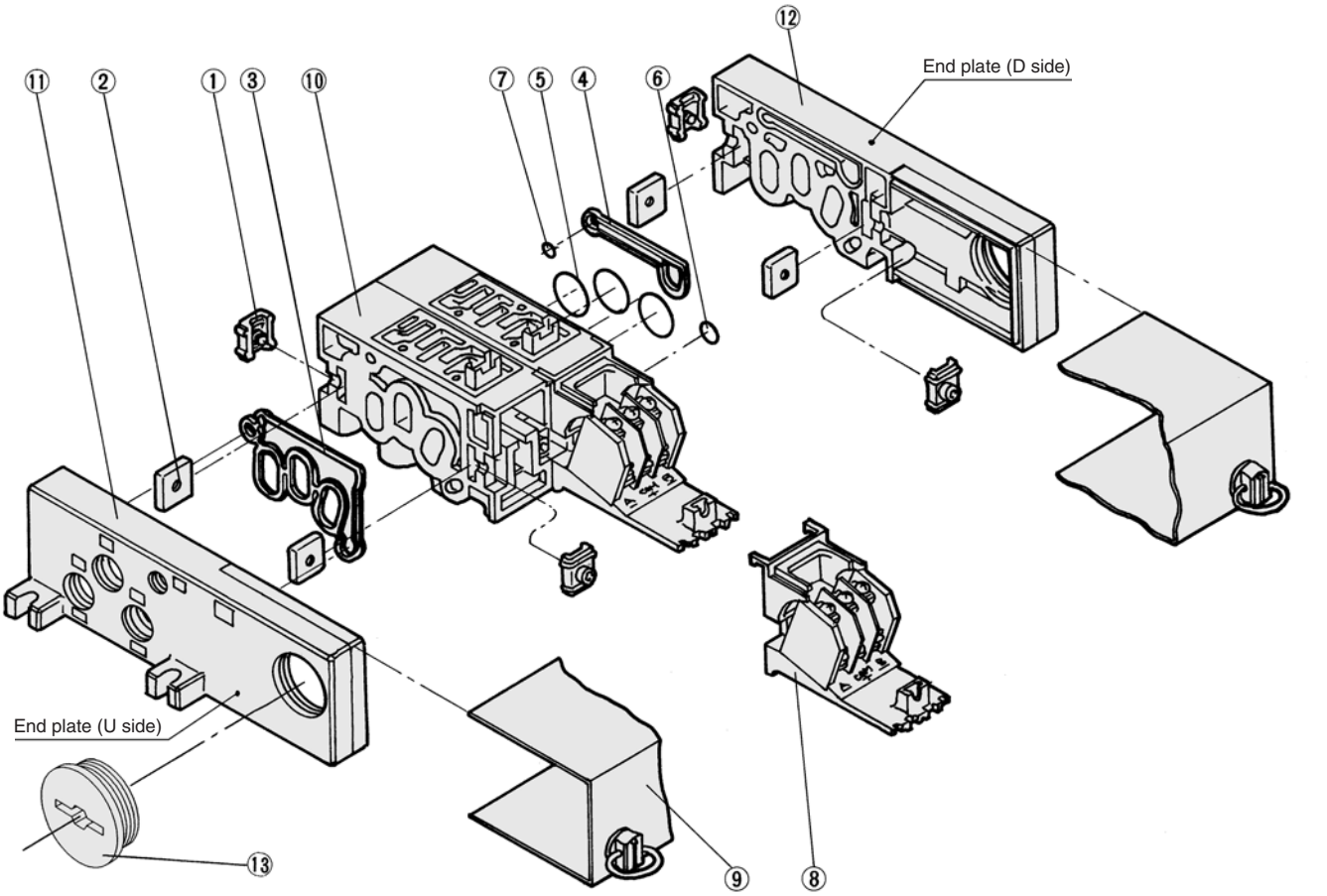
Dimensions

Formula $L_1 = 28n + 47$ $L_2 = 28n + 56$
n: Stations (Max. 18 stations)

L \ n	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L_1	131	159	187	215	243	271	299	327	355	383	411	439	467	495	523	551
L_2	140	168	196	224	252	280	308	336	364	392	420	448	476	504	532	560

Note) Actual number of manifold base stations: Add 2 SI unit mounting stations to the number of valve stations.

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



Replacement Parts

No.	Description	Material		Part no.
1	**Connection fitting A**	Steel plate		AXT625-4-1#1
2	**Connection fitting B**	Steel plate		AXT625-5
3	**Gasket A**	NBR		AXT625-17
4	**Gasket B**	NBR		AXT625-16
5	**O-ring**	NBR		18 x 15 x 1.5
6	**O-ring**	NBR		10.5 x 7.5 x 1.5
7	**O-ring**	NBR		8 x 5 x 1.5
8	**Adapter plate**	Resin	For 01	AXT625-6
	Adapter plate assembly	—	For 01T	AXT625-28-1A (Terminal section with adapter plate)
			For 01T1	
	Adapter plate	Resin	For 01C	AXT625-28-1
			For 01F	VVF2000-26-6
			For 01S□	AXT625-6

No.	Description	Material		Part no.
9	**Junction cover assembly**	—	For 01	AXT625-7A
			For 01T	AXT625-28-3A
			For 01T1	AXT625-28-7A- Stations
			For 01C	
			For 01F	VVF2000-26-5A- Stations
			For 01S□	AZ738-10A- Stations
13	**Rubber plug**	NBR	For 01	AXT333-12
			For 01T / 01S□	AXT625-22
	Plug	—	For 01 W	EXP22S

- For increasing the manifold bases, please order the manifold block assembly number of the principle number 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.

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

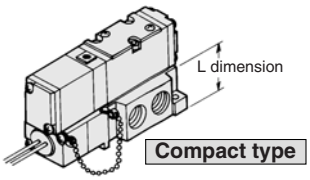
Replacement Parts: Sub Assembly

No.	Description	Assembly part no.	Component parts	Applicable manifold base
10	**Manifold block assembly**	AXT625-01A-$\frac{1}{2}$ Note)	Manifold block ⑩, Metal joint ①, ②. O-ring ⑤, ⑥, ⑦ Junction cover, Adapter plate, Pin housing, Guide, Insert plug lead wire	Plug-in type With attachment plug lead wire
		AXT625-20A-$\frac{1}{2}$ Note)	Manifold block ⑩, Metal joint ①, ②, O-ring ⑤, ⑥, ⑦ Terminal ⑧, Junction cover ⑨, Adaptor plate, Pin housing, Guide	Plug-in type With terminal block
		AXT625-10A-$\frac{1}{2}$ Note)	Manifold block ⑩, Metal joint ①, ②, O-ring ⑤, ⑥, ⑦	Non plug-in type
11	**End plate (U side) assembly**	AXT625-2A	End plate (U) ⑪, Metal joint ①, ②, Gasket A ③, Guard ⑬	Plug-in type With attachment plug lead wire
		AXT625-2A-20	End plate (U) ⑪, Metal joint ①, ②, Gasket A ③, Guard ⑬	Plug-in type With terminal block
		AXT625-2A-10	End plate (U) ⑪, Metal joint ①, ②, Gasket A ③, Guard ⑬	Non plug-in type
12	**End plate (D side) assembly**	AXT625-3A	End plate (D) ⑫, Metal joint ①, ②, Gasket B ④, Guard ⑬, Steel ball	Plug-in type With attachment plug lead wire
		AXT625-3A-20	End plate (D) ⑫, Metal joint ①, ②, Gasket B ④, Guard ⑬, Steel ball	Plug-in type With terminal block
		AXT625-3A-10	End plate (D) ⑫, Metal joint ①, ②, Gasket B ④, Guard ⑬, Steel ball	Non plug-in type

Note) 1: A, B port size Rc 1/8, 2: A, B port size Rc 1/4

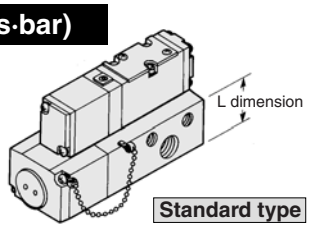
Light Compact Type Sub-plate/C: 2.8 dm³/(s·bar)

C: 2.2 dm³/(s·bar)



Compact type

C: 2.8 dm³/(s·bar)



Standard type

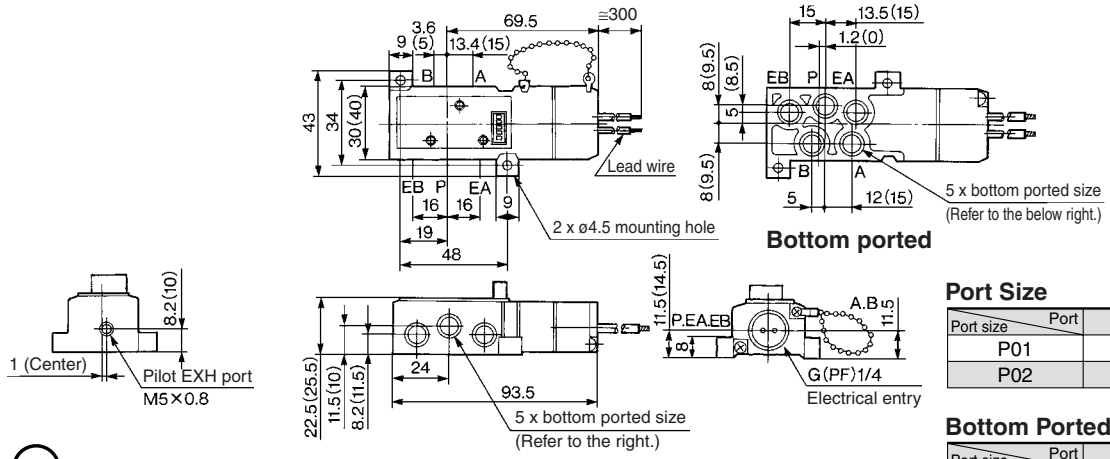
Sub-plate

Type	L dimension (mm)	Mass (kg)
Compact type	25.5	0.13
Standard type	31	0.2

Sub-plate — Compact: Plug-in, Grommet (With attachment plug lead wire)

VFS2□00-□F-(B) P01/P02

Sub-plate assembly part no.: VFS2000-CP-(B) 01/02 (01: Rc 1/8, 02: Rc 1/4)



( ): Port size P02

Port Size

Port size \ Port	P, A, B	EA, EB
P01	Rc 1/8	Rc 1/8
P02	Rc 1/4	Rc 1/8

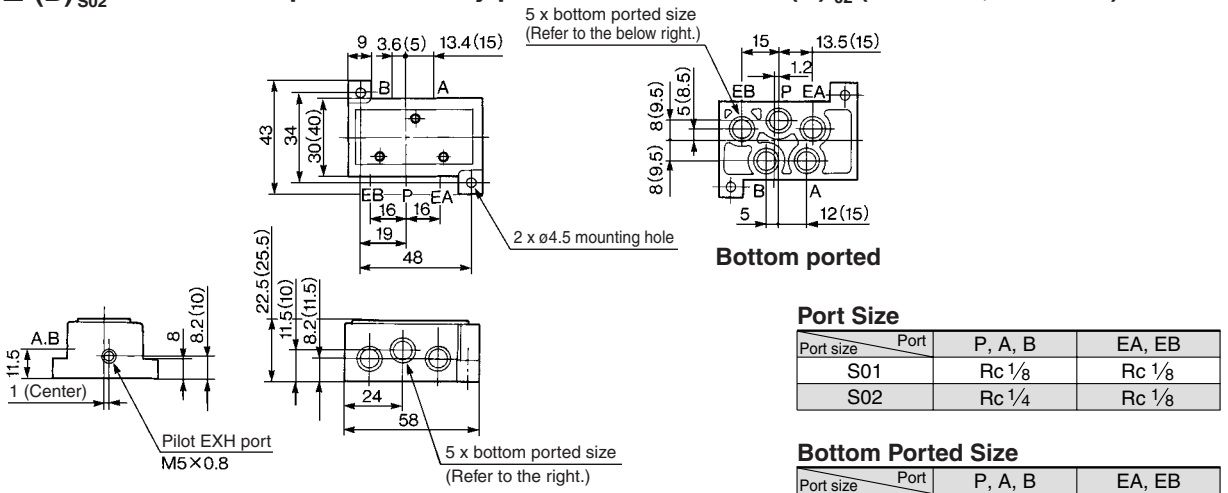
Bottom Ported Size

Port size \ Port	P, A, B	EA, EB
BP02	Rc 1/8, 1/4	Rc 1/8

Sub-plate — Compact: Non plug-in

VFS2□10-□□-(B) S01/S02

Sub-plate assembly part no.: VFS2000-CS-(B) 01/02 (01: Rc 1/8, 02: Rc 1/4)



( ): Port size S02

Port Size

Port size \ Port	P, A, B	EA, EB
S01	Rc 1/8	Rc 1/8
S02	Rc 1/4	Rc 1/8

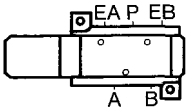
Bottom Ported Size

Port size \ Port	P, A, B	EA, EB
BS02	Rc 1/8 1/4	Rc 1/8

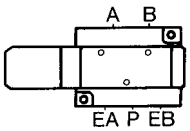
Precautions

Please pay attention to piping port location of sub-plate.

VFS2□□0-□□-P01/02/S01/02: Compact type



VFS2□□0-□□-01/02: Standard type



Electrical Connection

Compact type, plug-in type grommet sub-plate (With attachment plug lead wire)

- The attachment plug lead wire is attached to the manifold block and lead wire is plugged in with valve side as shown in the following list. Please connect with corresponding power side.

Solenoid	A side		B side	
Lead wire color	Red	Black	Brown	White

- There is no polarity.

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