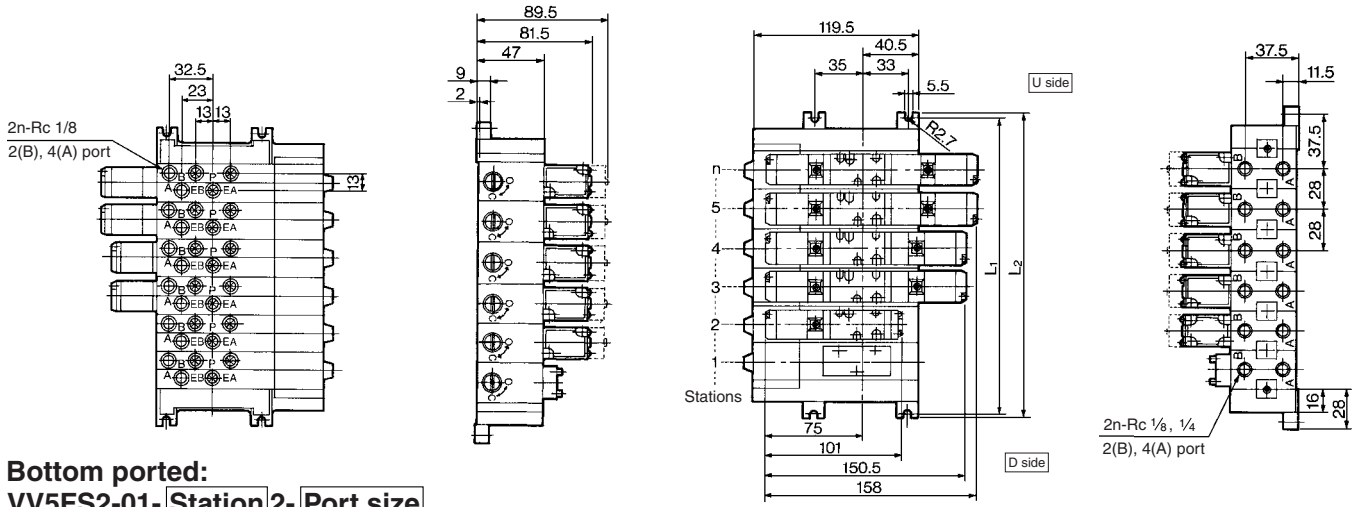


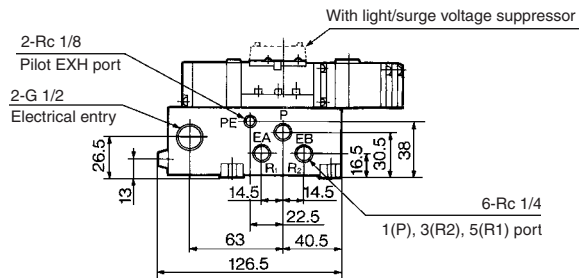
# 5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VFS2000

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

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

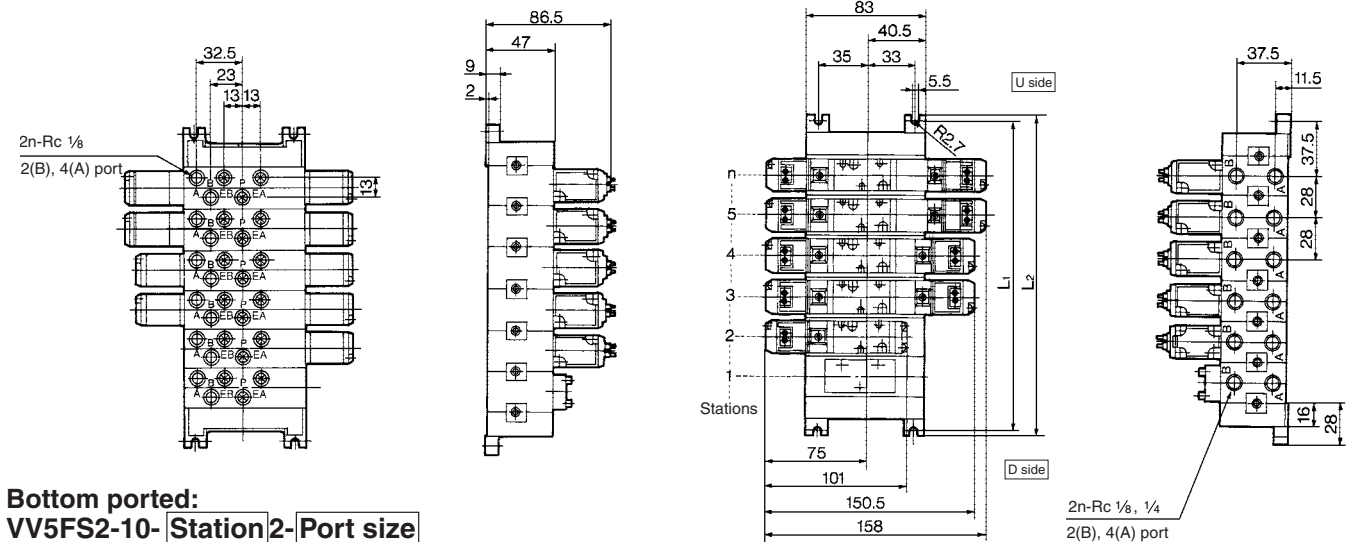


### Bottom ported: VV5FS2-01- Station 2- Port size

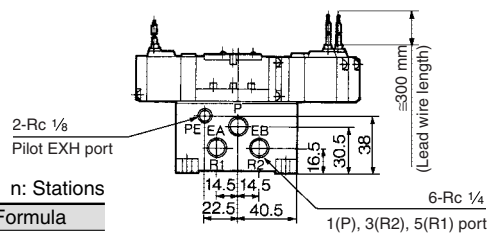


Formula for manifold weight  $M = 0.201n + 0.299$  (kg) n: Station

### 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

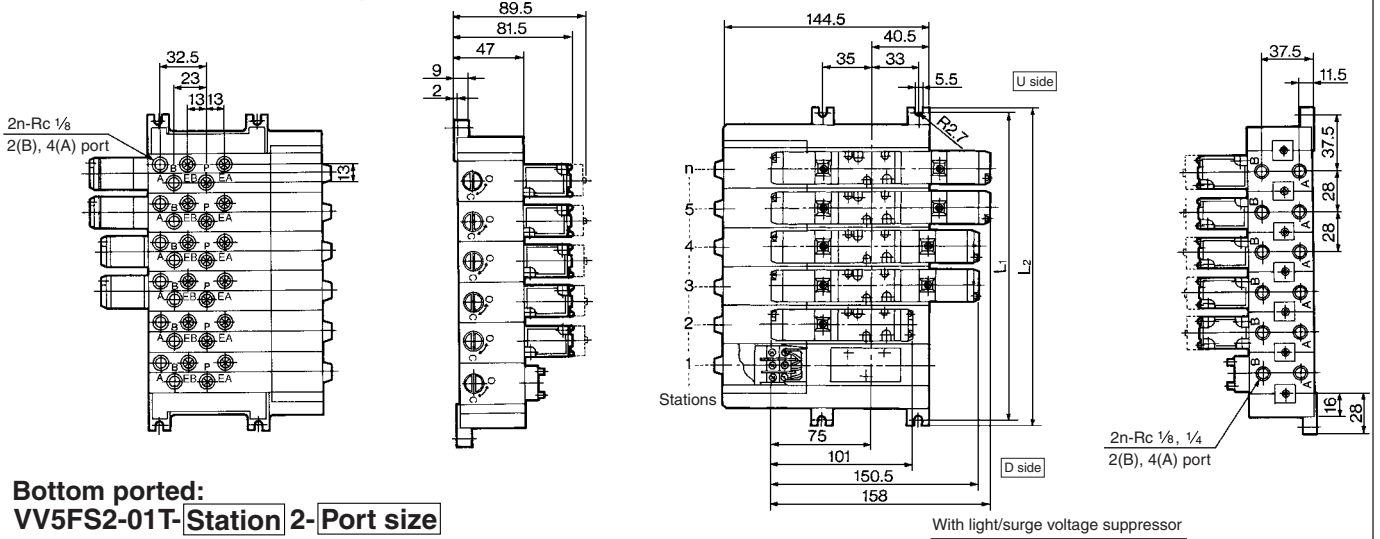
Stations	1	2	3	4	5	6	7	8	9	10	Formula
L <sub>1</sub>	75	103	131	159	187	215	243	271	299	327	L <sub>1</sub> = 28 x n + 47
L <sub>2</sub>	84	112	140	168	196	224	252	280	308	336	L <sub>2</sub> = 28 x n + 56

- VK
- VZ
- VF
- VFR
- VP4
- VZS
- VFS
- VS4
- VQ7
- EVS
- VFN

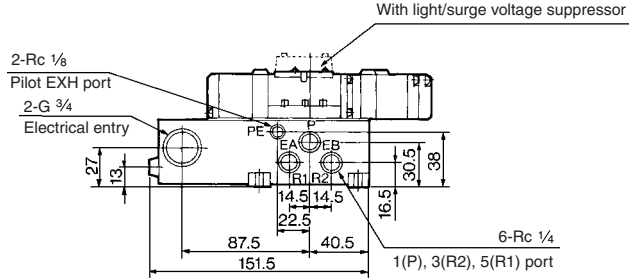
# Series VFS2000

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

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

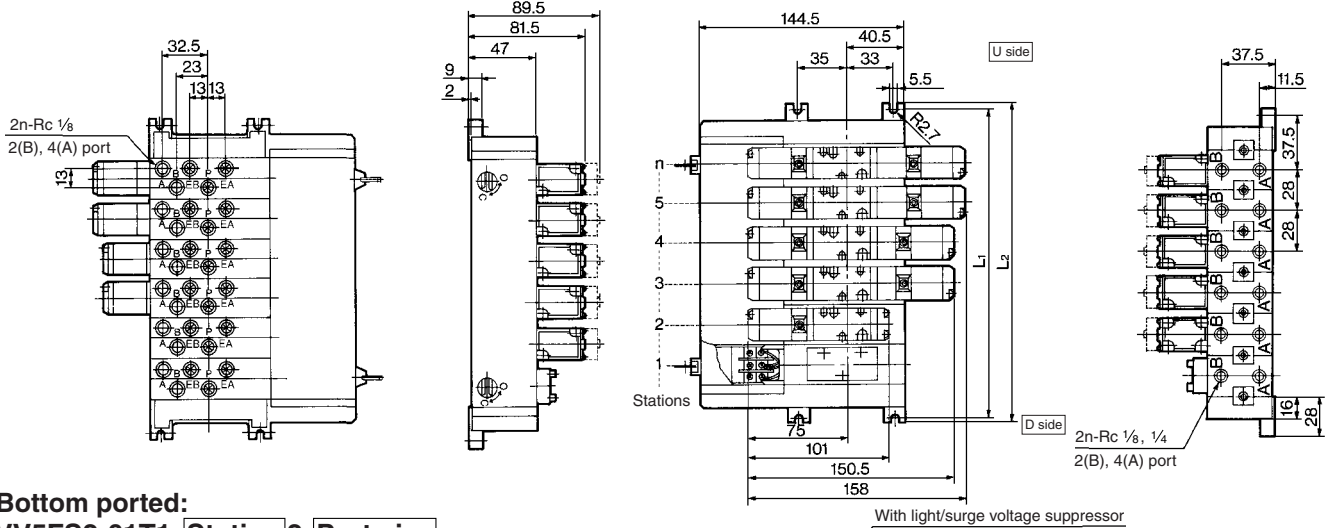


### Bottom ported: VV5FS2-01T- Station 2- Port size

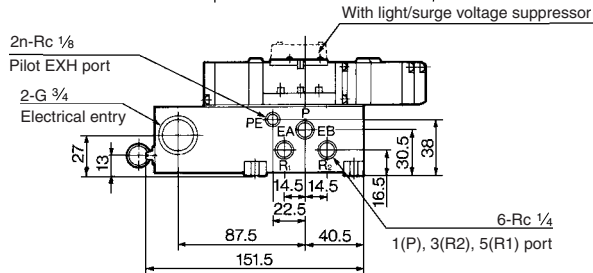


Formula for manifold weight  $M = 0.215n + 0.35$  (kg) n: Station

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



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



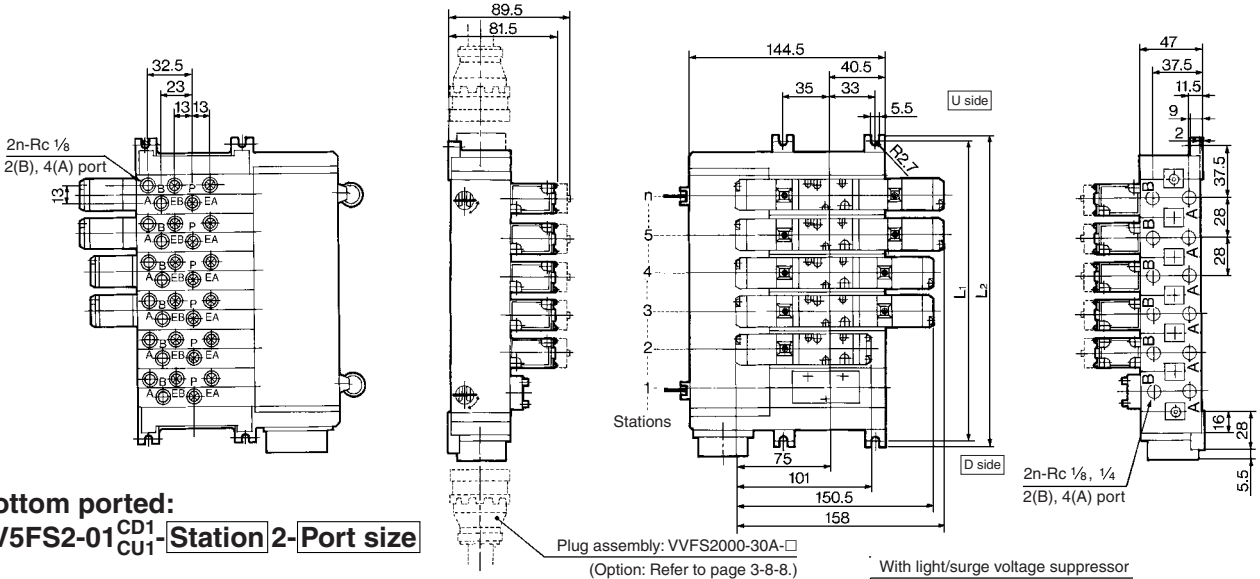
Formula for manifold weight  $M = 0.236n + 0.354$  (kg) n: Station

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

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

## 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<sup>CD1</sup><sub>CU1</sub>-Station 2-Port size

Plug assembly: VVFS2000-30A-□  
(Option: Refer to page 3-8-8.)

Formula for manifold weight  $M = 0.211n + 0.442$  (kg) n: Station  
\* Wiring specifications: Refer to page 3-8-8.



VK

VZ

VF

VFR

VP4

VZS

VFS

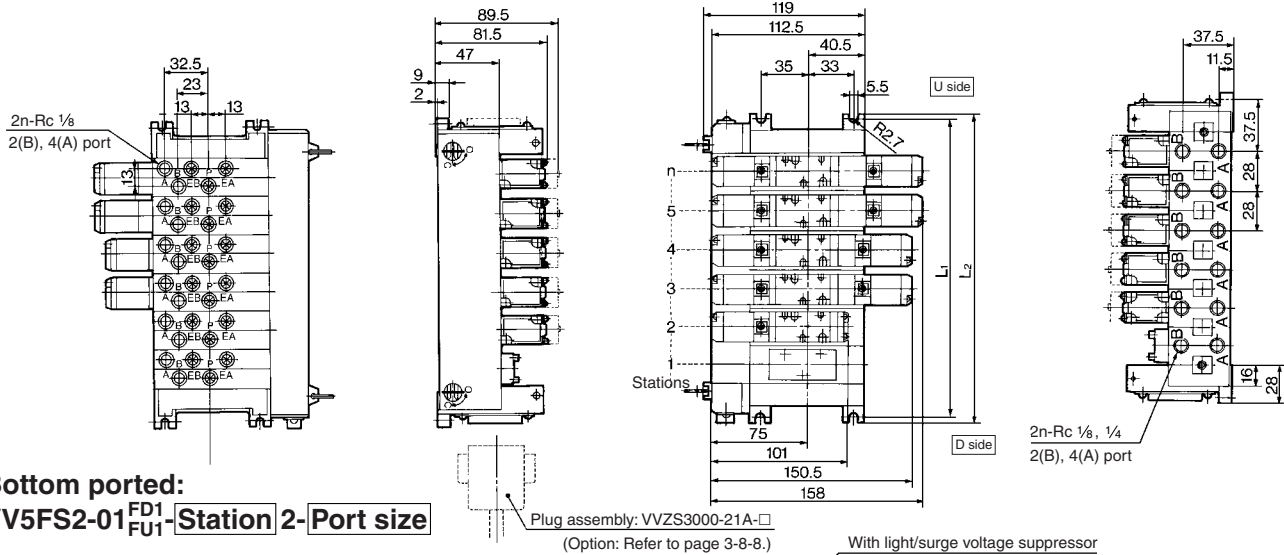
VS4

VQ7

EVS

VFN

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



Bottom ported:  
VV5FS2-01<sup>FD1</sup><sub>FU1</sub>-Station 2-Port size

Plug assembly: VVZS3000-21A-□  
(Option: Refer to page 3-8-8.)

Formula for manifold weight  $M = 0.178n + 0.378$  (kg) n: Station  
\* Wiring specifications: Refer to page 3-8-8.

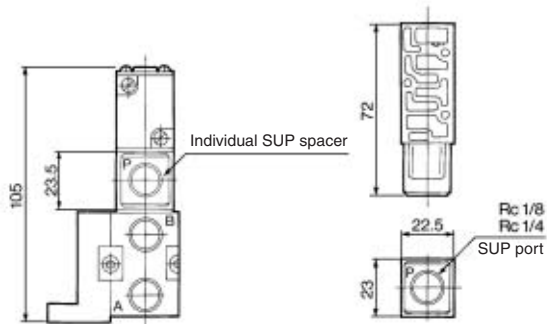


Stations	1	2	3	4	5	6	7	8	Formula
L <sub>1</sub>	75	103	131	159	187	215	243	271	L <sub>1</sub> = 28 x n + 47
L <sub>2</sub>	84	112	140	168	196	224	252	280	L <sub>2</sub> = 28 x n + 56

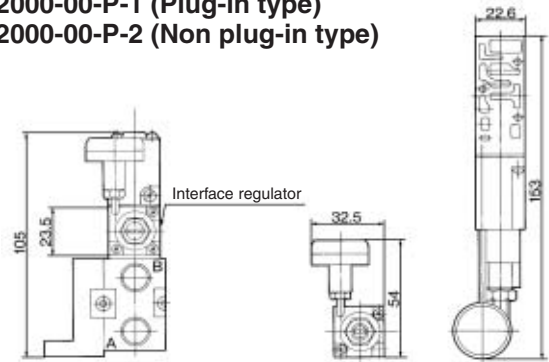
# Series VFS2000

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

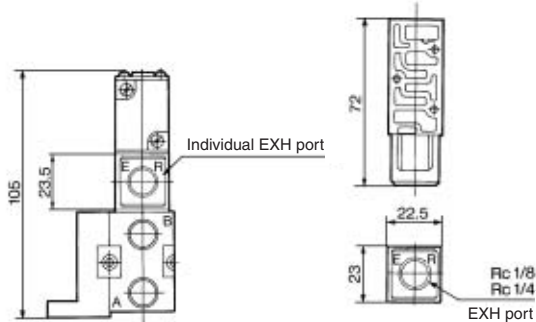
**Individual SUP spacer:**  
 VVFS2000-P-01-1 (Plug-in type)  
 VVFS2000-P-01-2 (Non plug-in type)



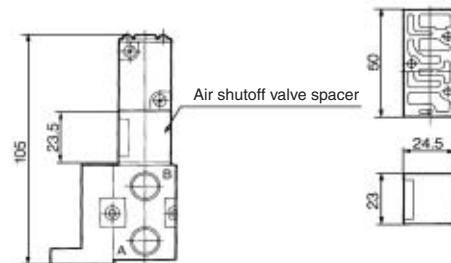
**Interface regulator:**  
 ARBF2000-00-P-1 (Plug-in type)  
 ARBF2000-00-P-2 (Non plug-in type)



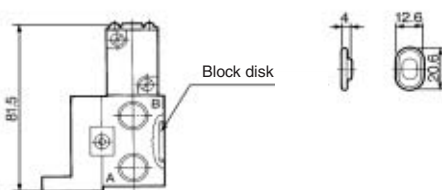
**Individual EXH spacer:**  
 VVFS2000-R-01-1 (Plug-in type)  
 VVFS2000-R-01-2 (Non plug-in type)



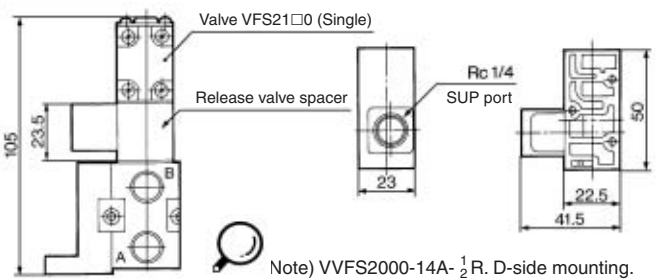
**Air shutoff valve spacer:**  
 VVFS2000-21A-1 (Plug-in type)  
 VVFS2000-21A-2 (Non plug-in type)



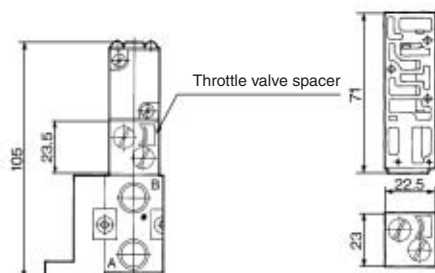
**SUP block disk: AXT625-12A**  
**EXH block disk: AXT625-12A**



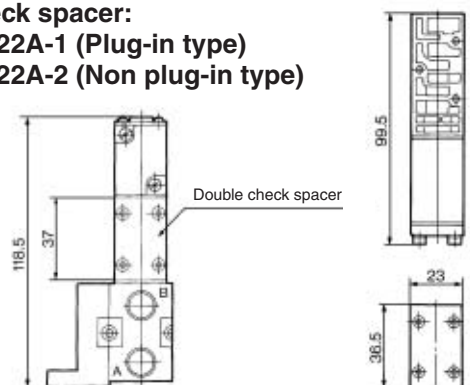
**Release valve spacer:**  
 VVFS2000-24A-1<sup>R</sup> (Plug-in type)  
 VVFS2000-24A-2<sup>R</sup> (Non plug-in type)



**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)



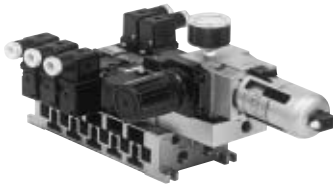
# 5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VFS2000

## 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 1 (P), 3(R2), 5(R1) port	Side: Rc 1/8, 1/4, Bottom: Rc 1/8 (Option) 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 <sup>(1)</sup>	
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 <sup>(2)</sup>	<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 <sup>(3)</sup>	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 3-8-42.
- 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

### 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		Porting specifications
	P	EA, EB	
1	Common	Common	Side
2*	Common	Common	Bottom
3*			Side
4*	Common	Individual	Bottom
5*			Side
6*	Individual	Common	Bottom
7*			Side
8*	Individual	Individual	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".

### Manifold Composition

Series VFS2000 Manifold Base type/Electrical entry

01 10 08 1 01 AP

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

Symbol	Nil	A	AP	M	MP	F	G	C	E
Control equipment									
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	2	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

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

<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.

VK

VZ

VF

VFR

VP4

VZS

VFS

VS4

VQ7

EVS

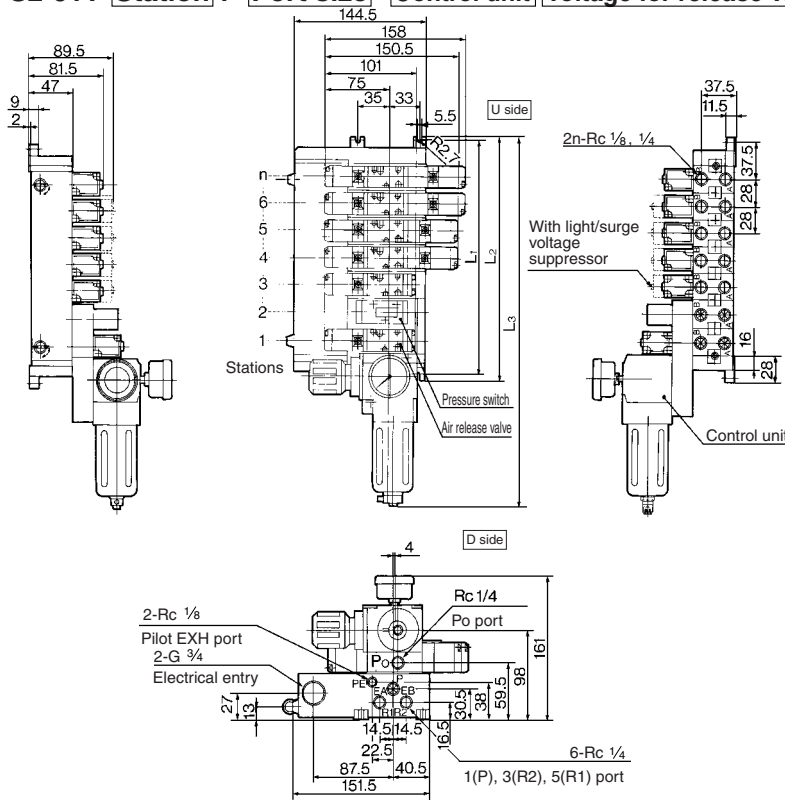
VFN



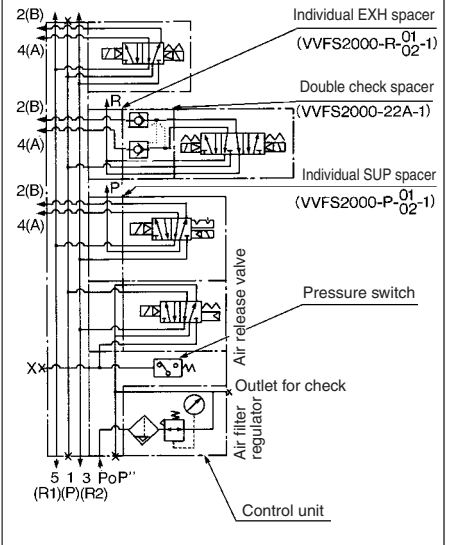
# Series VFS2000

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

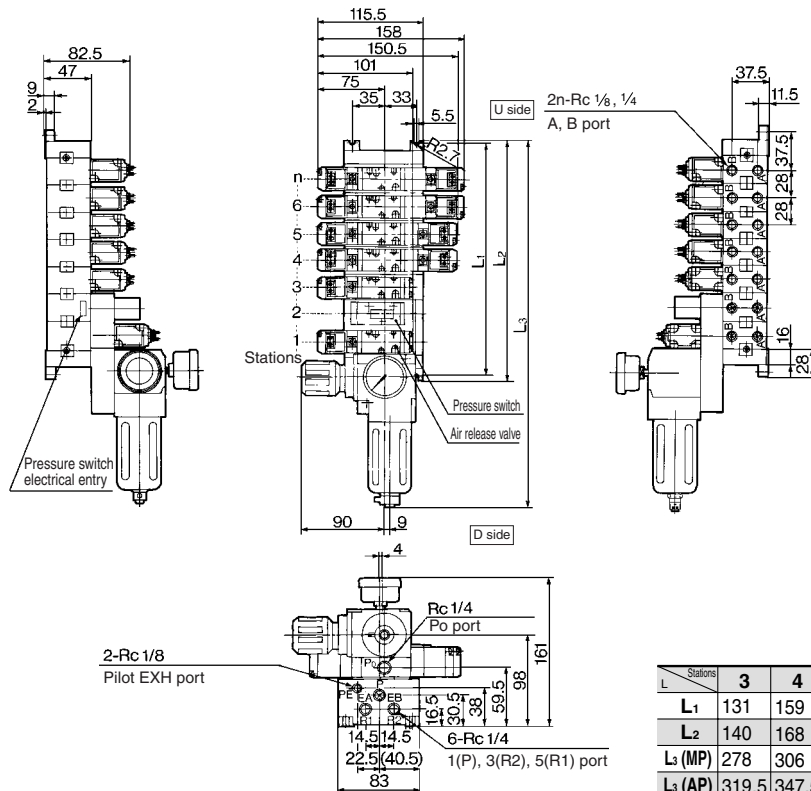
Plug-in type:  
**VVFS2-01T- Station 1- Port size- Control unit Voltage for release valve**



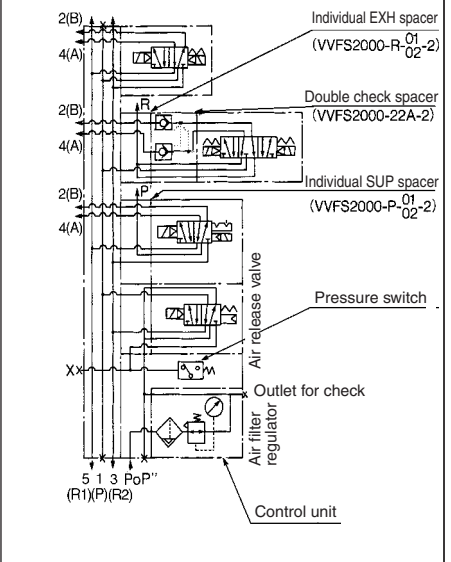
### Example for manifold



Non plug-in type:  
**VVFS2-10- Station 1- Port size - Control unit Voltage for release valve**



### Example for manifold



n: Stations

Stations	3	4	5	6	7	8	9	10	Formula
L <sub>1</sub>	131	159	187	215	243	271	299	327	L <sub>1</sub> = 28 x n + 47
L <sub>2</sub>	140	168	196	224	252	280	308	336	L <sub>2</sub> = 28 x n + 56
L <sub>3</sub> (MP)	278	306	334	362	390	418	446	474	L <sub>3</sub> = 28 x n + 194
L <sub>3</sub> (AP)	319.5	347.5	375.5	403.5	431.5	459.5	487.5	515.5	L <sub>3</sub> = 28 x n + 235.5

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

## Dripproof Manifold (Equivalent to IP65)

### Manifold Specifications

Manifold	VV5FS2-01WTBU	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)

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

#### Port size

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

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

#### Stations

<b>02</b>	2 stations
<b>:</b>	<b>:</b>
<b>15</b>	15 stations

#### Symbol

Symbol	Passage	Porting specifications
	P, R1, R2	A, B
<b>1</b>	Common	Side
<b>2*</b>		Bottom

\* Option

#### How to order valves

**VFS2 1 00 □ 5 F □ □ X54**

#### Symbol

<b>1</b>	2 position single
<b>2</b>	2 position double
<b>3</b>	3 position closed center
<b>4</b>	3 position exhaust center
<b>5</b>	3 position pressure center
<b>6</b>	3 position double check

#### Pilot type

<b>Nil</b>	Internal pilot
<b>R*</b>	External pilot

\* Option

#### Dripproof

#### Pilot valve manual override

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

\* Option

#### Option

<b>Nil</b>	None
<b>Z</b>	With light/surge voltage suppressor

#### Coil rated voltage

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

\* Option

VK

VZ

VF

VFR

VP4

VZS

VFS

VS4

VQ7

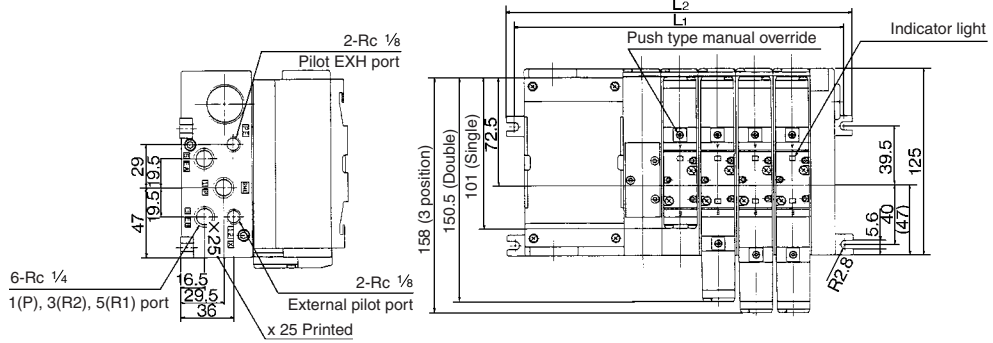
EVS

VFN

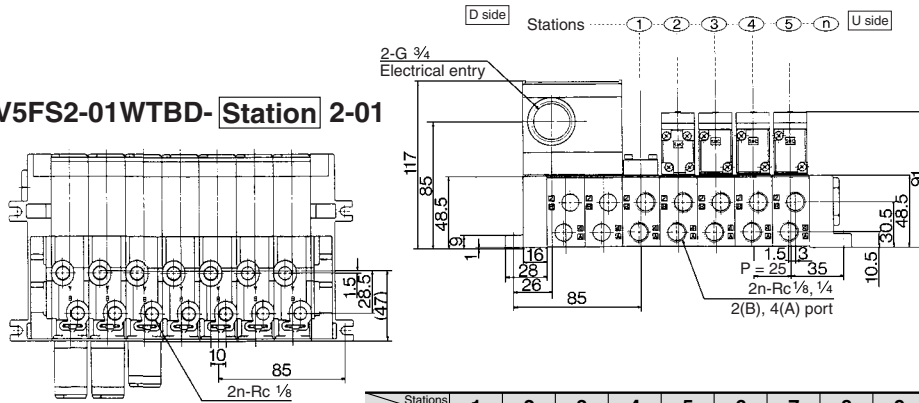
# Series VFS2000

## Driproof Manifold

### With common terminal box: VV5FS2-01WTB<sup>U</sup><sub>D</sub> - Station 1- Port size



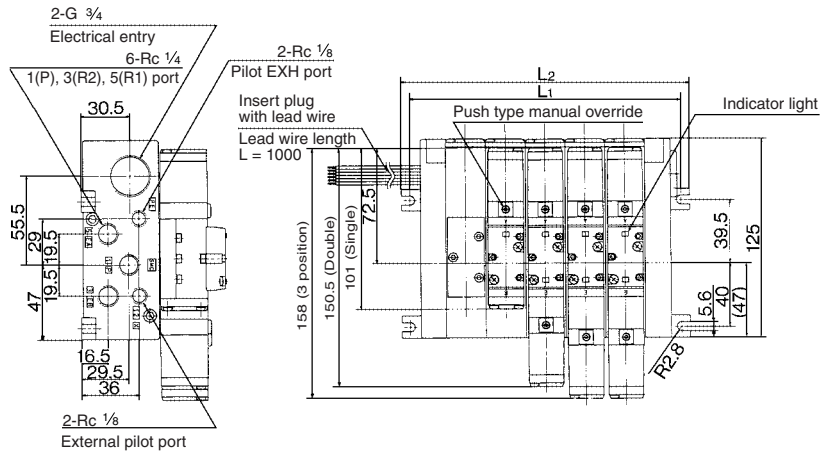
### Bottom ported: VV5FS2-01WTBD - Station 2-01



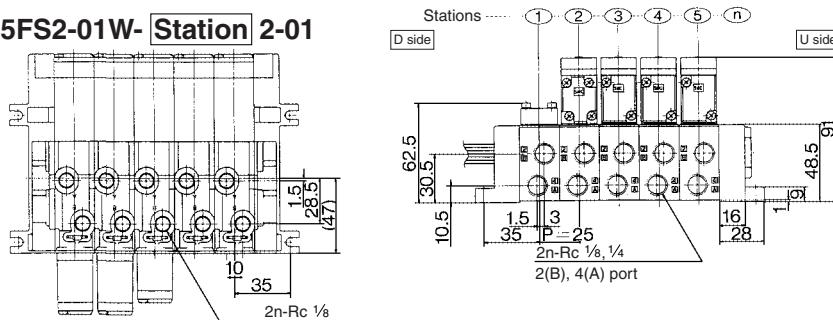
\* Terminal mounting stations are not included. Indicates Solenoid valve mounting stations.

		n: Stations										
L	Stations	1	2	3	4	5	6	7	8	9	10	Formula
L <sub>1</sub>		120	145	170	195	220	245	270	295	320	345	L <sub>1</sub> = 25 x n + 95
L <sub>2</sub>		131	156	181	206	231	256	281	306	331	356	L <sub>2</sub> = 25 x n + 106

### 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 <sub>1</sub>		70	95	120	145	170	195	220	245	270	295	320	345	370	395	420	L <sub>1</sub> = 25n + 45
L <sub>2</sub>		81	106	131	156	181	206	231	256	281	306	331	356	381	406	431	L <sub>2</sub> = 25n + 56