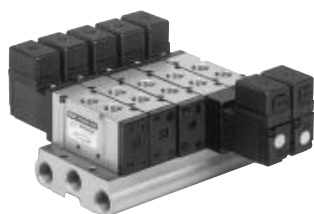


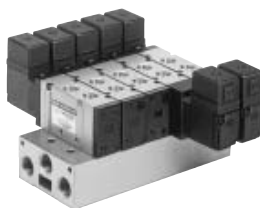
Series VFS2000 Manifold Specifications Single Base Type

Keeps environmental air clean from pilot exhaust

Use of the VV5FS2-30 manifold can exhaust side, and can prevent environmental aggravation due to noise and oil mist.



VV5FS2-20



VV5FS2-30

Part no. for mounting bolt and gasket
BG-VFS2030

Specifications

Manifold base type	Bar manifold, Body ported
Stations	Max. 15 stations

Port Specifications

Symbol	Passage		Porting specifications: Rc		
	1(P)	5(R1), 3(R2)	Base	Valve	Base
1	Common	Common	Side: 3/8	Top: 1/8, 1/4	Side: 3/8

Option

Blanking plate	VVFS2000-10A-1	With gasket, screw
----------------	----------------	--------------------

How to Order Manifold Base

VV5FS2-20-05-1-03

Series VFS2000
Manifold

Thread type

Nil	Rc
N*	NPT
T*	NPTF
F*	G

* Option

P, EA, EB port size
03—Rc 3/8

Symbol

Stations

02	2 stations
⋮	⋮
15	15 stations

Symbol	Passage		Porting specifications
	1(P)	3(R2), 5(R1)	2(B), 4(A)
1	Common Rc 3/8	Common Rc 3/8	Top Rc 1/8, 1/4

Base model

Model	Pilot exhaust	Applicable valve model
20	Pilot individual EXH 	VFS2□20-□□-01 02
30	Pilot common EXH 	VFS2□30-□□-01 02 *VFS2□20-□□-01 02 mountable

How to Order Manifold Assembly

Instruct by specifying the valves and blanking plate to be mounted on the manifold along with the manifold base model no.

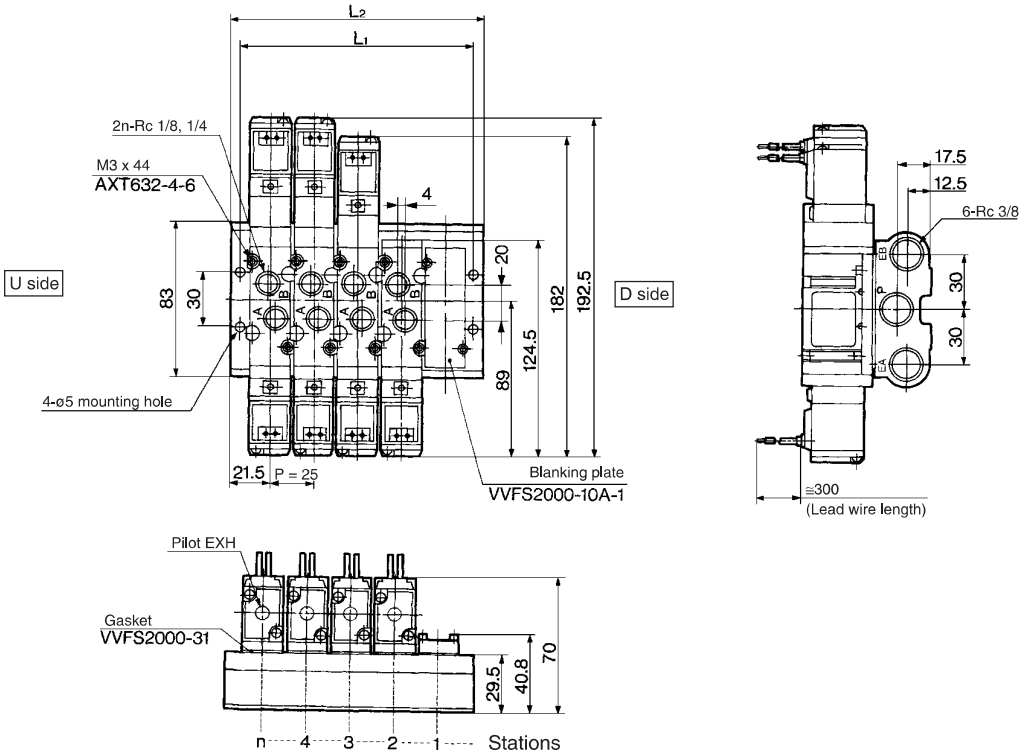
<Example>

(Manifold base)	VV5FS2-20-061-03	1
(2 position single)	VFS2120-1D-02	3
(2 position double)	VFS2220-1D-02	2
(Blanking plate)	VVFS2000-10A-1	1

5 Port Pilot Operated Solenoid Valve Metal Seal, Body Ported Series VFS2000

Type 20 Manifold Pilot individual exhaust: VV5FS2-20- Station 1-03

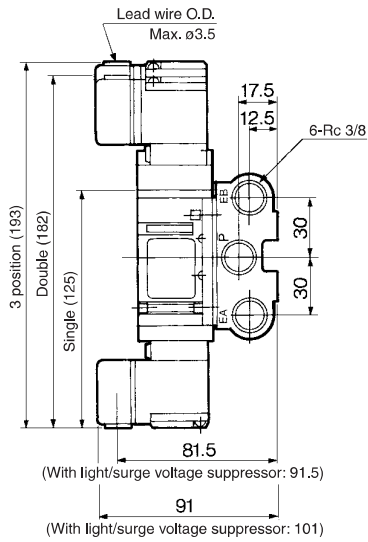
Grommet: G



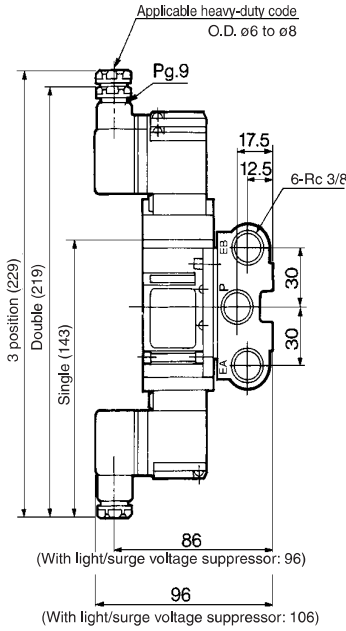
Formula for manifold weight $M = 0.108n + 0.068$ (kg) n: Station

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

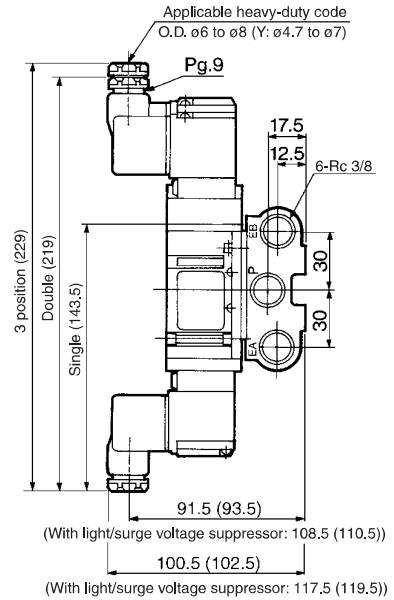
Grommet terminal: E/EZ



Conduit terminal: T/TZ



DIN terminal: D/DZ



(): Y, YZ

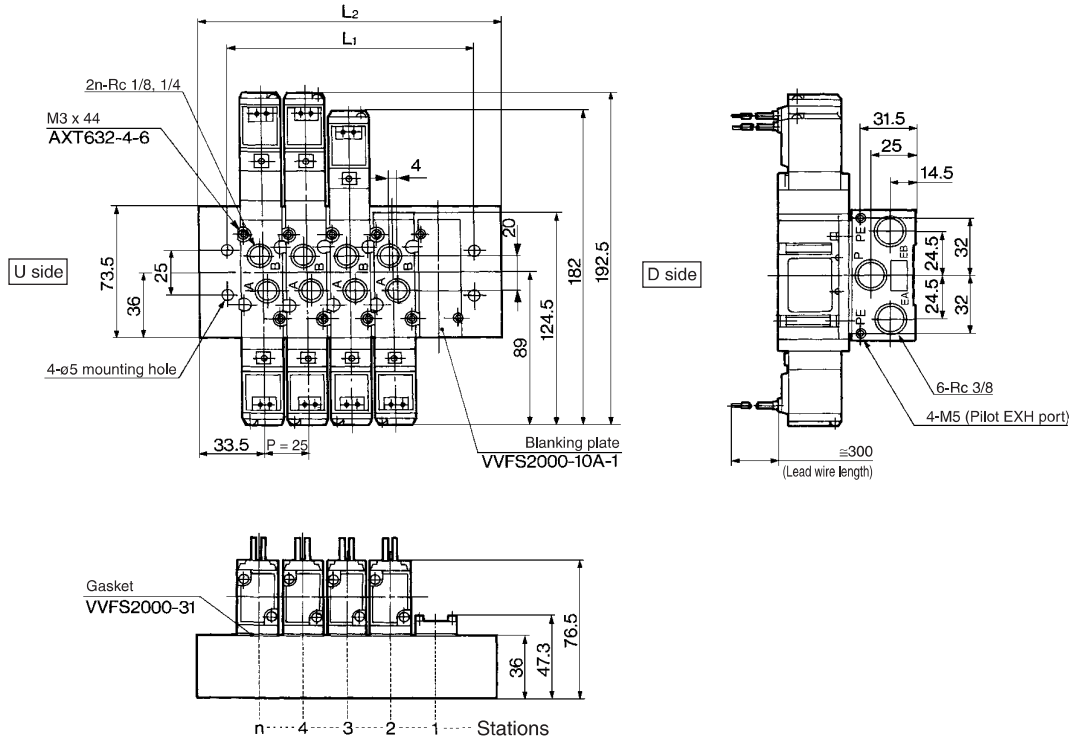
n: Station

L	Stations	2	3	4	5	6	7	8	9	10	Formula
L ₁		58	83	108	133	158	183	208	233	258	$L_1 = 25 \times n + 8$
L ₂		68	93	118	143	168	193	218	243	268	$L_2 = 25 \times n + 18$

Series VFS2000

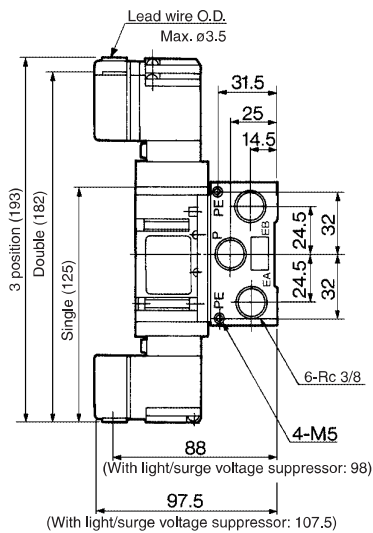
Type 30 Manifold Pilot common exhaust: VV5FS2-30- Station 1-03

Grommet: G

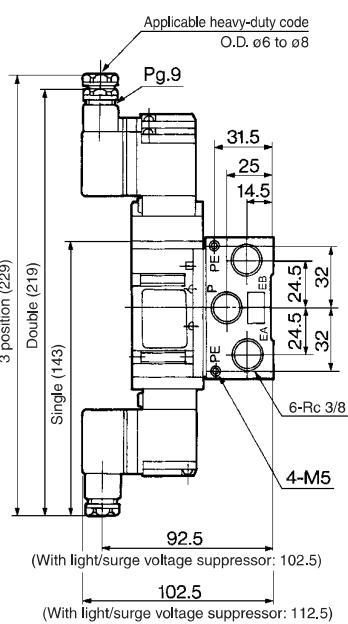


Formula for manifold weight $M = 0.12n + 0.21$ (kg) n: Station

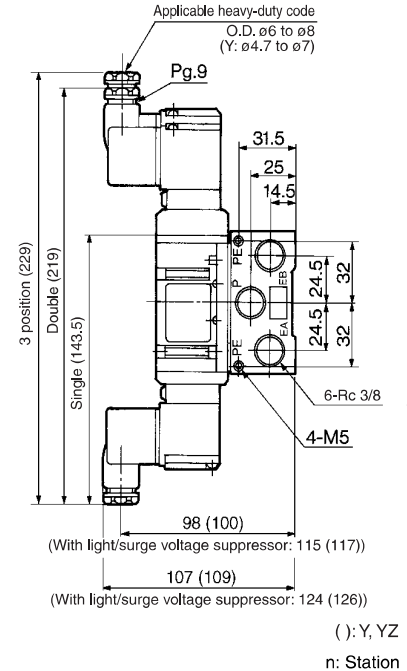
Grommet terminal: E/EZ



Conduit terminal: T/TZ



DIN terminal: D/DZ/Y/YZ



(): Y, YZ
n: Station

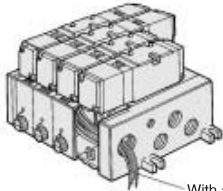
Stations	2	3	4	5	6	7	8	9	10	Formula
L ₁	62	87	112	137	162	187	212	237	262	L ₁ = 25 x n + 12
L ₂	92	117	142	167	192	217	242	267	292	L ₂ = 25 x n + 42

Series VFS2000

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.



With attachment plug lead wire

VV5FS2 - 01 - 06 1 - 01

Series VFS2000
Manifold

Plug-in type
With attachment plug lead wire

Stations	
02	2 stations
⋮	⋮
15	15 stations

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

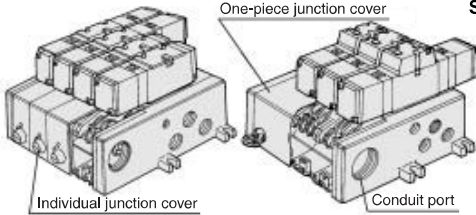
Thread type	
Nil	Rc
N*	NPT
T*	NPTF
F*	G

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

* Option
* 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.



Individual junction cover

One-piece junction cover

Conduit port

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
⋮	⋮
15	15 stations

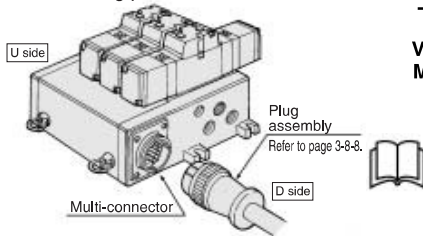
Symbol	Passage		Porting specifications A, B
	P	EA, EB	
1	Common	Common	Side
2*			Bottom
3*	Common	Individual	Side
4*			Bottom
5*	Individual	Common	Side
6*			Bottom
7*	Individual	Individual	Side
8*			Bottom

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

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

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

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



U side

Multi-connector

Plug assembly
Refer to page 3-8-8.



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

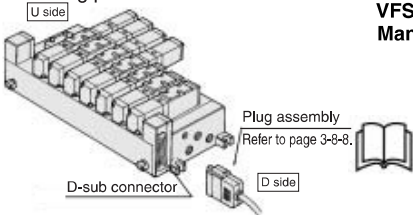
Thread type	
Nil	Rc
N*	NPT
T*	NPTF
F*	G

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

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

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

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



U side

D-sub connector

Plug assembly
Refer to page 3-8-8.



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

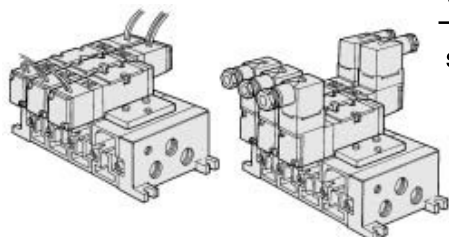
Thread type	
Nil	Rc
N*	NPT
T*	NPTF
F*	G

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

* Option
* 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
⋮	⋮
15	15 stations

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

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

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

* Option
* 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".

Series VFS2000

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	A, B		
Plug-in type VV5FS2-01□	<ul style="list-style-type: none"> • 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*	VFS2□00-□F	
Non plug-in type VV5FS2-10						<ul style="list-style-type: none"> • Grommet • Grommet terminal • Conduit terminal • DIN terminal 	VFS2□10-□G VFS2□10-□E VFS2□10-□T VFS2□10-□D

* With circular 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 [dm ³ /(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 [dm ³ /(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.

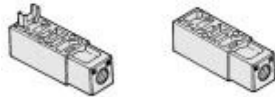
Body type	Plug-in type	Non plug-in type
Part no. Rc 1/8	VVFS2000-P-01-1	VVFS2000-P-01-2
Part no. Rc 1/4	VVFS2000-P-02-1	VVFS2000-P-02-2



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
Part no. Rc 1/4	VVFS2000-R-02-1	VVFS2000-R-02-2



SUP block disk

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

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

EXH block disk

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

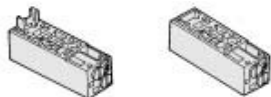
Body type	Plug-in type	Non plug-in type
Part no.	AXT625-12A	



Throttle valve spacer

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

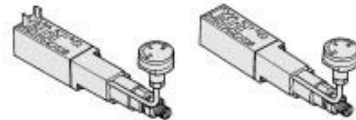
Body type	Plug-in type	Non plug-in type
Part no.	VVFS2000-20A-1	VVFS2000-20A-2



Interface regulator (P port regulation)

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

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



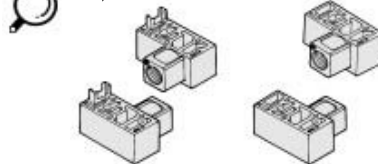
* Not mountable for standard type sub-plate.

Air release valve spacer

The concurrent use of air release valve spacer with VFS21□0 can release air.

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

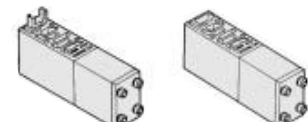
Note) L: U side mount R: D side mount



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

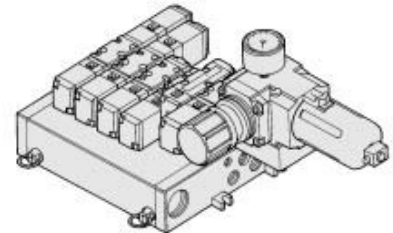
One pair of gasket and mounting thread is attached to every option parts assembly.

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.

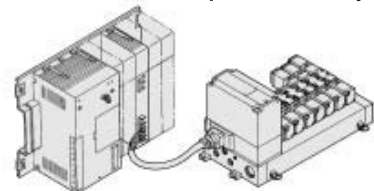


For details, refer to page 3-8-47.

With serial interface unit for serial transmission

Plug-in type

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

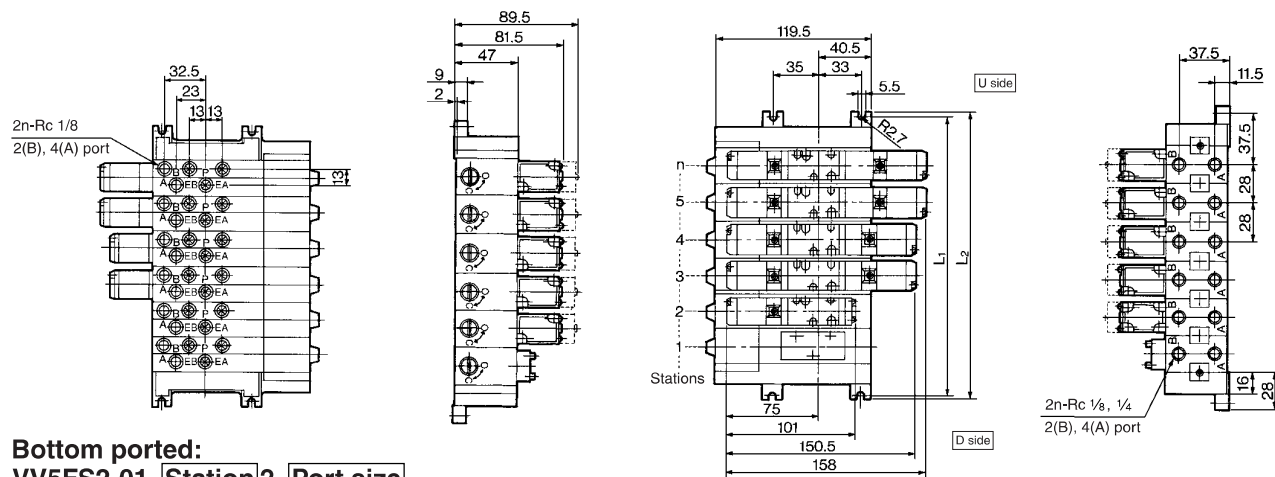


For details, refer to "Serial Transmission" catalog separately.

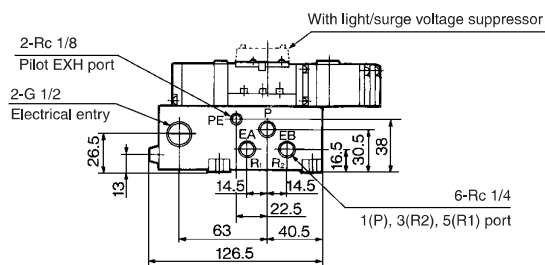
5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VFS2000

Manifold Plug-in type, Non plug-in type

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

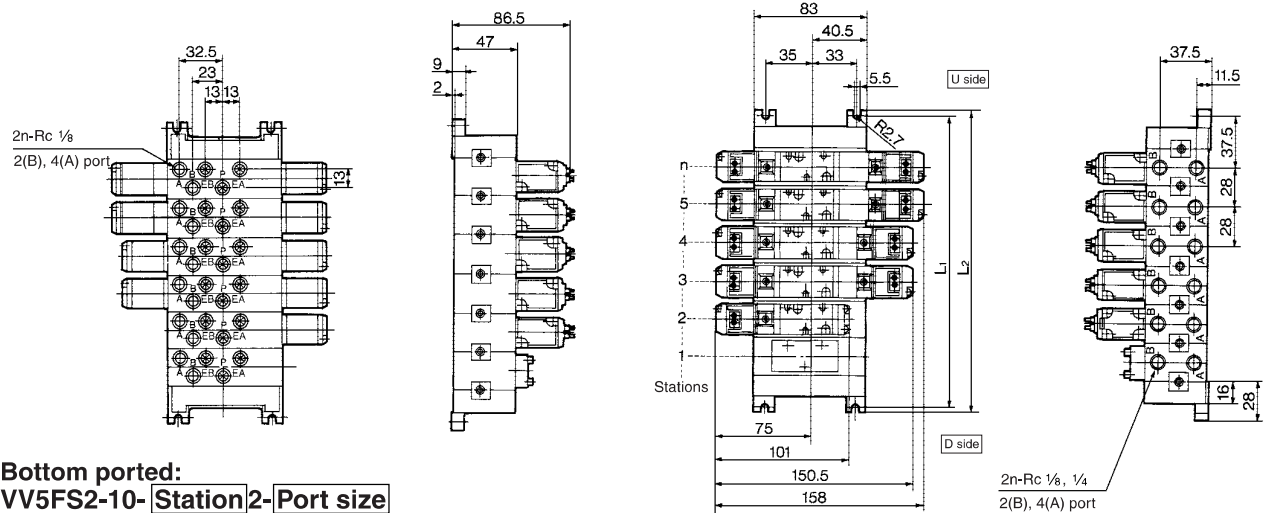


Bottom ported:
VV5FS2-01-Station 2-Port size

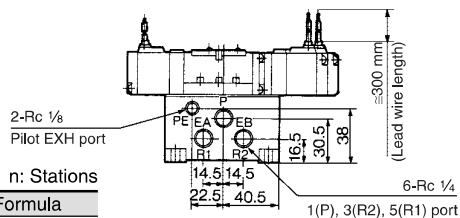


Formula for manifold weight $M = 0.201n + 0.299$ (kg) n: Station

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

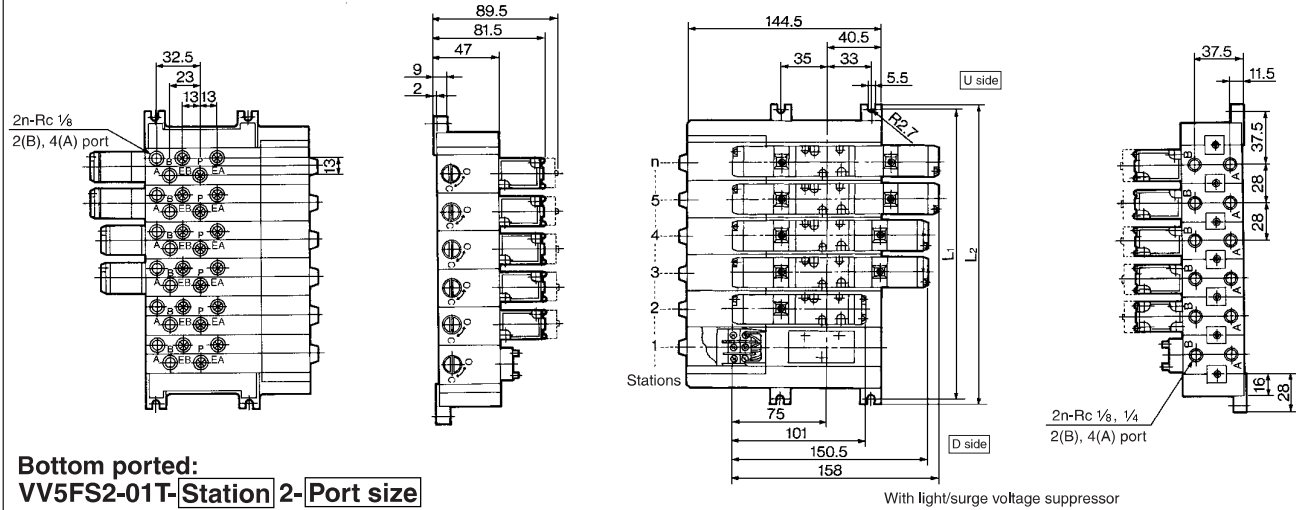
L	Stations	1	2	3	4	5	6	7	8	9	10	Formula
L ₁		75	103	131	159	187	215	243	271	299	327	$L_1 = 28 \times n + 47$
L ₂		84	112	140	168	196	224	252	280	308	336	$L_2 = 28 \times n + 56$

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

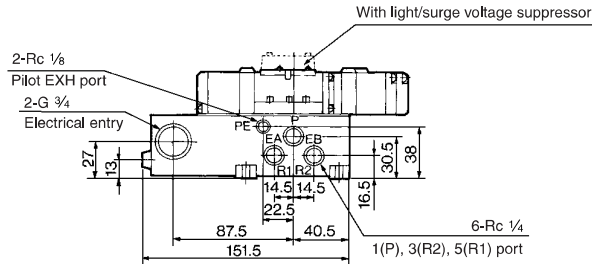
Series VFS2000

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

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

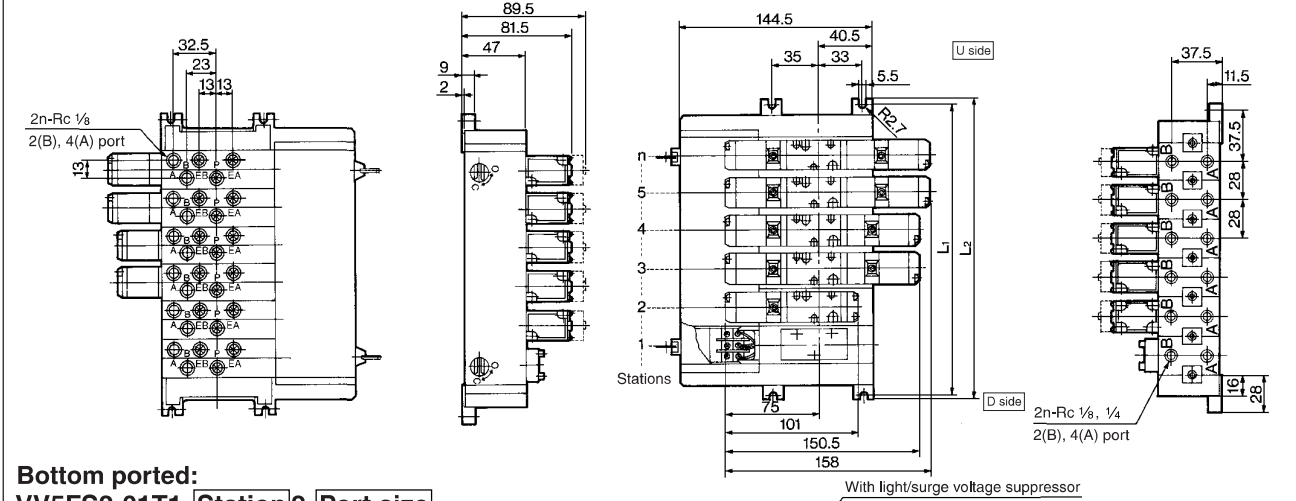


Bottom ported: VV5FS2-01T-Station 2-Port size

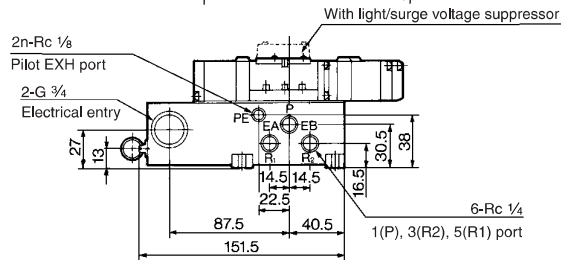


Formula for manifold weight $M = 0.215n + 0.35$ (kg) n: Station

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



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



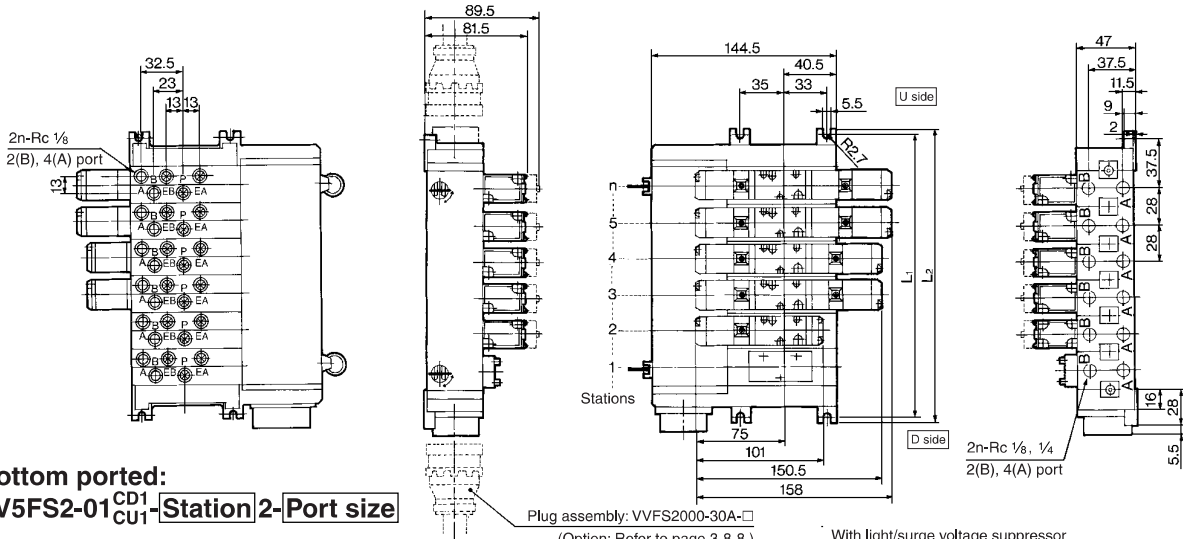
Formula for manifold weight $M = 0.236n + 0.354$ (kg) n: Station

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 x n + 47
L ₂	84	112	140	168	196	224	252	280	308	336	L ₂ = 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^{CD1}-Station 2-Port size
VV5FS2-01^{CU1}-Station 2-Port size

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

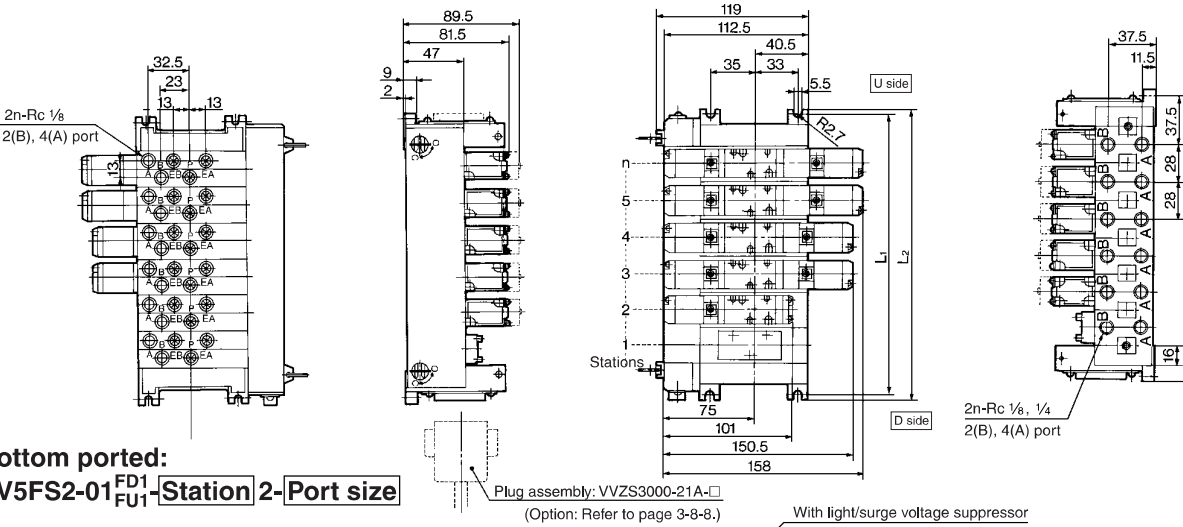
VS4

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^{FD1}-Station 2-Port size
VV5FS2-01^{FU1}-Station 2-Port size

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

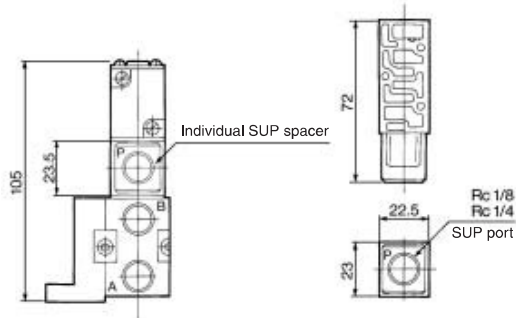


Stations	1	2	3	4	5	6	7	8	n: Stations	Formula
L ₁	75	103	131	159	187	215	243	271	L ₁ = 28 x n + 47	
L ₂	84	112	140	168	196	224	252	280	L ₂ = 28 x n + 56	

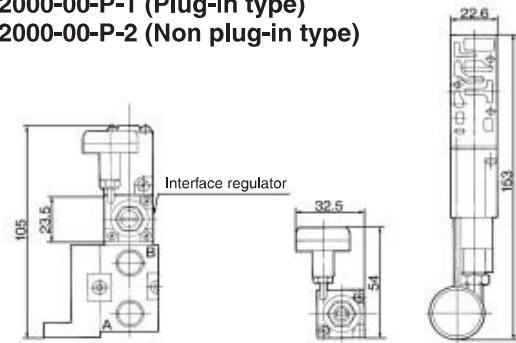
Series VFS2000

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

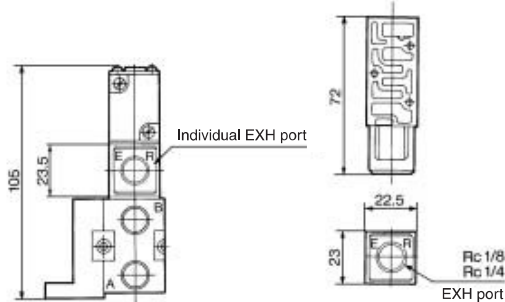
Individual SUP spacer:
 VVFS2000-P-01-1 (Plug-in type)
 VVFS2000-P-01-2 (Non plug-in type)



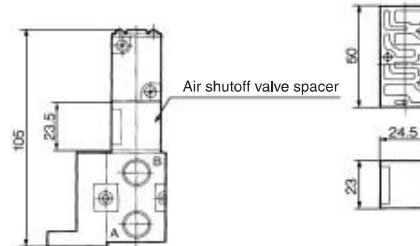
Interface regulator:
 ARBF2000-00-P-1 (Plug-in type)
 ARBF2000-00-P-2 (Non plug-in type)



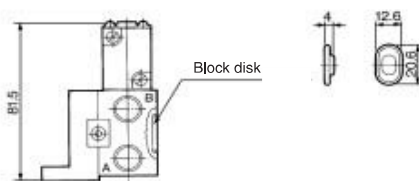
Individual EXH spacer:
 VVFS2000-R-01-1 (Plug-in type)
 VVFS2000-R-01-2 (Non plug-in type)



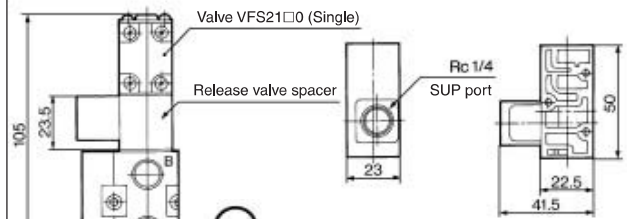
Air shutoff valve spacer:
 VVFS2000-21A-1 (Plug-in type)
 VVFS2000-21A-2 (Non plug-in type)



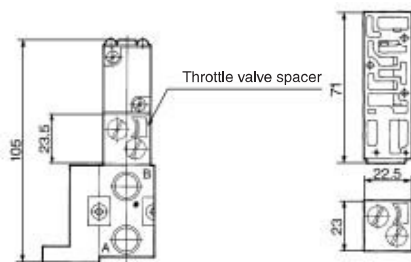
SUP block disk: AXT625-12A
EXH block disk: AXT625-12A



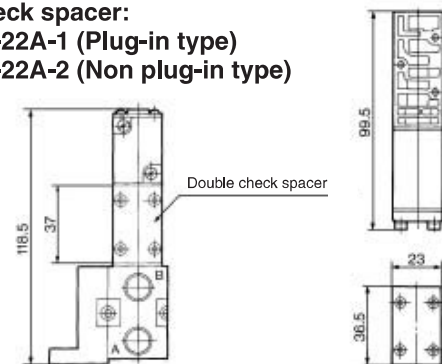
Release valve spacer:
 VVFS2000-24A-1^R (Plug-in type)
 VVFS2000-24A-2^R (Non plug-in type)



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)



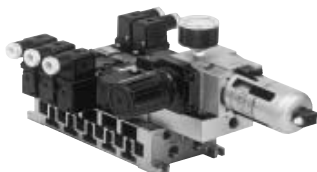
5 Port Pilot Operated Solenoid Valve Metal Seal, Plug-in/Non Plug-in Series VFS2000

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	Side: Rc 1/8, 1/4, Bottom: Rc 1/8 (Option)
Stations	1 (P), 3(R2), 5(R1) port	Side: Rc 1/4, 1/8, Bottom: Rc 1/8 (Option)
	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)	
Pressure switch ⁽³⁾	<Non plug-in type>	
	VVFS2000-24A-2R (D side mounting) VVFS2000-24A-2L (U side mounting)	
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

VV5FS2-10-08101-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		Porting specifications
	P	EA, EB	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

Note) 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".

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	Rc 1/8
02	1/4	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

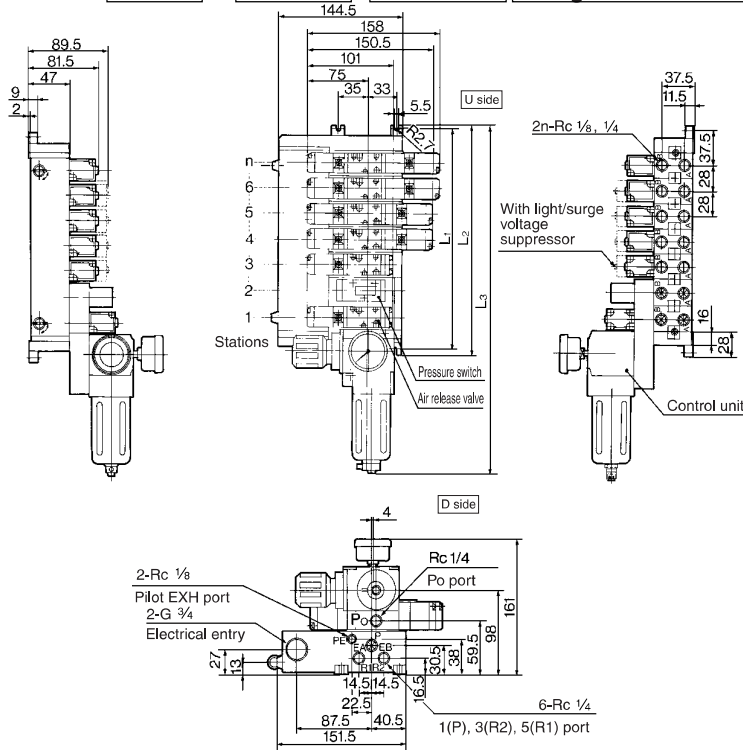
EVS

VFN

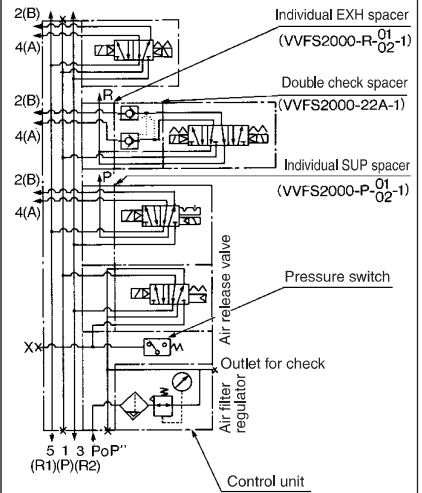
Series VFS2000

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

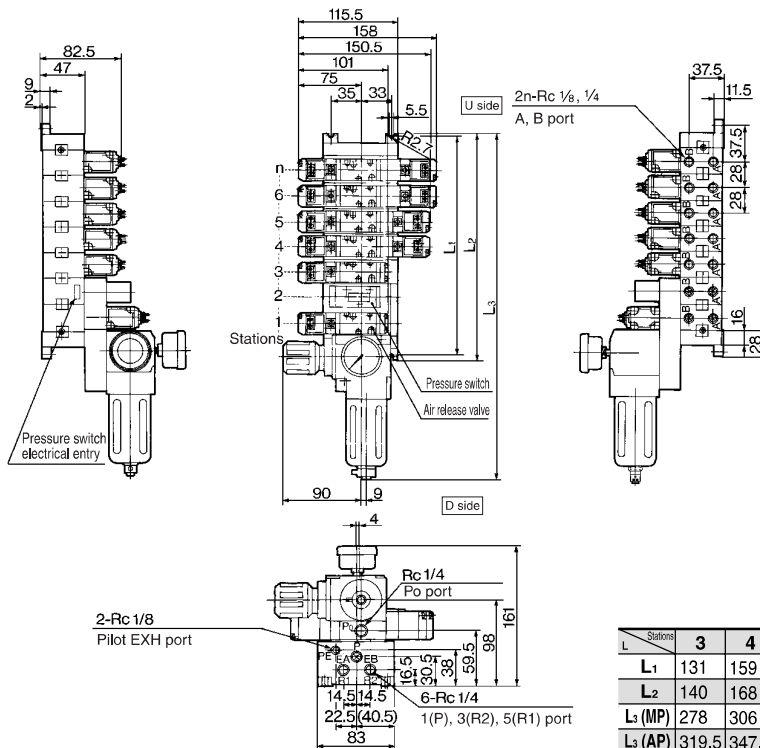
Plug-in type:
VV5FS2-01T-Station 1- Port size- Control unit Voltage for release valve



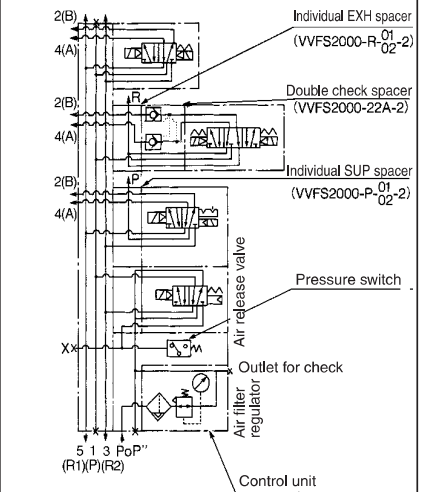
Example for manifold



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



Example for manifold



		n: Stations									
Stations		3	4	5	6	7	8	9	10	Formula	
L ₁		131	159	187	215	243	271	299	327	L ₁ = 28 x n + 47	
L ₂		140	168	196	224	252	280	308	336	L ₂ = 28 x n + 56	
L ₃ (MP)		278	306	334	362	390	418	446	474	L ₃ = 28 x n + 194	
L ₃ (AP)		319.5	347.5	375.5	403.5	431.5	459.5	487.5	515.5	L ₃ = 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	Common SUP, Common EXH	
	2(B), 4(A) port	Side: Rc 1/8, 1/4, Bottom: Rc 1/8 (Option)
Rc	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

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.

Stations

02	2 stations
:	:
15	15 stations

Symbol

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

* Option

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

How to order valves

VFS2 1 00 □ 5 F □ □ - X54

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

* Option

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

Option

Nil	None
Z	With light/surge voltage suppressor

Coil rated voltage

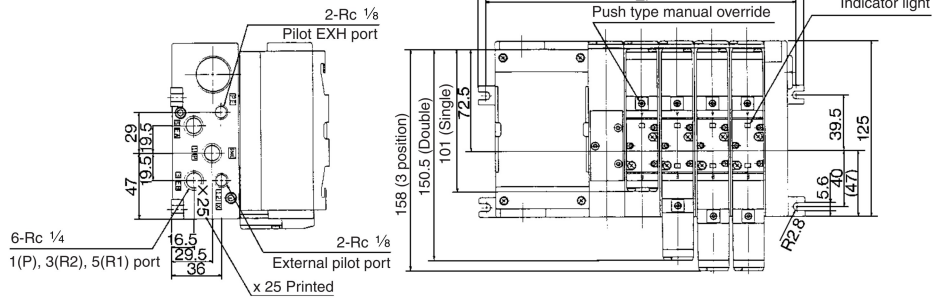
1	100 VAC, 50/60 Hz
2	200 VAC, 50/60 Hz
3*	110 to 120 VAC, 50/60 Hz
4*	220 VAC, 50/60 Hz
5	24 VDC
6*	12 VDC
7*	240 VAC, 50/60 Hz
9*	Other

* Option

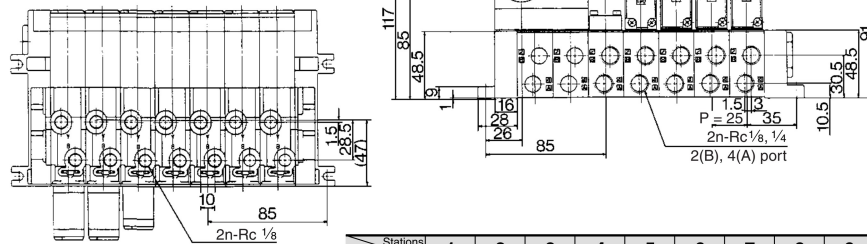
Series VFS2000

Dripproof Manifold

With common terminal box: VV5FS2-01WTB_D - Station 1- Port size



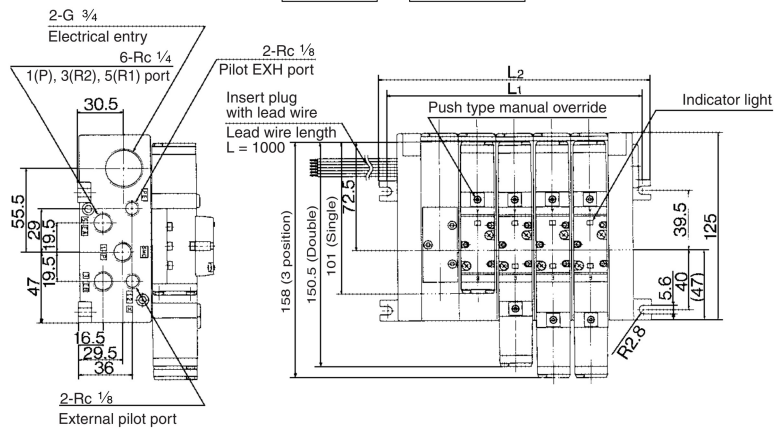
Bottom ported: VV5FS2-01WTBD - Station 2-01



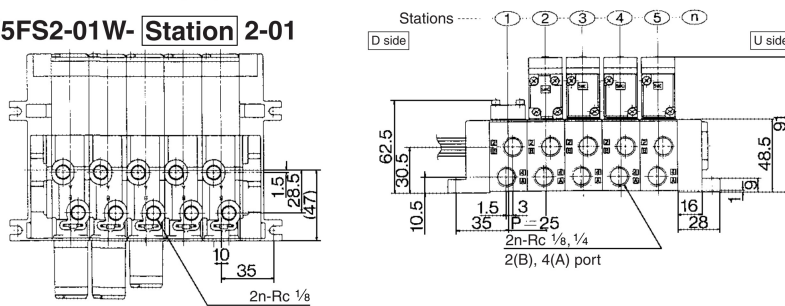
* Terminal mounting stations are not included. Indicates Solenoid valve mounting stations.

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 x n + 95
L ₂	131	156	181	206	231	256	281	306	331	356	L ₂ = 25 x n + 106

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



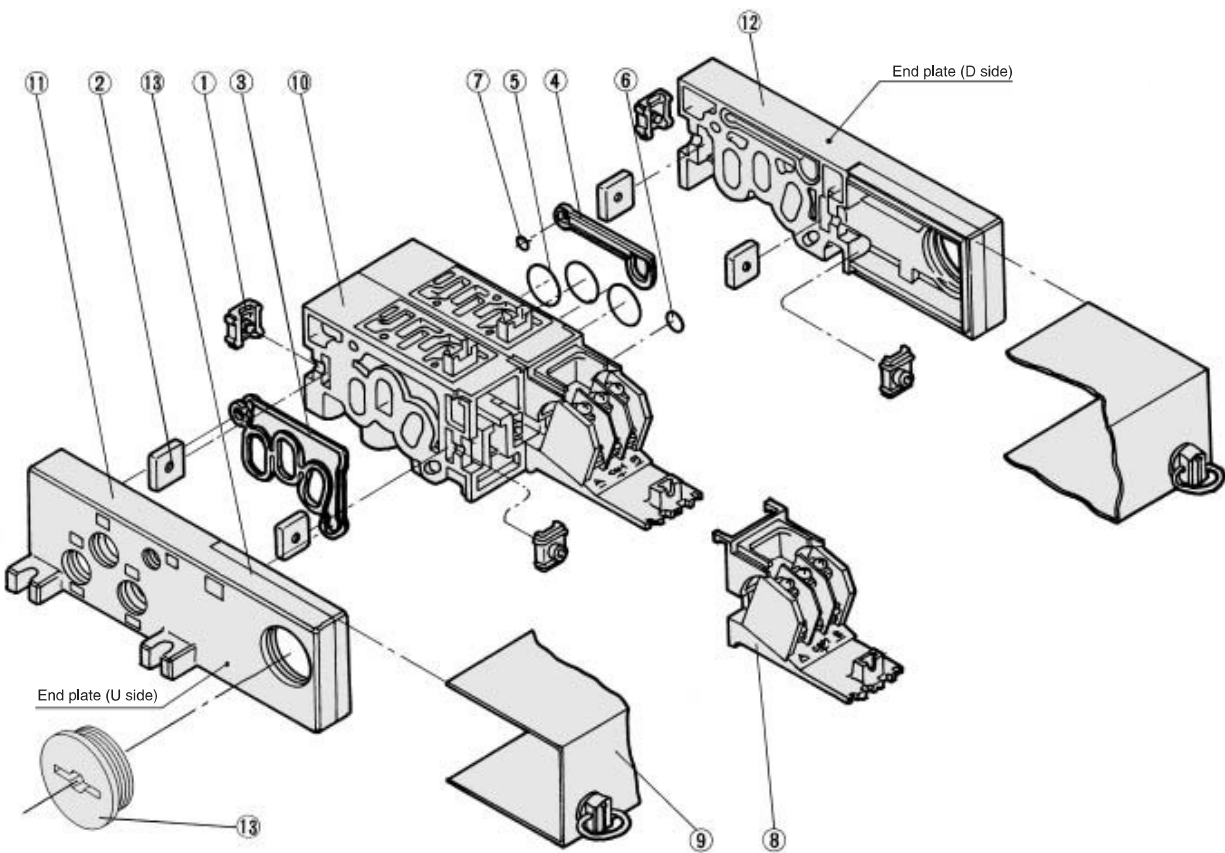
Bottom ported: VV5FS2-01W - Station 2-01



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

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

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



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

Replacement Parts

No.	Description	Material	Part no.
①	Connection fitting A	Steel plate	AXT625-4-1
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
		—	For 01T1 (Terminal section with adapter plate)
		—	For 01C AXT625-28-1
Adapter plate	Resin	For 01F VVF2000-26-6	
			For 01SU 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 AXT625-28-1
			For 01F VVF2000-26-5A- [Stations]
⑬	Rubber plug	NBR	For 01SU AZ738-10A- [Stations]
			For 01 AXT333-12
			For 01T AXT625-22
			For 01W 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.

Replacement Parts: Sub Assembly

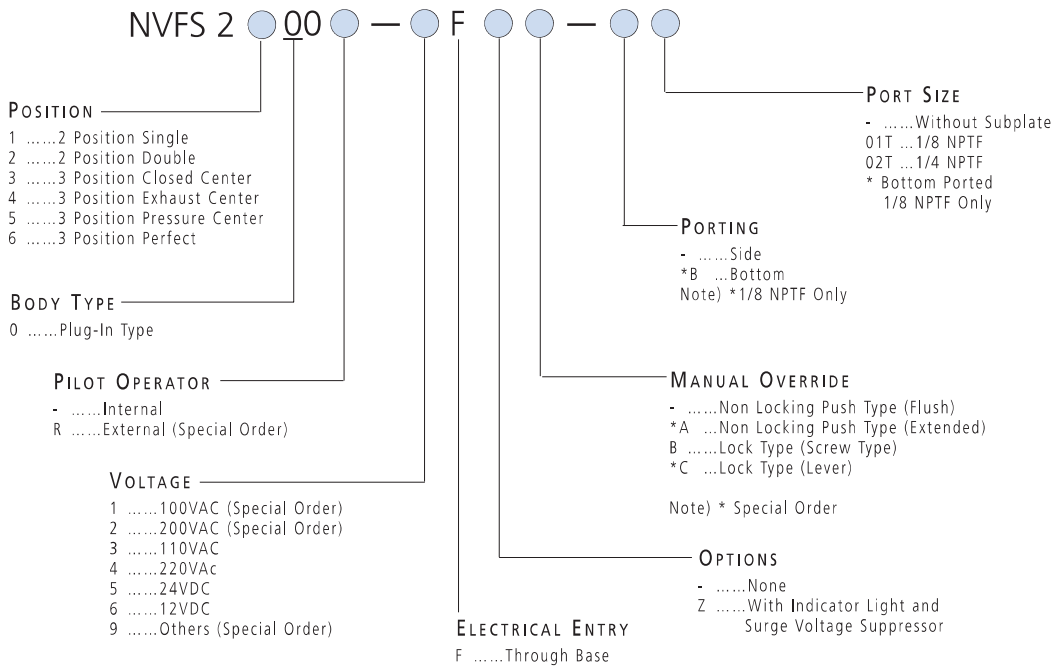


Note) Manifold Base/Construction: Plug-in type with terminal block.

No.	Description	Assembly part no.	Component parts	Applicable manifold base
⑩	Manifold block assembly	AXT625-01A- 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- ¹ / ₂ ^{Note)}	Manifold block ⑩, Metal joint ①, ②, O-ring ⑤, ⑥, ⑦ Terminal ⑧, Junction cover ⑨, Adapter plate, Pin housing, Guide	Plug-in type With terminal block
		AXT625-10A- 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) A, B ports: 1/8, 1/4

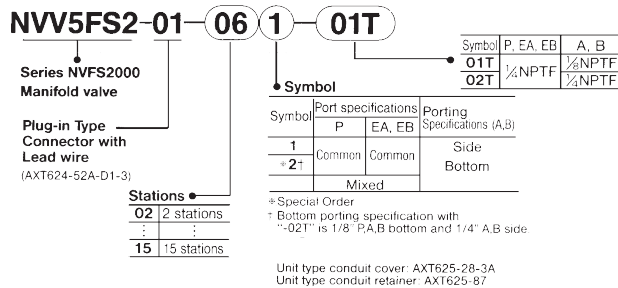
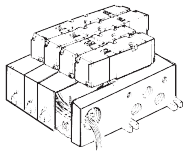
HOW TO ORDER NVFS2000



HOW TO ORDER MANIFOLD

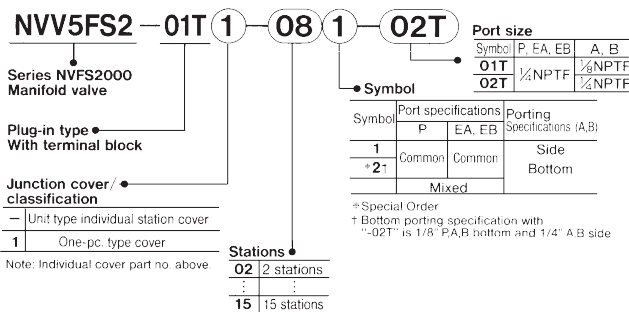
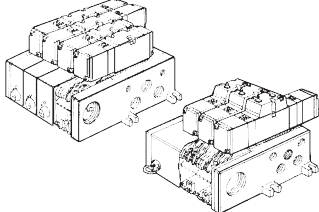
Plug in Type: Connector with Lead Wire ("wire harness")

● The insert plug is attached to the manifold block and is connected with valve side. Connect leads with corresponding power supply.



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.



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N233

**HOW TO
ORDER**

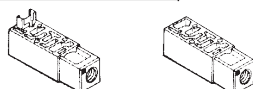
MANIFOLD / OPTION PARTS ASSEMBLY

Manifold /Option Parts Ass'y

SUP Relocation spacer

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

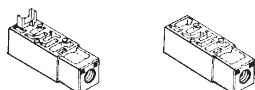
Body type	Plug-in type
Part No. $\frac{1}{8}$ NPTF	NVFS2000-P-01T-1
$\frac{1}{4}$ NPTF	NVFS2000-P-02T-1



EXH Relocation spacer

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

Body type	Plug-in type
Part No. $\frac{1}{8}$ NPTF	NVFS2000-R-01T-1
$\frac{1}{4}$ NPTF	NVFS2000-R-02T-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.	AXT625-12A

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 isolate valve exhaust.

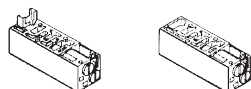
Body type	Plug-in type
Part No.	AXT625-12A



Interface speed control

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

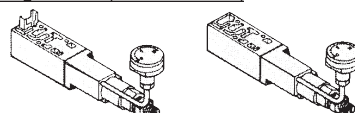
Body type	Plug-in type
Part No.	NVFS2000-20A-1 NVFS2000-20A-2



Interface regulator

Spacer type regulator on manifold block controls supply pressure to the valve. With standard gauge.

Body type	Plug-in type
Pressure Regulation P	NARBF2000-00-P-1

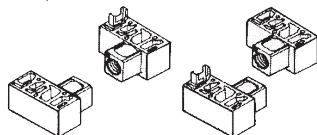


Air Shutoff valve spacer

The concurrent use of air shutoff valve spacer with NVFS2100 controls supply of air pressure to the manifold (3-way dump valve). Specify location in **first (L)** or **last (R)** station of manifold.

Body type	Plug-in type
Part No.	NVFS2000-24A-1 L R

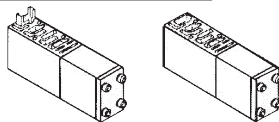
Note) L: U side mount R: D side mount



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 the air leakage across spool seals.

Body type	Plug-in type
Part No.	NVFS2000-22A-1



Blank plate

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

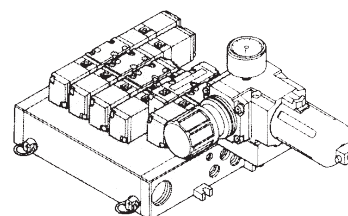
Body type	Plug-in type
Part No.	VVFS2000-10A

Manifold /Option

Control Unit

Plug-in type

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



For more information,
Please refer to catalog N233



FOR FURTHER TECHNICAL
DETAILS ON THIS
PRODUCT, REQUEST
CATALOG REFERENCE
N233