

5 Port Air Operated Valve

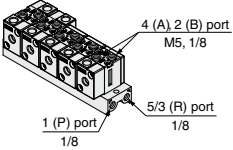
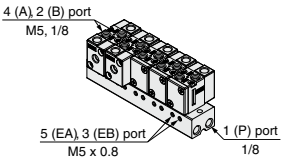
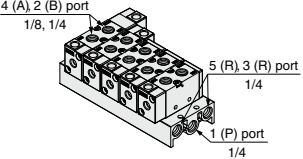
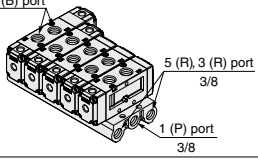
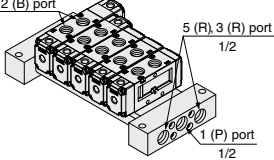
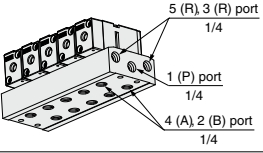
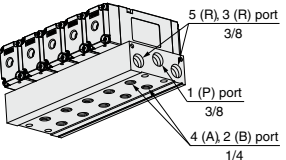
Series VFA1000/3000/5000

RoHS



Model Selection by Operating Conditions ②

Air Operated Valve: Manifold

Series		EXH port type	Manifold base model	Applicable valve model	Applicable stations
Body ported	VFA1000	Common EXH	VV5FA1-30 	VFA1□30	2 to 20 stations
		Individual EXH	VV5FA1-31 		
	VFA3000	Common EXH	VV5FA3-30 	VFA3□30	2 to 20 stations
	VFA5000	Common EXH	VV5FA5-20 	VFA5□20	2 to 10 stations
Base mounted		Common EXH	VV5FA5-21 		2 to 15 stations
	VFA3000	Common EXH	VV5FA3-40 	VFA3□40	2 to 20 stations
	VFA5000	Common EXH	VV5FA5-40 	VFA5□44	2 to 10 stations

Body Ported

5 Port Air Operated Valve

Series VFA1000/3000/5000

Single Unit

RoHS

How to Order Valve

Body ported VFA 3 1 3 0 - 01 - - -

Series

1	VFA1000
3	VFA3000
5	VFA5000

Type of actuation

1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

* Only 1 and 2 are available with the VFA1000.

Body model

Symbol	VFA1000	VFA3000	VFA5000
2	○	—	○
3	—	○	—

A, B port size

Symbol	Port size	VFA1000	VFA3000	VFA5000
M5	M5 x 0.8	○	—	—
01	1/8	○	○	—
02	1/4	—	○	○
03	3/8	—	—	○

Thread type (Including pilot port)

Nil	Rc
F	G
N	NPT
T	NPTF

* M5 is available with Nil only.

Pilot port direction

Nil: Upward	P: Lateral

Bracket

Nil	Without bracket
F	With bracket
VFA1000, 3000 Single type (The bracket cannot be connected after delivered.)	
VFA1000 Double type only	

* Not available with the VFA5000.

Specifications



Series VFA1000



Series VFA3000



Series VFA5000

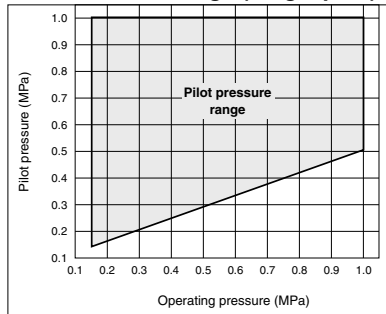
Model		VFA1000	VFA3000	VFA5000
Fluid		Air		
Operating pressure range (MPa)	2 position single	0.15 to 1.0		
	2 position double/3 position ^{Note 2)}	-101.2 kPa to 1.0		
Pilot pressure range (MPa)	2 position single	(0.4 x P + 0.1) to 1.0, P: Operating pressure		
	2 position double	0.1 to 1.0		
	3 position	0.15 to 1.0		
Ambient and fluid temperature (°C)		-10 to 50 (No freezing)		
Lubrication		Not required		
Mounting orientation		Free		
Impact/Vibration resistance (m/s ²) ^{Note 1)}		300/50		

Note 1) Impact resistance: No malfunction to axis and right angle directions of main valve, each one time when pilot signal ON and OFF. (Values at the initial period)

Vibration resistance: No malfunction from test with 45 to 2000 Hz one sweep, to axis and right angle direction of main valve, each one time when pilot signal ON and OFF. (Values at the initial period)

Note 2) Except VFA1000

Pilot Pressure Range (Single pilot)



Series VFA1000/3000/5000

Flow-rate Characteristics/Weights

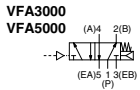
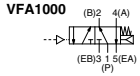
Valve model	Type of actuation		Port size		Flow-rate characteristics ^{Note 1)}						Weight (g) ^{Note 2)}
			1, 4, 2 (P, A, B)	5, 3 (EA, EB)	1→4/2 (P→A/B)			4/2→5/3 (A/B→EA/EB)			
					C[dm³/ (s/bar)]	b	Cv	C[dm³/ (s/bar)]	b	Cv	
VFA1□20-M5	2 position	Single	M5 x 0.8		0.49	0.40	0.13	0.52	0.35	0.13	97
		Double			0.49	0.40	0.13	0.52	0.35	0.13	120
VFA1□20-01	2 position	Single	1/8	M5 x 0.8	0.76	0.22	0.17	0.53	0.28	0.13	93
		Double			0.76	0.22	0.17	0.53	0.28	0.13	116
VFA3□30-01	2 position	Single	1/8		3.0	0.38	0.78	2.8	0.30	0.67	135
		Double			3.0	0.38	0.78	2.8	0.30	0.67	158
	3 position	Closed center			2.4	0.31	0.64	1.8	0.37	0.46	175
		Exhaust center			2.6	0.37	0.70	3.0 [2.5]	0.32 [0.28]	0.76 [0.62]	
		Pressure center			3.0 [1.4]	0.42 [0.44]	0.83 [0.39]	2.4	0.27	0.59	
VFA3□30-02	2 position	Single	1/4	1/8	4.0	0.36	1.0	3.1	0.32	0.75	131
		Double			4.0	0.36	1.0	3.1	0.32	0.75	154
	3 position	Closed center			2.4	0.45	0.68	1.9	0.37	0.47	171
		Exhaust center			3.0	0.42	0.82	3.1 [2.7]	0.36 [0.29]	0.79 [0.66]	
		Pressure center			5.5 [1.4]	0.37 [0.50]	1.4 [0.40]	2.6	0.32	0.64	
VFA5□20-02	2 position	Single	1/4		7.1	0.46	1.9	7.7	0.51	2.2	294
		Double			7.1	0.46	1.9	7.7	0.51	2.2	329
	3 position	Closed center			6.7	0.46	1.8	6.6	0.41	1.8	368
		Exhaust center			7.1	0.42	1.9	8.0 [7.4]	0.45 [0.47]	2.2 [2.1]	
		Pressure center			6.8 [2.7]	0.51 [0.50]	2.0 [0.78]	5.7	0.37	1.4	
VFA5□20-03	2 position	Single	3/8		8.8	0.44	2.4	10.0	0.49	2.9	280
		Double			8.8	0.44	2.4	10.0	0.49	2.9	315
	3 position	Closed center			7.5	0.43	2.0	7.5	0.38	1.9	354
		Exhaust center			8.3	0.40	2.2	10.0 [8.7]	0.48 [0.46]	3.0 [2.4]	
		Pressure center			9.2 [3.0]	0.50 [0.49]	2.6 [0.85]	6.1	0.35	1.6	

Note 1) [] : Normal position
 Note 2) Values without bracket

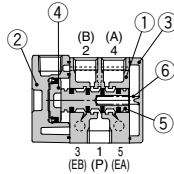
Construction: Body Ported

2 position single

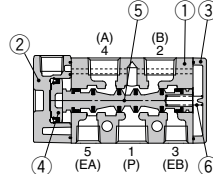
Symbol
2 position single



VFA1000

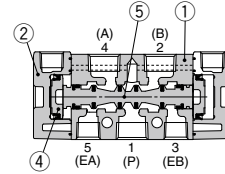
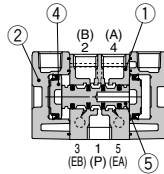
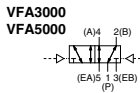
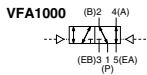


VFA3000, 5000



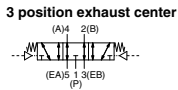
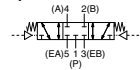
2 position double

Symbol
2 position double



3 position closed center/exhaust center/pressure center

Symbol
3 position closed center



3 position exhaust center

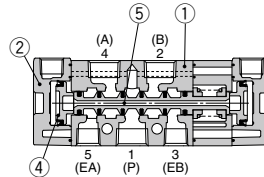


Component Parts

No.	Description	Material	Note
1	Body	Aluminum die-casted	White
2	Pilot plate	Aluminum die-casted	Gray
3	End plate	Resin (VFA3130-F: Aluminum die-casted) VFA1120-F: Aluminum die-casted)	White
4	Piston	Resin	
5	Spool valve	Aluminum, HNBR	
6	Spring	Stainless steel	

Bracket Assembly Part No.

Description	Part no.
Bracket (for VFA1000 double)	DXT144-8-1A (With 2 mounting screws)

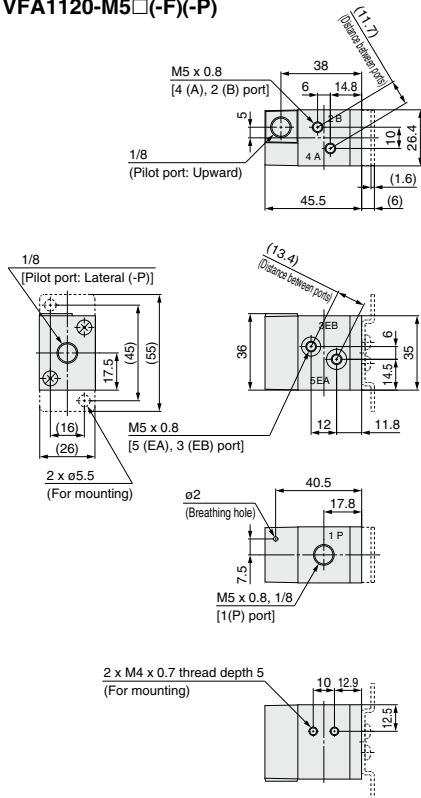


(Drawing shows a closed center type.)

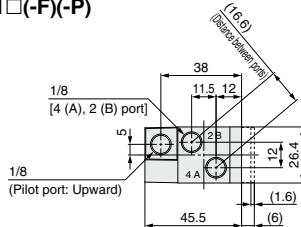
Series VFA1000/3000/5000

Dimensions: Series VFA1000/Body Ported

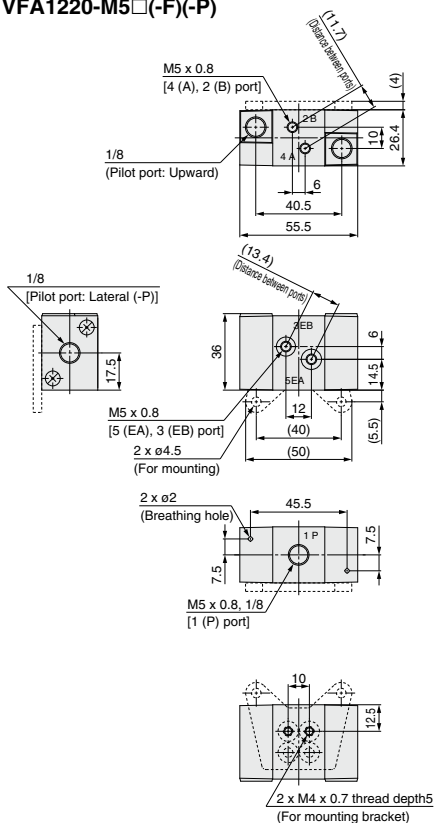
2 position single VFA1120-M5□(-F)(-P)



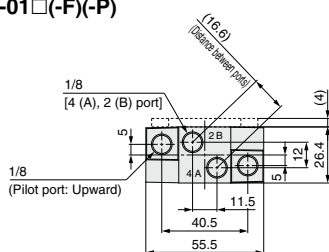
VFA1120-01□(-F)(-P)



2 position double VFA1220-M5□(-F)(-P)



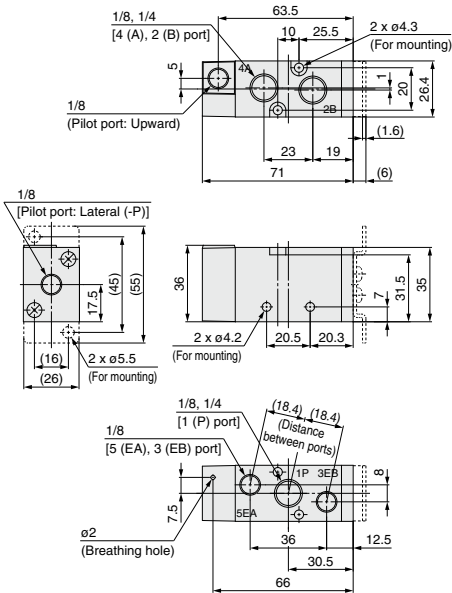
VFA1220-01□(-F)(-P)



Dimensions: Series VFA3000/Body Ported

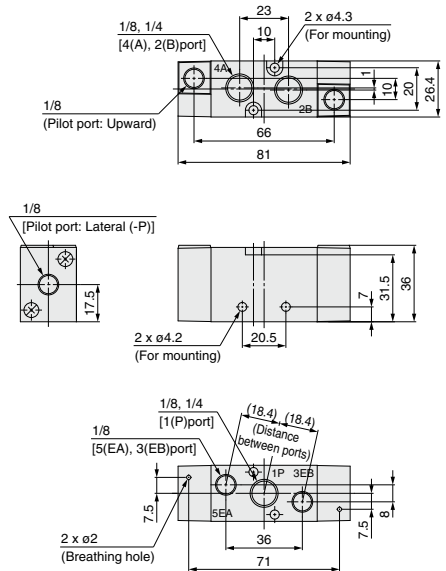
2 position single

VFA3130-01□(-F)(-P)



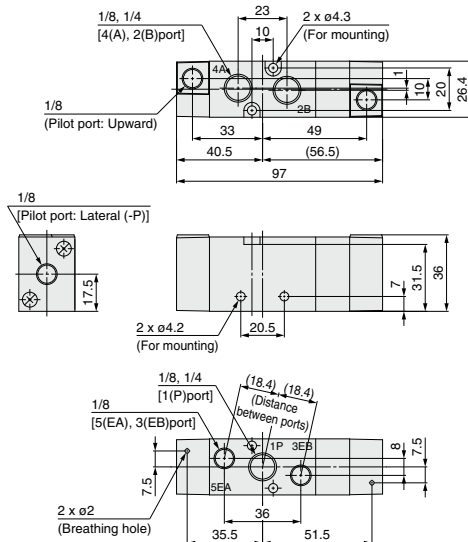
2 position double

VFA3230-01□(-P)



3 position closed center/exhaust center/pressure center

VFA3³₅430-01□(-P)

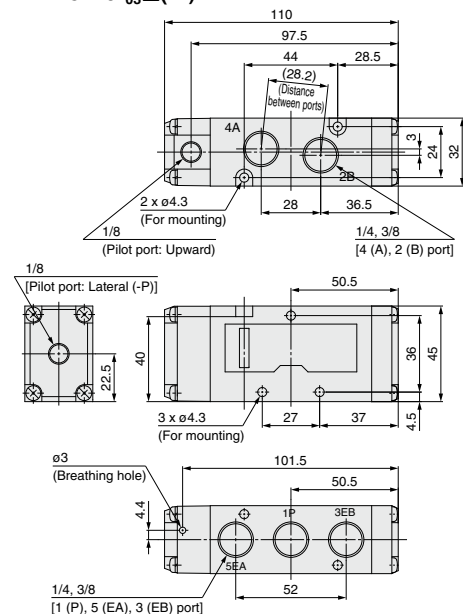


Series VFA1000/3000/5000

Dimensions: Series VFA5000/Body Ported

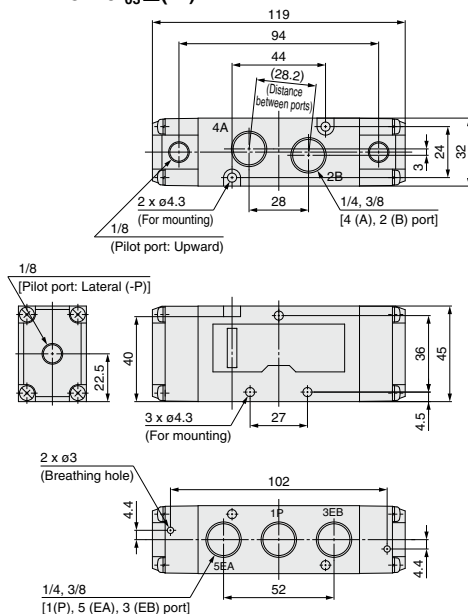
2 position single

VFA5120-02⁰²₀₃□(-P)



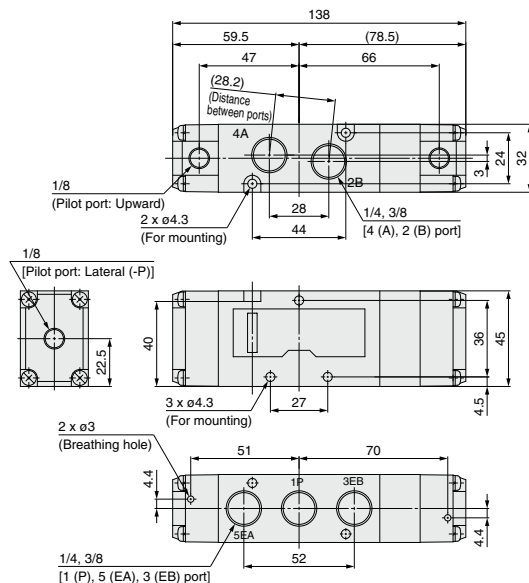
2 position double

VFA5220-02⁰²₀₃□(-P)



3 position closed center/exhaust center/pressure center

VFA5³₅420-02⁰²₀₃□(-P)



5 Port Air Operated Valve

Series VFA3000/5000

Single Unit

Base Mounted

RoHS

How to Order Valve

Base mounted
(VFA1000: Not available)

VFA 3 1 4 0 - 02 - -

Series

3	VFA3000
5	VFA5000

* Not available with the VFA1000.

Type of actuation

1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

Body model

Body option

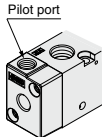
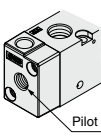
Symbol	VFA3000	VFA5000
0	○	—
4	—	○

Port size (Sub-plate)

Symbol	Port size	VFA3000	VFA5000
Nil	Without sub-plate (Pilot port: Rc)		
00	Without sub-plate (Pilot port: Other than Rc)		
02	1/4	○	○
03	3/8	○	○
04	1/2	—	○

* Without the sub-plate, two mounting screws and a gasket are included.

Pilot port direction

Nil: Upward	P: Lateral
	

Thread type (Including pilot port)

Nil	Rc
F	G
N	NPT
T	NPTF

Specifications



Series VFA3000



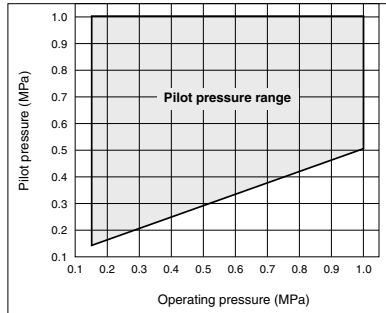
Series VFA5000

Model		VFA3000	VFA5000
Fluid		Air	
Operating pressure range (MPa)	2 position single	0.15 to 1.0	
	2 position double/3 position	-101.2 kPa to 1.0	
Pilot pressure range (MPa)	2 position single	(0.4 x P + 0.1) to 1.0, P: Operating pressure	
	2 position double	0.1 to 1.0	
	3 position	0.15 to 1.0	
Ambient and fluid temperature (°C)		-10 to 50 (No freezing)	
Lubrication		Not required	
Mounting orientation		Free	
Impact/Vibration resistance (m/s ²) Note 1)		300/50	

Note 1) Impact resistance: No malfunction to axis and right angle directions of main valve, each one time when pilot signal ON and OFF. (Values at the initial period)

Vibration resistance: No malfunction from test with 45 to 2000 Hz one sweep, to axis and right angle direction of main valve, each one time when pilot signal ON and OFF. (Values at the initial period)

Pilot Pressure Range (Single pilot)



Flow-rate Characteristics/Weights

Valve model	Type of actuation		Port size	Flow-rate characteristics ^{Note 1)}						Weight (g) ^{Note 2)}
				1→4/2 (P→A/B)			4/2→5/3 (A/B→EA/EB)			
				C [dm³/ (s/bar)]	b	Cv	C [dm³/ (s/bar)]	b	Cv	
VFA3□40-02	2 position	Single	1/4	2.8	0.14	0.64	2.5	0.18	0.57	295 (143)
		Double		2.8	0.14	0.64	2.5	0.18	0.57	318 (166)
	3 position	Closed center		2.1	0.22	0.49	1.6	0.26	0.41	335 (183)
		Exhaust center		2.3	0.21	0.53	2.8 [2.1]	0.23 [0.26]	0.66 [0.50]	
		Pressure center		2.9 [1.1]	0.16 [0.45]	0.67 [0.32]	2.1	0.23	0.49	
VFA3□40-03	2 position	Single	3/8	3.1	0.24	0.76	2.6	0.23	0.62	278 (143)
		Double		3.1	0.24	0.76	2.6	0.23	0.62	301 (166)
	3 position	Closed center		2.2	0.33	0.57	1.6	0.34	0.40	318 (183)
		Exhaust center		2.6	0.27	0.61	2.8 [2.3]	0.30 [0.28]	0.68 [0.55]	
		Pressure center		3.4 [1.3]	0.29 [0.48]	0.80 [0.38]	2.2	0.31	0.52	
VFA5□44-02	2 position	Single	1/4	7.3	0.49	2.1	7.3	0.50	2.0	467 (278)
		Double		7.3	0.49	2.1	7.3	0.50	2.0	502 (313)
	3 position	Closed center		6.6	0.35	1.7	6.3	0.31	1.6	541 (352)
		Exhaust center		7.4	0.33	1.9	8.1 [7.4]	0.35 [0.34]	2.1 [1.9]	
		Pressure center		8.0 [2.9]	0.35 [0.48]	2.1 [0.85]	5.6	0.31	1.5	
VFA5□44-03	2 position	Single	3/8	8.4	0.34	2.2	8.9	0.29	2.3	454 (278)
		Double		8.4	0.34	2.2	8.9	0.29	2.3	489 (313)
	3 position	Closed center		7.3	0.34	2.0	7.1	0.28	1.8	528 (352)
		Exhaust center		8.1	0.27	2.0	14.0 [8.3]	0.26 [0.31]	3.4 [2.2]	
		Pressure center		8.1 [2.5]	0.33 [0.48]	2.0 [0.74]	5.7	0.31	1.4	
VFA5□44-04	2 position	Single	1/2	9.4	0.43	2.7	12.0	0.32	3.0	526 (278)
		Double		9.4	0.43	2.7	12.0	0.32	3.0	561 (313)
	3 position	Closed center		7.1	0.41	2.1	7.4	0.32	2.0	600 (352)
		Exhaust center		8.6	0.39	2.4	13.0 [8.9]	0.21 [0.40]	3.1 [2.5]	
		Pressure center		11.0 [2.6]	0.18 [0.47]	2.6 [0.78]	6.1	0.35	1.6	

Note 1) [] : Normal position

Note 2) () : Values without sub-plate

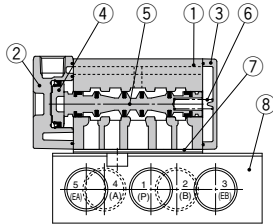
Construction: Base Mounted

VFA3000, 5000

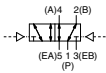
Symbol
2 position single



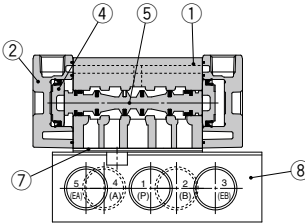
2 position single



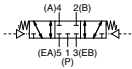
Symbol
2 position double



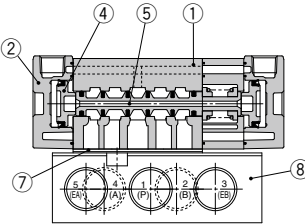
2 position double



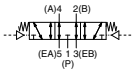
Symbol
3 position closed center



3 position closed center/exhaust center/pressure center



3 position exhaust center



3 position pressure center



(Drawing shows a closed center type.)

Sub-plate part no.

VF 3 000-71-1

Series

3	VFA3000
5	VFA5000

Thread type

N	Rc
F	G
N	NPT
T	NPTF

Port size

Symbol	Port size	VFA3000	VFA5000
1	1/4	○	○
2	3/8	○	○
3	1/2	—	○

Component Parts

No.	Description	Material	Note
1	Body	Aluminum die-casted	White
2	Pilot plate	Aluminum die-casted	Gray
3	End plate	Resin	White
4	Piston	Resin	
5	Spool valve	Aluminum, HNBR	
6	Spring	Stainless steel	

Replacement Parts

No.	Description	Part no.		Note
		VFA3000	VFA5000	
7	Gasket	DXT031-30-11	DXT156-9-8	HNBR
8	Sub-plate	1/4: VF3000-71-1□ 3/8: VF3000-71-2□	1/4: VF5000-71-1□ 3/8: VF5000-71-2□ 1/2: VF5000-71-3□	Aluminum die-casted
—	Round head combination screw (1 pc.)	DXT031-44-1 (M4 x 39.5, With spring washer)	—	For mounting valve
—	Hexagon socket head cap screw (1 pc.)	—	AXT620-32-1 (M4 x 48, With spring washer)	For mounting valve



Caution

**Tightening Torque
for Mounting Valve**

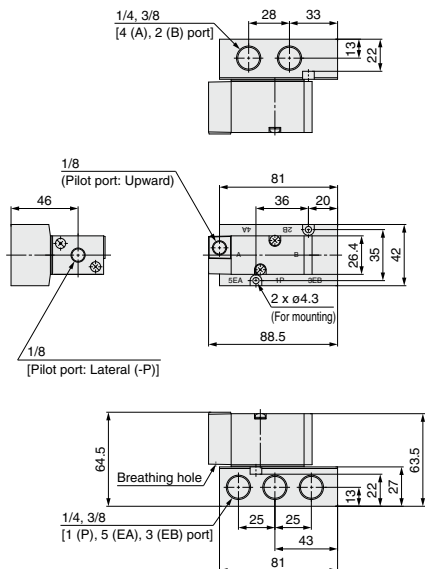
M4: 1.4 N·m

Series VFA3000/5000

Dimensions: Series VFA3000/Base Mounted

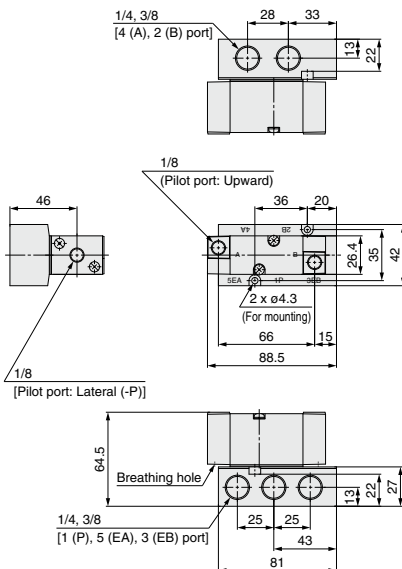
2 position single

VFA3140-⁰²₀₃□(-P)



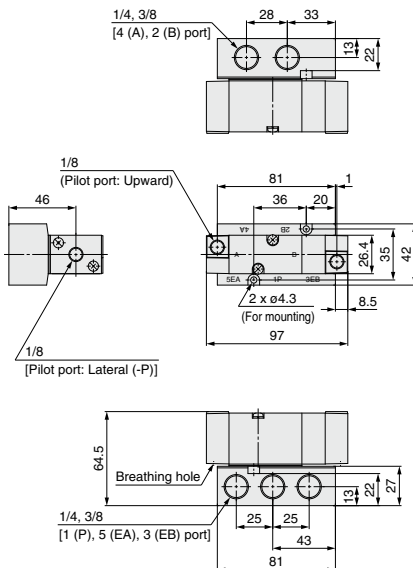
2 position double

VFA3240-⁰²₀₃□(-P)



3 position closed center/exhaust center/pressure center

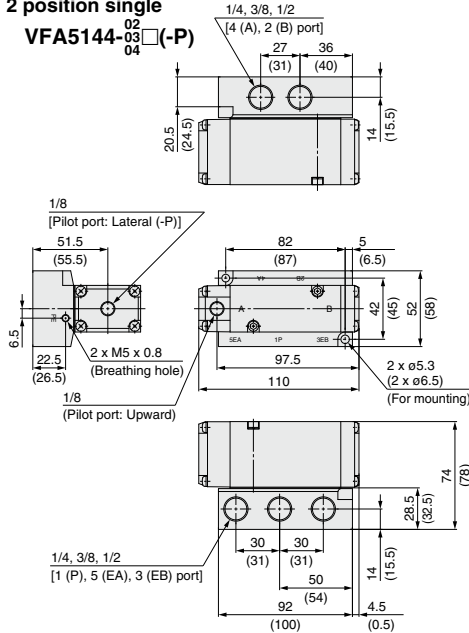
VFA3³₄40-⁰²₀₃□(-P)



Dimensions: Series VFA5000/Base Mounted

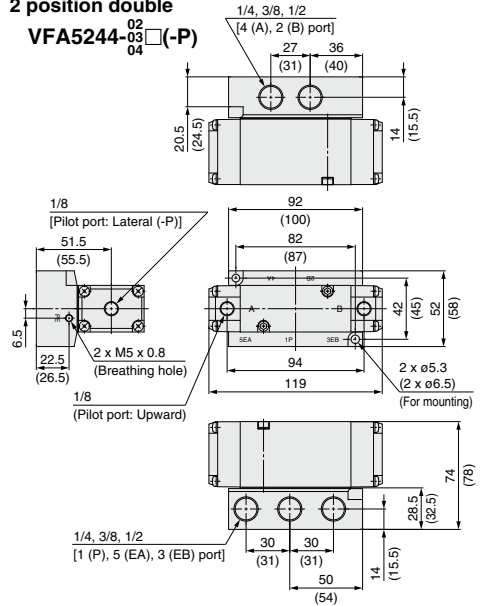
2 position single

VFA5144-03□(-P)



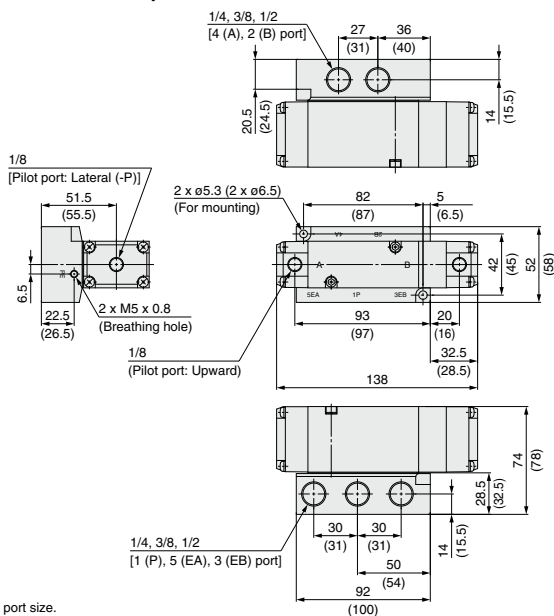
2 position double

VFA5244-03□(-P)



3 position closed center/exhaust center/pressure center

VFA544-03□(-P)



The dimensions in () are for 1/2 piping port size.

Body Ported

5 Port Air Operated Valve

Series VFA1000/3000/5000

Manifold

How to Order Manifold

Common exhaust

VV5FA 1 - 30 - 04 1 -

Series

1	VFA1000
3	VFA3000
5	VFA5000

Manifold model

Symbol	P, R Port size	VFA1000	VFA3000	VFA5000
30	1/8	○	—	—
	1/4	—	○	—
20	3/8	—	—	○
21	1/2	—	—	○

* The A and B ports are made on the top.

Thread type

Nil	Rc
00F	G
00N	NPT
00T	NPTF

Stations

02	2 stations
⋮	⋮
20	20 stations

* Up to 10 stations for VV5FA5-20, and up to 15 stations for VV5FA5-21.

Individual exhaust
(VFA1000 only)

VV5FA1 - 31 - 04 3 -

Manifold model

Symbol	P, R Port size	EA, EB Port size
31	1/8	M5

Stations

02	2 stations
⋮	⋮
20	20 stations

Thread type

Nil	Rc
00F	G
00N	NPT
00T	NPTF

How to Order Valve

Note) When placing an order for body ported valve as a single unit, mounting screws for manifold and gasket are not attached. Order them separately, if necessary. (Refer to page 2213-20 for details.)

VFA 3 1 3 0 - 01 -

Series

1	VFA1000
3	VFA3000
5	VFA5000

Type of actuation

1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

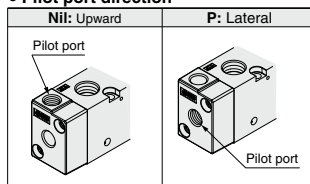
* Only 1 and 2 are available with the VFA1000.

Body model

Symbol	VFA1000	VFA3000	VFA5000
2	—	—	○
3	○ Note)	○	—

Note) Manifold only

Pilot port direction



Thread type
(Including pilot port)

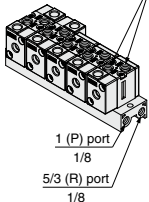
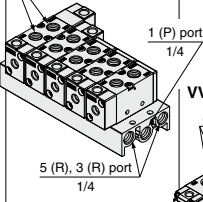
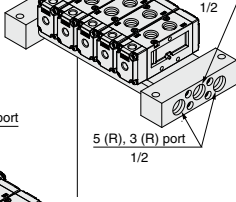
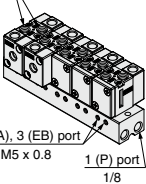
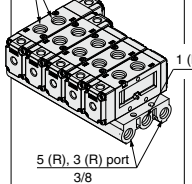
Nil	Rc
F	G
N	NPT
T	NPTF

* M5 is available with Nil only.

A, B port size

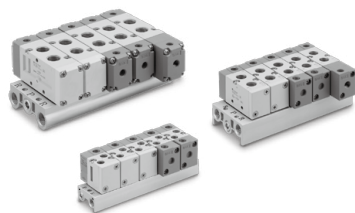
Symbol	Port size	VFA1000	VFA3000	VFA5000
M5	M5 x 0.8	○	—	—
01	1/8	○	○	—
02	1/4	—	○	○
03	3/8	—	—	○

Manifold Specifications

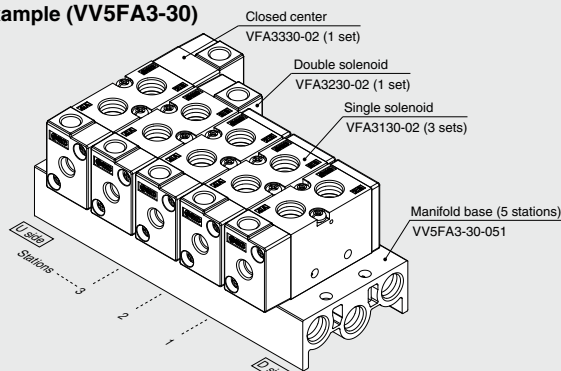
Series	VFA1000		VFA3000	VFA5000	
Manifold base model	VV5FA1-30 		VV5FA3-30 	VV5FA5-21 	
	VV5FA1-31 		VV5FA5-20 		
EXH port type	Common EXH	Individual EXH	Common EXH	Common EXH	Common EXH
Applicable valve model	VFA1□30		VFA3□30	VFA5□20	
Applicable stations	2 to 20 stations		2 to 20 stations	2 to 10 stations	2 to 15 stations
Manifold base Weight: W[g] Stations: n	$W = 29n + 21$	$W = 51n + 35$	$W = 63n + 64$	$W = 97n + 80$	$W = 139n + 550$

Note) Supply pressure to 1(P) ports and exhaust pressure from R ports on both sides for 10 stations or more (5 stations or more for the VFA5000).

How to Order Manifold Assembly



Example (VV5FA3-30)



VV5FA3-30-051....1 set (Type 30, 5-station manifold base part no.)

* VFA3130-02.....3 sets (Single part no.)

* VFA3230-02.....1 set (Double part no.)

* VFA3330-02.....1 set (Closed center part no.)

↳ The asterisk denotes the symbol for assembly. Prefix it to the part no. of the valve etc.

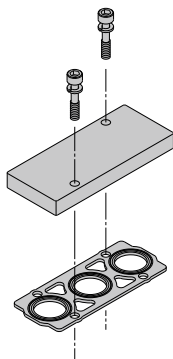
• The valve arrangement is numbered as the 1st station from D side.

• Under the manifold base part number, state the valves to be mounted in order from the 1st station as shown in the figure above.

Series VFA1000/3000/5000

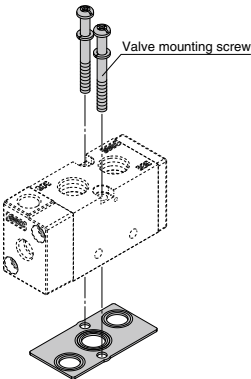
Manifold Options

■ For body ported Blanking plate assembly



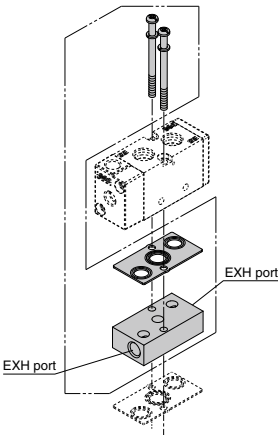
Series	Blanking plate assembly part no.
VFA1000	DXT144-13-3A
VFA3000	DXT031-38-5A
VFA5000	VF5000-70-1A

■ Mounting screw, gasket part no.



Series	Valve mounting screw (1 pc.)	Gasket
VFA1000	Round head combination screw DXT031-44-1	DXT144-12-2
VFA3000	(M4 x 39.5, With spring washer)	DXT155-25-7
VFA5000	Hexagon socket head cap screw AXT620-32-1 (M4 x 48, With spring washer)	DXT156-9-6

■ Individual EXH spacer assembly



⚠ Caution

Tightening Torque for Mounting Screw

M4: 1.4N·m

⚠ Warning

When mounting a valve or spacer on the manifold base or sub-plate, etc., the mounting orientation is already decided. If mounted in a wrong direction, the equipment to be connected may result in a malfunction. Refer to the dimensions for mounting.

VF **3** 000-75-1 **A**

Series

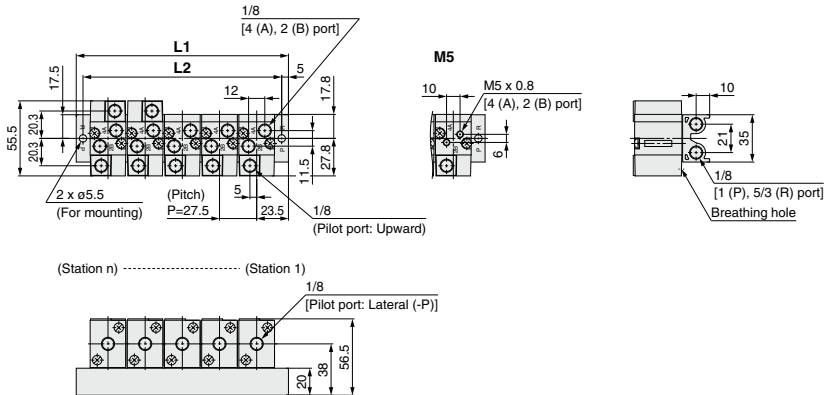
Symbol	Series	Port size
3	VFA3000	1/8
5	VFA5000	1/4

Thread type

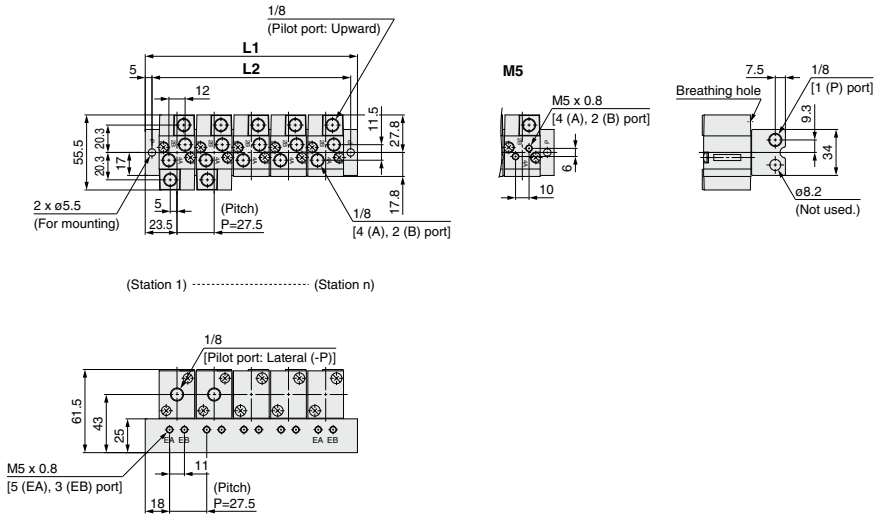
Nil	Rc
F	G
N	NPT
T	NPTF

Dimensions: Series VFA1000

Type 30: VV5FA1-30-□□1-□: Common exhaust



Type 31: VV5FA1-31-□□3-□: Individual exhaust



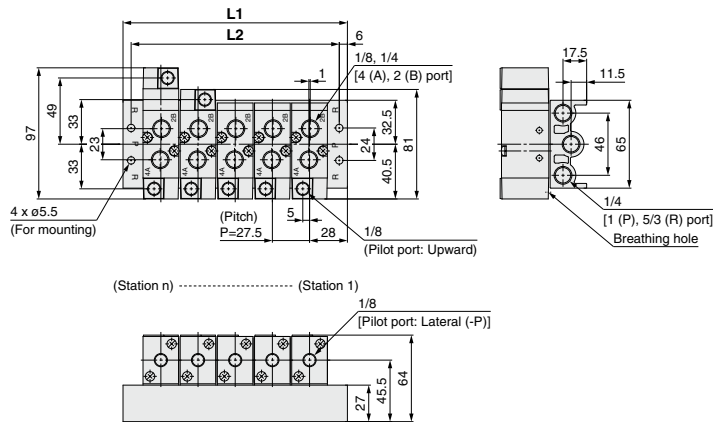
Dimensions (Common to Type 30 and Type 31)

		n: Stations																		
L	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1		74.5	102	129.5	157	184.5	212	239.5	267	294.5	322	349.5	377	404.5	432	459.5	487	514.5	542	569.5
L2		64.5	92	119.5	147	174.5	202	229.5	257	284.5	312	339.5	367	394.5	422	449.5	477	504.5	532	559.5

Series **VFA1000/3000/5000**

Dimensions: Series **VFA3000**

Type 30: **VV5FA3-30-□□1-□**: Common exhaust

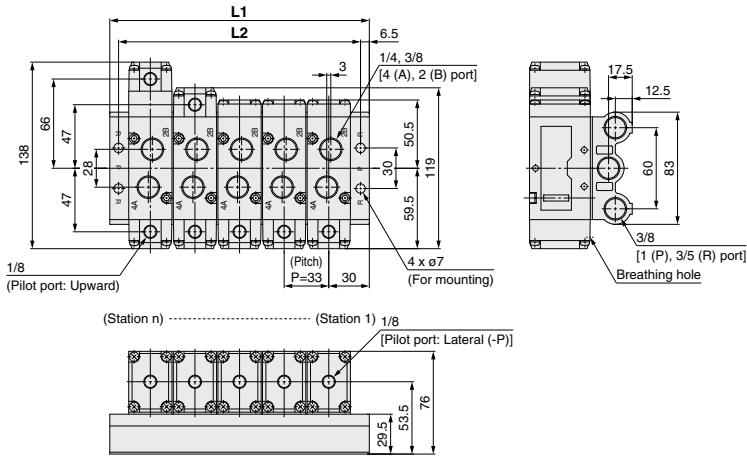


Dimensions

		n: Stations																		
L	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1		83.5	111	138.5	166	193.5	221	248.5	276	303.5	331	358.5	386	413.5	441	468.5	496	523.5	551	578.5
L2		71.5	99	126.5	154	181.5	209	236.5	264	291.5	319	346.5	374	401.5	429	456.5	484	511.5	539	566.5

Dimensions: Series VFA5000

Type 20: VV5FA5-20-□□1-□: Common exhaust

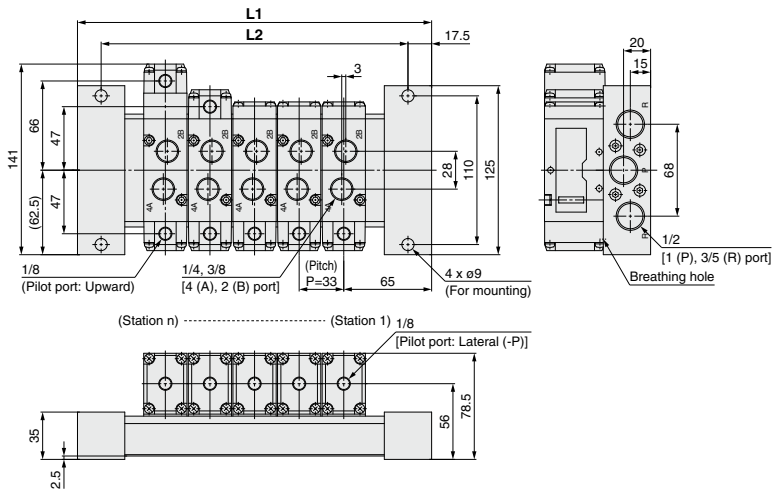


Dimensions

n: Stations

L \ n	2	3	4	5	6	7	8	9	10
L1	93	126	159	192	225	258	291	324	357
L2	80	113	146	179	212	245	278	311	344

Type 21: VV5FA5-21-□□1-□: Common exhaust



Dimensions

n: Stations

L \ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15
L1	163	196	229	262	295	328	361	394	427	460	493	526	559	592
L2	128	161	194	227	260	293	326	359	392	425	458	491	524	557

Base Mounted

5 Port Air Operated Valve

Series VFA3000/5000 Manifold

How to Order Manifold

Common exhaust

VV5FA **3** - 40 - **05** **2** - **02** **F**

Series

Symbol	Series	P, R Port size	A, B Port size
3	VFA3000	1/4	1/4
5	VFA5000	3/8	1/4

* The A and B ports are made on the bottom.

Stations

02	2 stations
20	20 stations

* Up to 10 stations for VV5FA5

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

How to Order Valve (With a gasket and two mounting screws)

VFA **3** **1** **4** **0** - -

Series

3	VFA3000
5	VFA5000

* Not available with the VFA1000.

Type of actuation

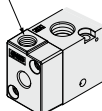
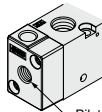
1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

Body model

Body option

Symbol	VFA3000	VFA5000
0	○	—
4	—	○

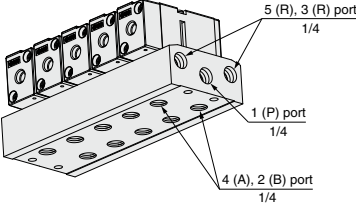
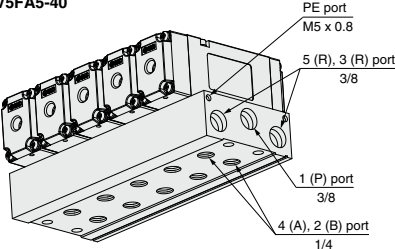
Pilot port direction

Nil : Upward	P : Lateral
	

Pilot port thread type

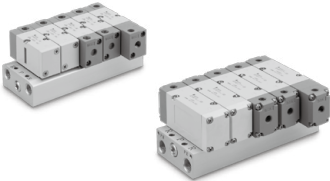
Nil	Rc
00F	G
00N	NPT
00T	NPTF

Manifold Specifications

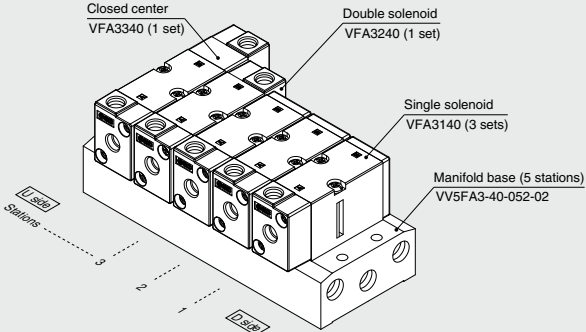
Series	Manifold base model	EXH port type	Applicable valve model	Applicable stations	Manifold base Weight: W[g] Stations: n
VFA3000	VV5FA3-40 	Common EXH	VFA3□40	2 to 20 stations	W = 110n + 116
VFA5000	VV5FA5-40 	Common EXH	VFA5□44	2 to 10 stations	W = 161n + 128

Note) Supply pressure to 1(P) ports and exhaust pressure from R ports on both sides for 10 stations or more (5 stations or more for the VFA5000).

How to Order Manifold Assembly



Example (VV5FA3-40)



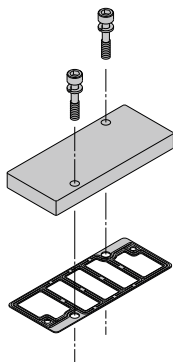
VV5FA3-40-052-02...1 set (Type 40, 5-station manifold base part no.)
* VFA3140.....3 sets (Single part no.)
* VFA3240.....1 set (Double part no.)
* VFA3340.....1 set (Closed center part no.)
↳ The asterisk denotes the symbol for assembly. Prefix it to the part no. of the valve etc.

- The valve arrangement is numbered as the 1st station from D side.
- Under the manifold base part number, state the valves to be mounted in order from the 1st station as shown in the figure above.

Refer to page 2213-26 for manifold options.

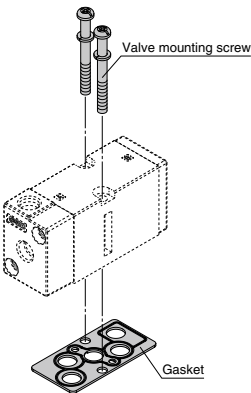
Manifold Options

■ For base mounted
Blanking plate assembly



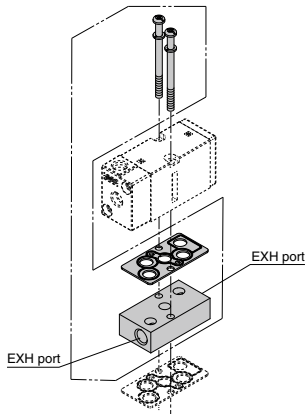
Series	Blanking plate assembly part no.
VFA3000	DXT031-38-5A
VFA5000	VF5000-70-2A

■ Mounting screw, gasket part no.



Series	Valve mounting screw (1 pc.)	Gasket
VFA3000	Round head combination screw DXT031-44-1 (M4 x 39.5, With spring washer)	DXT031-30-11
VFA5000	Hexagon socket head cap screw AXT620-32-1 (M4 x 48, With spring washer)	DXT156-9-8

■ Individual EXH spacer assembly



⚠ Caution

Tightening Torque for Mounting Screw

M4: 1.4N·m

⚠ Warning

When mounting a valve or spacer on the manifold base or sub-plate, etc., the mounting orientation is already decided. If mounted in a wrong direction, the equipment to be connected may result in a malfunction. Refer to the dimensions for mounting.

VF **3** 000-75-2 **A**

Series

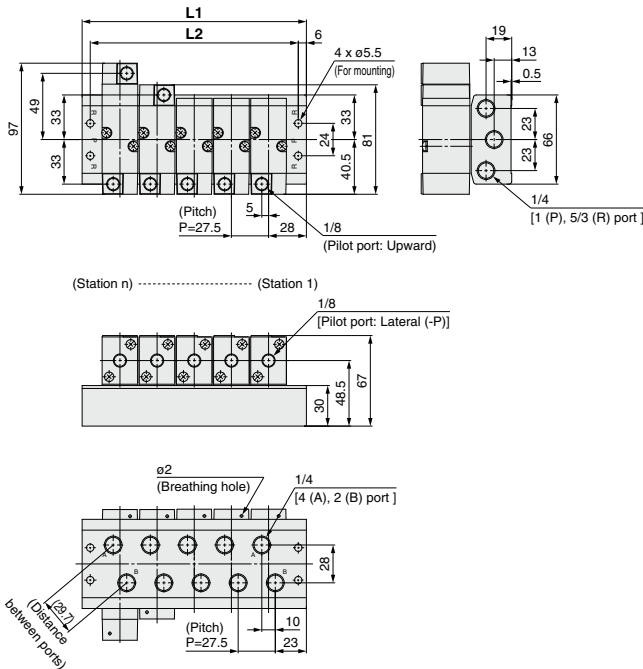
Symbol	Series	Port size
3	VFA3000	1/8
5	VFA5000	1/4

Thread type

Nl	Rc
F	G
N	NPT
T	NPTF

Dimensions: Series VFA3000

Type 40: VV5FA3-40-□□2-02□: Common exhaust



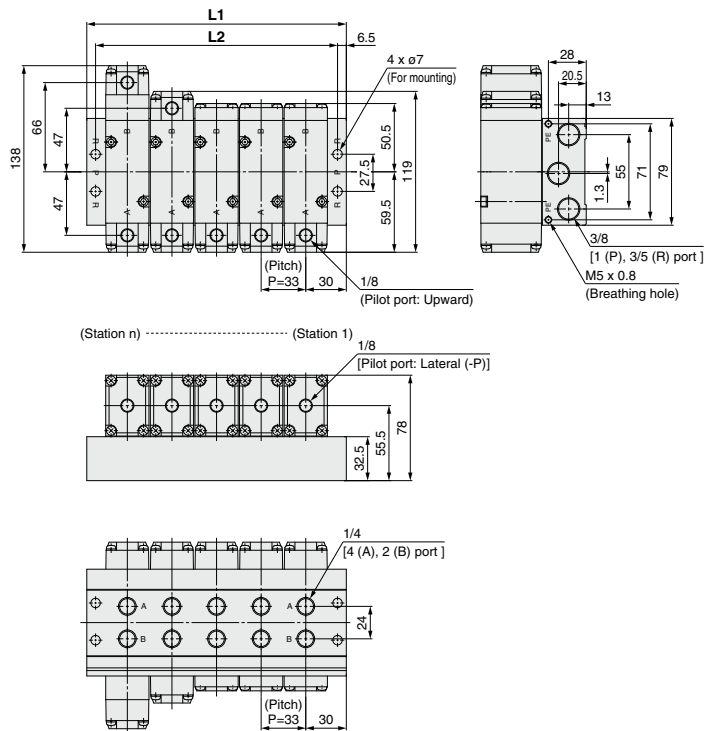
Dimensions

Dimensions																			n: Stations	
L \ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
L1	83.5	111	138.5	166	193.5	221	248.5	276	303.5	331	358.5	386	413.5	441	468.5	496	523.5	551	578.5	
L2	71.5	99	126.5	154	181.5	209	236.5	264	291.5	319	346.5	374	401.5	429	456.5	484	511.5	539	566.5	

Series **VFA3000/5000**

Dimensions: Series **VFA5000**

Type 40: **VV5FA5-40-□□2-02□**: Common exhaust



Dimensions		n: Stations							
L \ n	2	3	4	5	6	7	8	9	10
L1	93	126	159	192	225	258	291	324	357
L2	80	113	146	179	212	245	278	311	344