

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filt
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdrs FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/
other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro
Press SW
ContactSW
AirSens
PresSW
Cool
Air Flo
Sens/Ctrl
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending



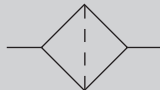
Vacuum filter and regulator

VFA1000/3000/4000 Series

Removes dust and moisture from air when absorbing air by vacuum pump or ejector.

● Port size: Rc1/8 to Rc1/2

JIS symbol



Specifications

Model No.	VFA1000		VFA3000		VFA4000	
Working pressure	kPa	-100 (≈15 psi, -1 bar) to 0 (≈0 psi, 0 bar)				
Proof pressure	MPa	0.5 (≈73 psi, 5 bar)				
Ambient / fluid temperatures	°C	5 (41°F) to 50 (122°F)				
Bowl capacity	cm ³	10	45		80	
Port size	Rc	1/8	1/4	1/4	3/8	3/8 1/2
Weight	kg	0.1		0.3		0.5
Recommended flow rate *1	ℓ/min(ANR)	60	80	100	200	250 400

*1: Flow rate applies where initial pressure loss is 3 kPa or less (at standard element used).

*2: For standard element, 40 μm of mesh (average) is used in filtration section (material: polyamide), while options include filtration rating 5 μm fiber (material: polypropylene).

Option weight

* Add to the weight of the standard accessories.

Unit: kg

	Bowl material	Bracket
Code	M	BW
VFA1000		0.1
VFA3000	0.1	0.17
VFA4000	0.1	0.21

How to order

VFA3000

8

M

B

A Model No.

B Port size

C Option

D Attachment

		A Model No.			
		VFA1000	VFA3000	VFA4000	
Code	Description				
B Port size					
6	Rc1/8	●			
8	Rc1/4	●	●		
10	Rc3/8		●	●	
15	Rc1/2			●	
C Option					
Bowl	Blank	Polyamide (nylon)	●	●	●
	M	Aluminum alloy (metal)		●	●
Element	Blank	40 μm Polyamide	●	●	●
	Y5	5 μm Polypropylene	●	●	●
D Attachment					
Blank	None	●	●	●	
B	C-bracket	●	●	●	

⚠ Precautions for model No. selection

*1: Indicate options for bowl material and element in order.

Specifications for rechargeable battery (Catalog No. CC-1226A)

● Structure compatible with rechargeable battery manufacturing process

Model No. of single bracket

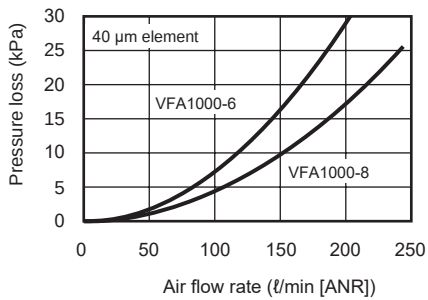
Model No.	Bracket model No.
VFA1000	B120
VFA3000	B320
VFA4000	B420

VFA*000 - -

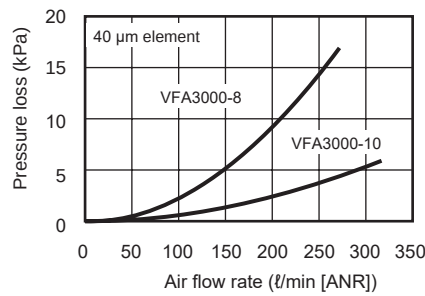
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Flow characteristics

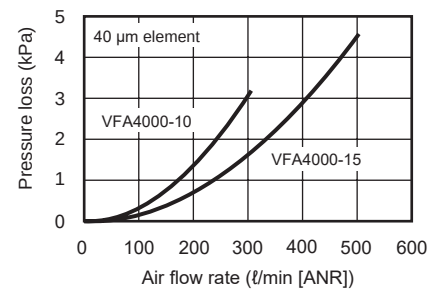
● VFA1000



● VFA3000



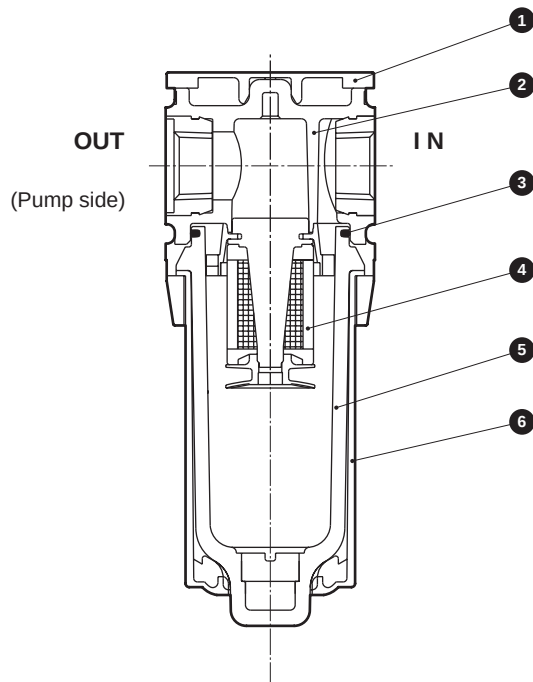
● VFA4000



*1: The flow rate of 5 µm element is 80% of that of 40 µm element.

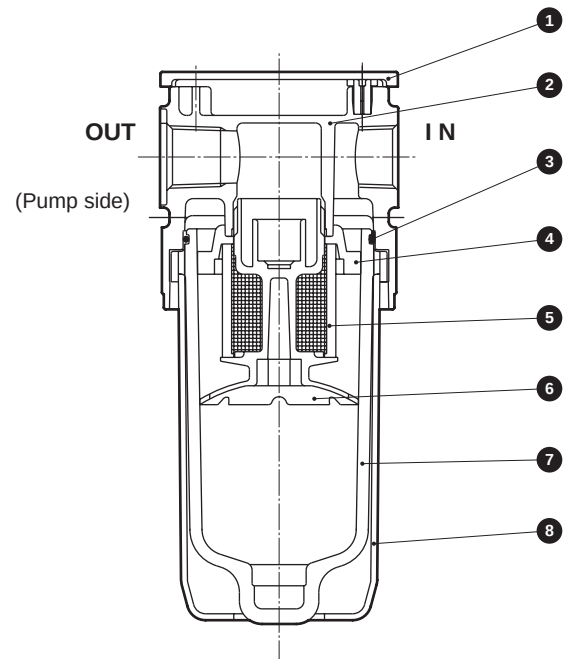
Internal structure and parts list

● VFA1000



● VFA3000

● VFA4000



No.	Part name	Material
1	Plate cover	ABS resin
2	Body assembly	Polyamide resin/steel
3	Packing	Special nitrile rubber
4	Element assembly	Polyamide resin Polyacetal resin
5	Bowl	Polyamide resin
6	Bowl guard	Polyamide resin

No.	Part name	Material
1	Plate cover	ABS resin
2	Body	Aluminum alloy die-casting
3	O-ring	Special nitrile rubber
4	Louver	Polypropylene resin
5	Element	Polyamide resin
6	Baffle	Polyacetal resin
7	Bowl	Polyamide resin
8	Bowl guard	Polyamide resin

Repair parts list

No./part name	④	④
Model No.	40 µm element assembly	5 µm element assembly
VFA1000	VFA1000-ELEMENT-ASSY	VFA1000-ELEMENT-ASSY-Y5

No./part name	⑤	⑤
Model No.	40 µm element	5 µm element
VFA3000	VFA3000-ELEMENT	VFA3000-ELEMENT-Y5
VFA4000	VFA4000-ELEMENT	VFA4000-ELEMENT-Y5

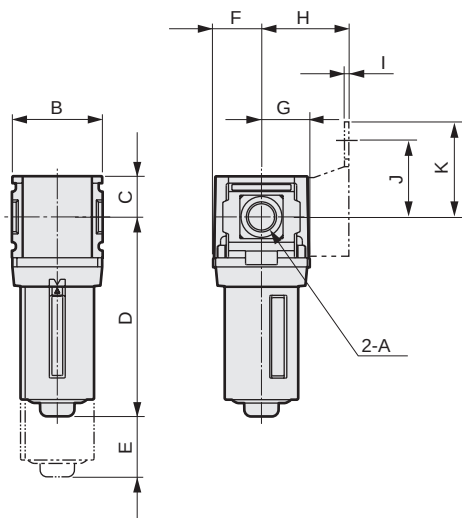
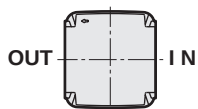
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Adapter
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LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/
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Fit/Tube
Nozzle
Air Unit
PrecsCompn
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etc
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Dimensions

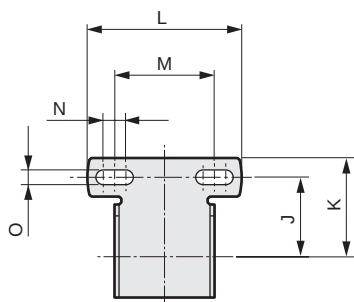
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Med Press FR
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Outdrs FRL
Adapter Joiner Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PrecsCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
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HiPolymDry
MainFiltr Dischrg etc
Ending

● VFA1000



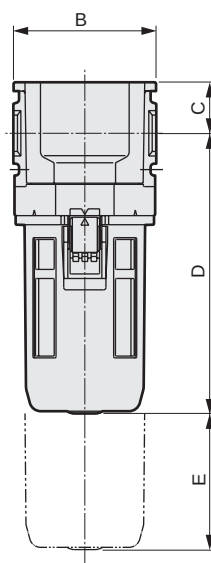
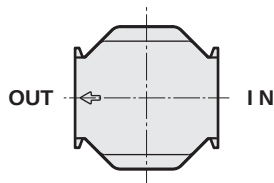
● C-bracket (included)

Model No. B120 (VFA1000)
· Material: Steel
zinc plated



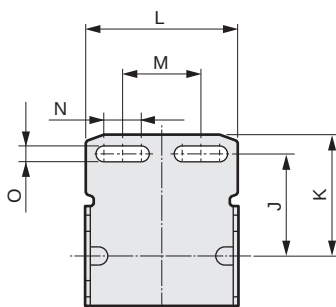
Weight : 0.1kg
Material : Steel

● VFA3000 ● VFA4000



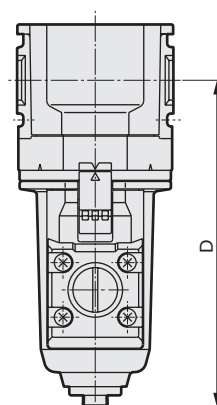
● C-bracket (included)

Model No. B320 (VFA3000)
Model No. B420 (VFA4000)
· Material: Steel
zinc plated



Weight : 0.17 kg (B320)
0.21 kg (B420)
Material : Steel

● Aluminum alloy bowl (option) (VFA3000/VFA4000 only)



Model No.	D
VFA3000	129
VFA4000	152

Model No.		A	B	C	D	E	F	G	C-bracket dimensions							
									H	I	J	K	L	M	N	O
VFA1000	-6	Rc1/8	40	18	88	40	21.5	21.5	40	2	35	43.5	68	44	10	6.5
	-8	Rc1/4														
VFA3000	-8	Rc1/4	63	22.5	123.5	60	(34.5)	63	45	2.3	45	53.5	67	34.5	16.5	7
	-10	Rc3/8														
VFA4000	-10	Rc3/8	80	22.5	149	60	(42.5)	79	55	2.3	45	53.5	84	55	14	7
	-15	Rc1/2														