Clean exhaust filter

FAC10 Series

● Port size: ø4, ø6, ø8, ø10

RoHS CAD

Specifications

Model No.		FAC10-4P	FAC10-6P	FAC10-8P	FAC10-10P
Working fluid		Compressed air			
Max. working pressure	MPa	0.1 (≈15 psi, 1 bar)			
Min. working pressure	MPa	0 (≈0 psi, 0 bar)			
Proof pressure	MPa	0.3 (≈44 psi, 3 bar)			
Ambient / fluid temperatures	°C	5 (41°F) to 45 (113°F)			
Port size		ø4	ø6	ø8	ø10
Weight	g	2			3
Filtration rating	µm	0.01 (removal efficiency 99.99% and over)			
Secondary side cleanliness		0.1 µm or larger particles are completely (100%) eliminated *1			
Max. processing flow rate	ℓ/min(ANR)	4	10	20	35

*1: Maximum processing flow rate for measurement, or 28.3 ℓ/min. (ANR) when the maximum processing flow rate is 28.3 ℓ/min. (ANR) or more

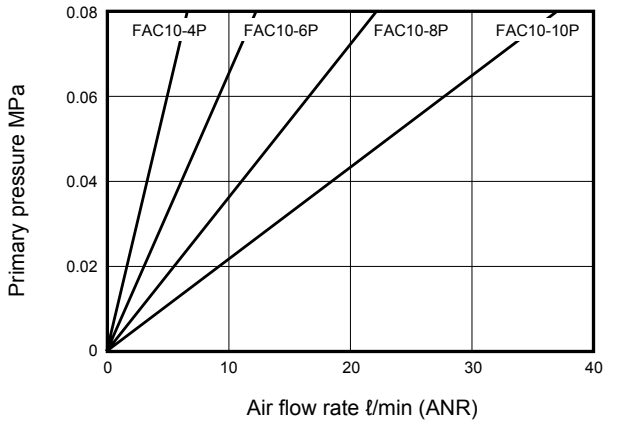
How to order

FAC10 - 4P

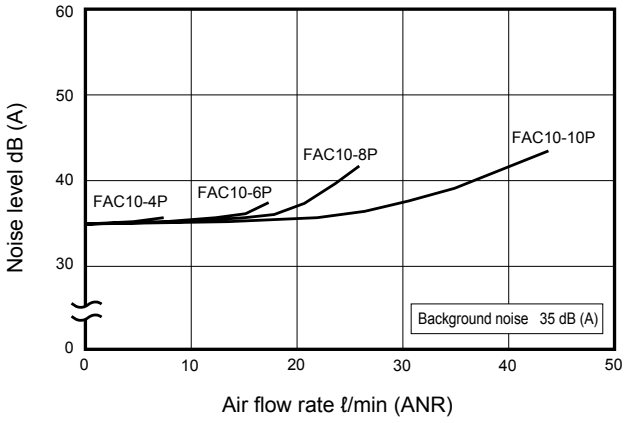
Ⓑ Port size

Code	Description
Ⓑ Port size	
4P	ø4
6P	ø6
8P	ø8
10P	ø10

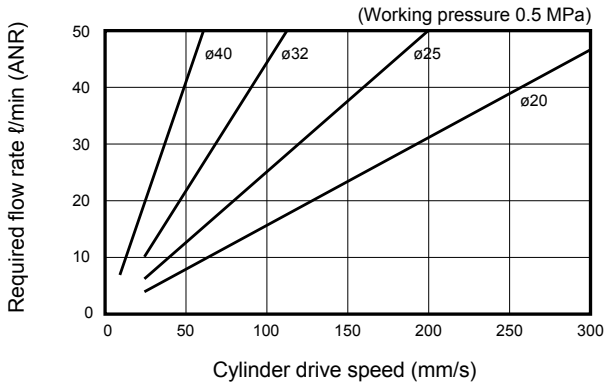
Flow characteristics



Noise level



Selection guide

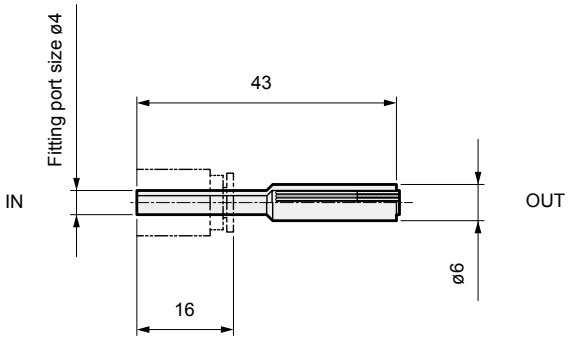


The clean exhaust filter model is selected based on the working circuit's required flow rate.
(1) Calculate the required flow rate for the actuator being used.
(2) Multiply the calculated required flow rate by 1.4.
(3) Select a model having a processing flow rate exceeding the required flow rate multiplied by 1.4.

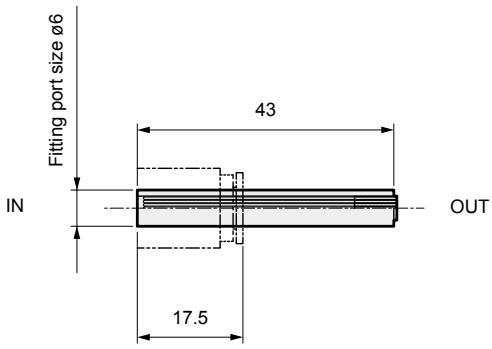
The above graphs show the required flow rate multiplied by 1.4 for each air cylinder size. Use this graph to select a model.

Internal structure diagram and parts list/dimensions

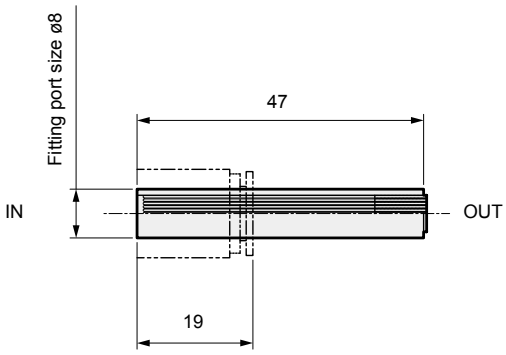
● FAC10-4P



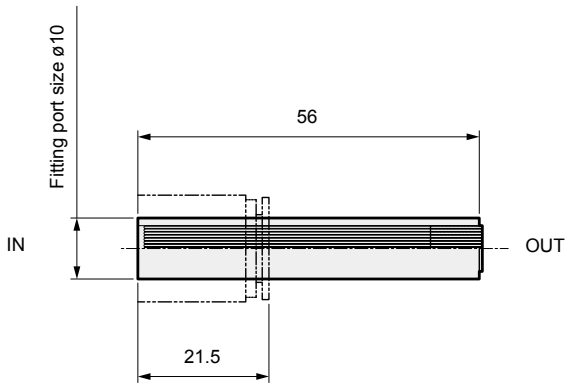
● FAC10-6P



● FAC10-8P

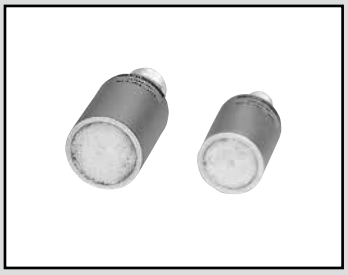


● FAC10-10P



No.	Part name		Material
1	Body	Housing	Polyamide
		Filter	Polypropylene
		Filler material	Urethane

Cannot be disassembled



Clean exhaust filter

FAC100/FAC200 Series

● Port size: R1/8, R1/4, R3/8, R1/2

RoHS CAD

Specifications

Model No.		FAC100	FAC200
Working fluid		Compressed air	
Max. working pressure	MPa	0.1 (≈15 psi, 1 bar)	
Min. working pressure	MPa	0 (≈0 psi, 0 bar)	
Proof pressure	MPa	0.3 (≈44 psi, 3 bar)	
Ambient / fluid temperatures	°C	5 (41°F) to 40 (104°F)	
Port size		R 1/8,R1/4	R 3/8,R1/2
Weight	g	65	85
Filtration rating	μm	0.01 (removal efficiency 99.99% and over)	
Secondary side cleanliness		0.1 μm or larger particles are completely (100%) eliminated *1	
Max. processing flow rate	ℓ/min(ANR)	100	200

*1: Flow rate at the time of measurement: 28.3 ℓ/min (ANR).

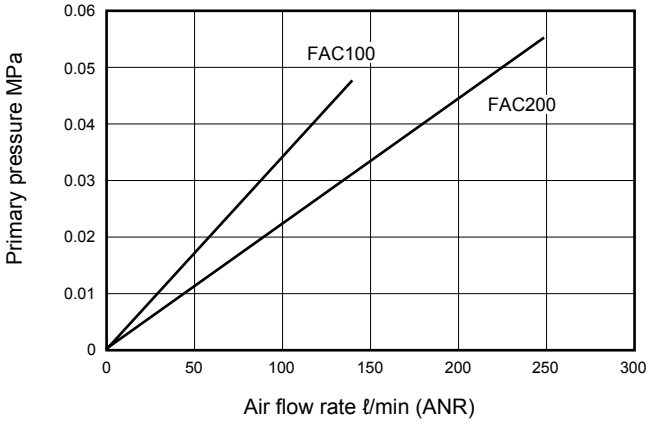
How to order

FAC100 - **8A**

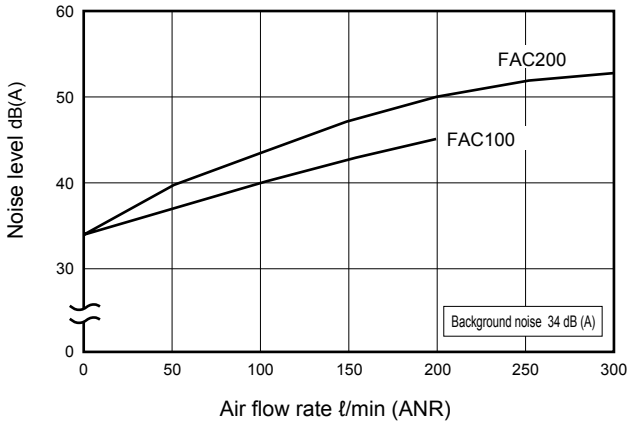
Ⓐ Model No. Ⓑ Port size

Code	Description	Ⓐ Model No. FAC100	Ⓐ Model No. FAC200
Ⓑ Port size			
6A	R1/8	●	
8A	R1/4	●	
10A	R3/8		●
15A	R1/2		●

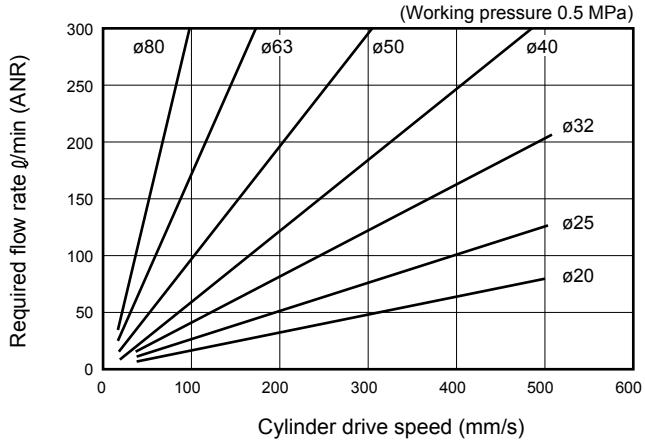
Flow characteristics



Noise level



Selection guide



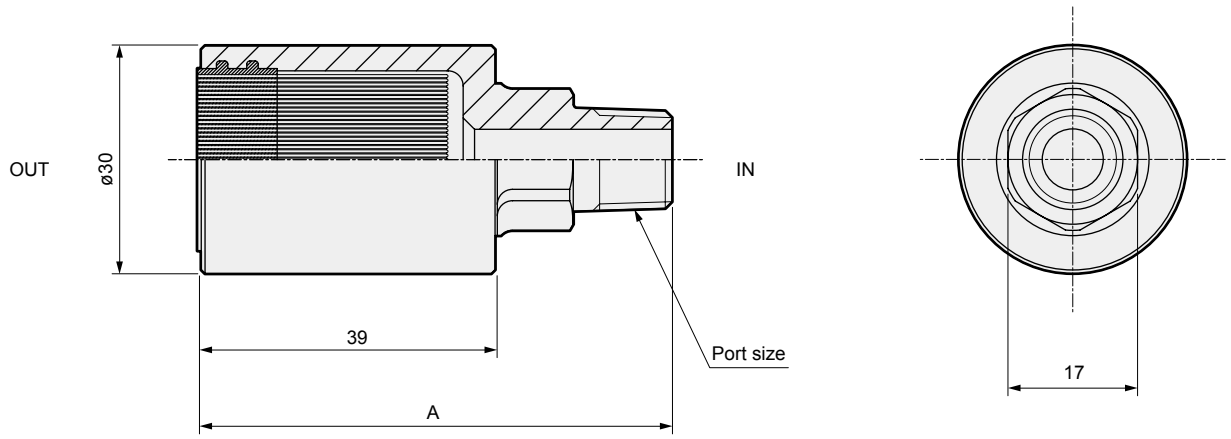
The clean exhaust filter model is selected based on the working circuit's required flow rate.
(1) Calculate the required flow rate for the actuator being used.
(2) Multiply the calculated required flow rate by 1.4.
(3) Select a model having a processing flow rate exceeding the required flow rate multiplied by 1.4.

The above graphs show the required flow rate multiplied by 1.4 for each air cylinder size. Use this graph to select a model.

Internal structure diagram and parts list/dimensions

CAD

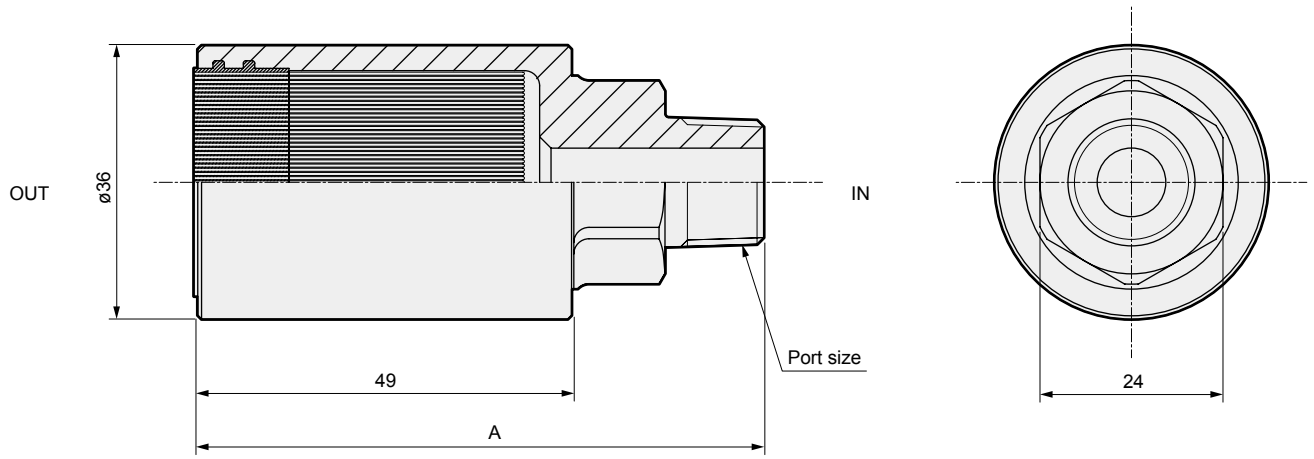
● FAC100



No.	Part name		Material
1	Body	Housing	Aluminum alloy (alumite treatment)
		Filter	Polypropylene
		Filler material	Urethane

Model No.	A	Port size
FAC100-6A	59	R1/8
FAC100-8A	62	R1/4

● FAC200



No.	Part name		Material
1	Body	Housing	Aluminum alloy (alumite treatment)
		Filter	Polypropylene
		Filler material	Urethane

Model No.	A	Port size
FAC200-10A	75	R3/8
FAC200-15A	78	R1/2

Cannot be disassembled

Clean exhaust filter

FAC3000 Series

● Port size: Rc3/8, Rc1/2

RoHS CAD

Specifications

Model No.		FAC3000
Working fluid		Compressed air
Max. working pressure	MPa	0.1 (≈15 psi, 1 bar)
Min. working pressure	MPa	0 (≈0 psi, 0 bar)
Proof pressure	MPa	0.3 (≈44 psi, 3 bar)
Ambient / fluid temperatures	°C	5 (41°F) to 45 (113°F)
Port size		Rc3/8,Rc1/2
Weight	kg	0.29
Filtration rating	μm	0.01 (removal efficiency 99.99% and over)
Attachment weight	kg	0.17
Secondary side cleanliness		0.1 μm or larger particles are completely (100%) eliminated *1
Max. processing flow rate	ℓ/min(ANR)	600

*1: Flow rate at the time of measurement: 28.3 ℓ/min (ANR).

How to order

FAC3000 - **10** - **B**

Model No.

Ⓐ Port size

Ⓑ Attachment

Code	Description
Ⓐ Port size	
10	Rc3/8
15	Rc1/2
Ⓑ Other attachments	
Blank	None
B	C type bracket: B320-P70

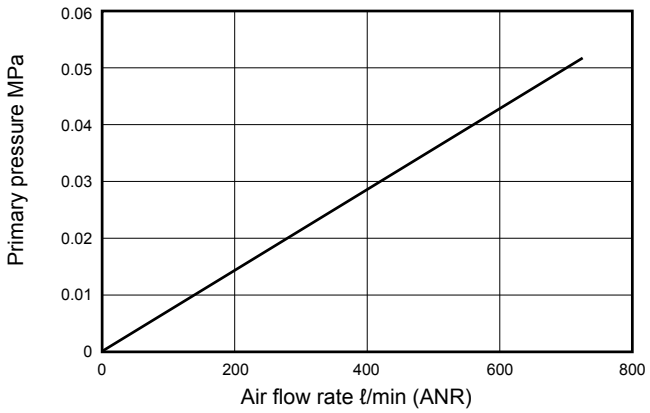
Note: Two attachments are included, one R1/8 plug and one plug corresponding to the connection port size (R3/8 or R1/2).

Model No. of single bracket

B320-P70

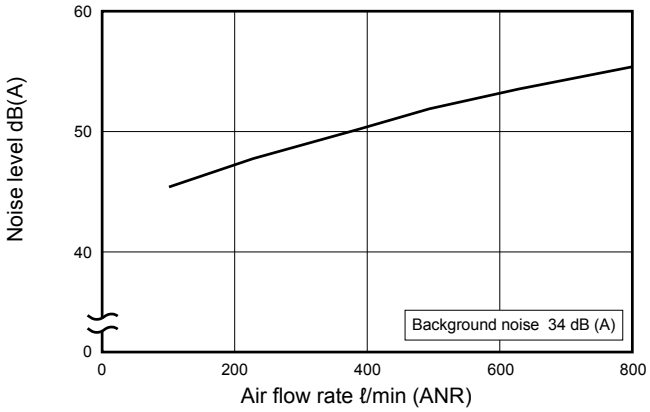
Flow characteristics

● FAC3000



Noise level

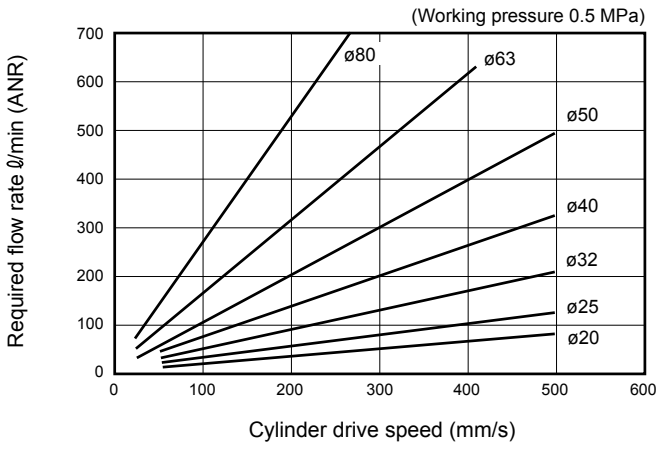
● FAC3000



Selection guide

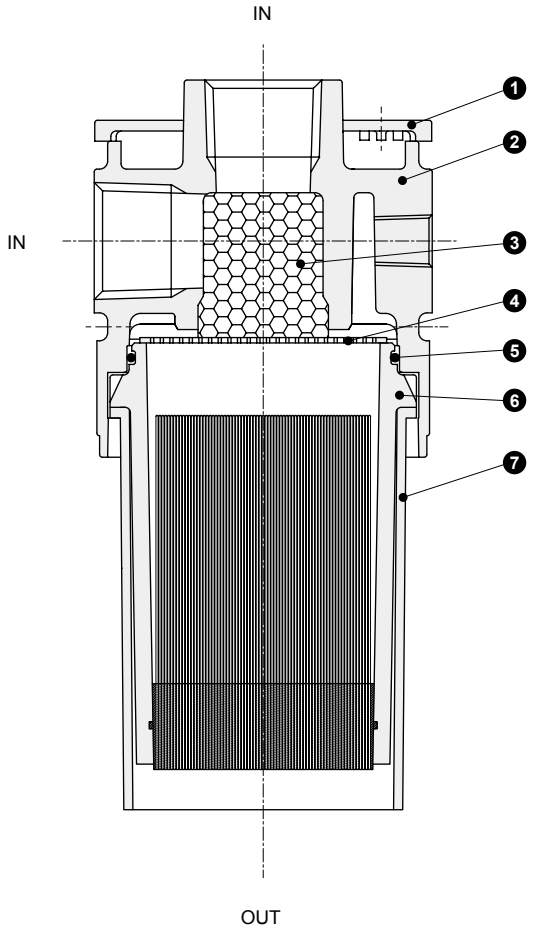
The clean exhaust filter model is selected based on the working circuit's required flow rate.
(1) Calculate the required flow rate for the actuator being used.
(2) Multiply the calculated required flow rate by 1.4.
(3) Select a model having a processing flow rate exceeding the required flow rate multiplied by 1.4.

The graph at right shows the required flow rate multiplied by 1.4 for each air cylinder size. Use this graph to select a model.



Internal structure and parts list

● FAC3000

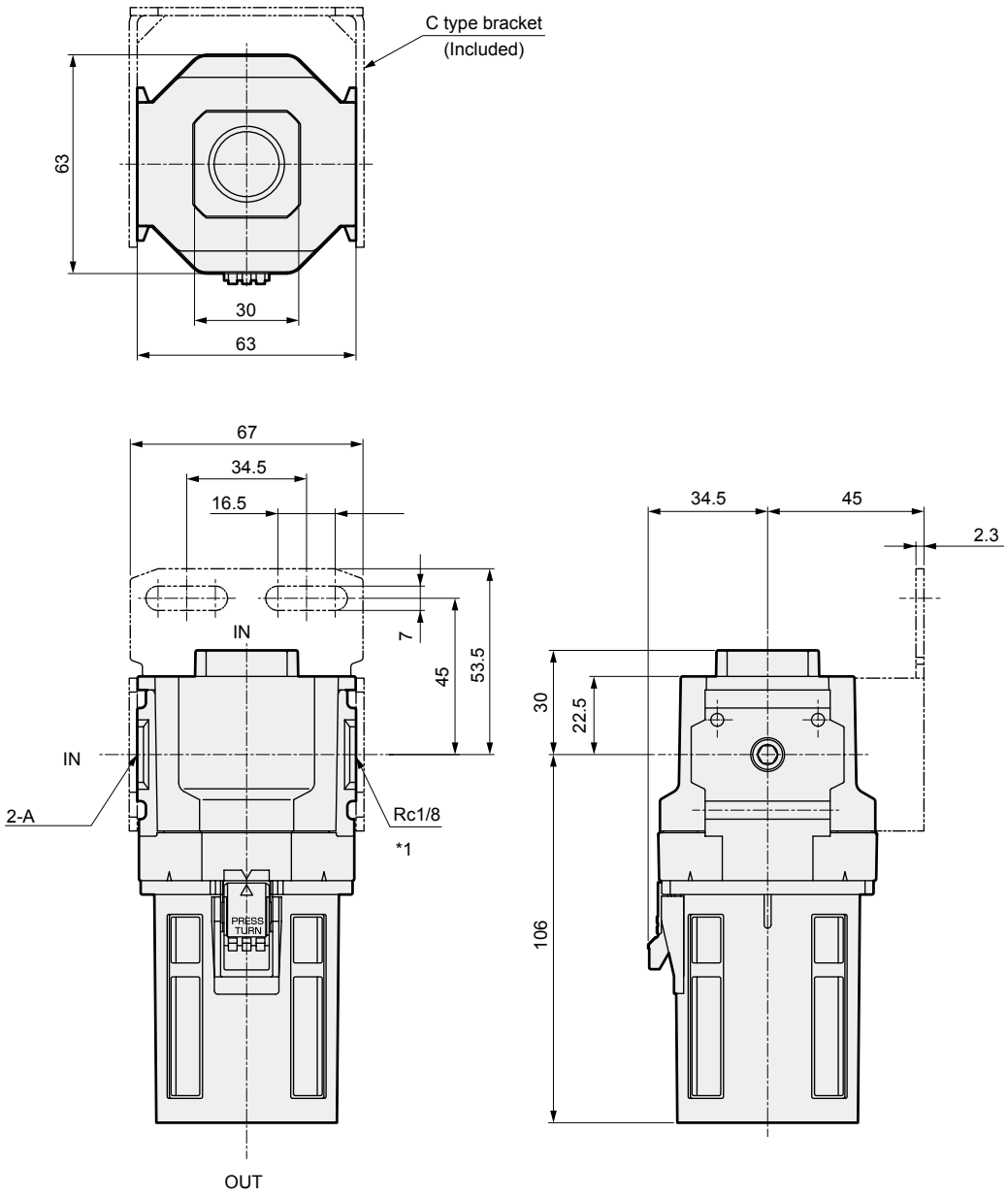


Cannot be disassembled

No.	Part name		Material
1	Plate cover		ABS resin
2	Body		Aluminum alloy die-casting
3	Sound insulation material		Vinylidene chloride
4	Rectification plate		Stainless steel
5	O-ring		Special nitrile rubber
6	Hollow fiber membrane element	Housing	Polycarbonate
		Filter	Polypropylene
		Filler material	Urethane
7	Bowl guard		Polyamide resin, stainless steel

Dimensions

● FAC3000



Model No.	A
FAC3000-10	Rc3/8
FAC3000-15	Rc1/2

*1: The Rc1/8 port can be used for treating air exhaust and monitoring element life. Replace the element when primary pressure exceeds 0.1 MPa. When not using this port, plug it with the R1/8 plug provided. Contact CKD for details on repair parts such as elements.

Customized products

Available as customized products. Contact CKD for details.

FAC10-M5

- Max. processing flow rate: 2 ℓ/min (ANR) or more
- Port size : M5
- Body material : Stainless steel

FAC10-6

- Max. processing flow rate: 4 ℓ/min (ANR) or more
- Port size : R1/8
- Body material : Stainless steel