

F.R.L  
F (Filtr)  
R (Reg)  
L (Lub)  
PresSW  
Shutoff  
SlowStart  
FimResistFR  
Oil-ProhR  
MedPresFR  
No Cu/  
PTFE FRL  
Outdrs FR  
F.R.L  
(Related)  
CompFRL  
LgFRL  
PrecsR  
VacF/R  
Clean FR  
ElecPneuR  
AirBoost  
SpdContr  
Silncr  
CheckV/  
other  
Jnt/tube  
AirUnt  
PrecsCompn  
Mech/  
ElecPresSw  
ContactSW  
AirSens  
PresSW  
Cool  
AirFloSens/  
Contr  
WaterRtSens  
TotAirSys  
(Total Air)  
TotAirSys  
(Gamma)  
RefrDry  
DesicDry  
HiPolymDry  
MainFiltr  
Dischrg  
etc  
Ending



Clean exhaust filter

# FAC10 Series

● Port size:  $\phi 4$ ,  $\phi 6$ ,  $\phi 8$ ,  $\phi 10$



## Specifications

Model No.	FAC10-4P	FAC10-6P	FAC10-8P	FAC10-10P
Working fluid	Compressed air			
Max. working pressure MPa	0.1 ( $\approx 15$ psi, 1 bar)			
Min. working pressure MPa	0 ( $\approx 0$ psi, 0 bar)			
Proof pressure MPa	0.3 ( $\approx 44$ psi, 3 bar)			
Ambient / fluid temperatures $^{\circ}\text{C}$	5 ( $41^{\circ}\text{F}$ ) to 45 ( $113^{\circ}\text{F}$ )			
Port size	$\phi 4$	$\phi 6$	$\phi 8$	$\phi 10$
Weight g	2		3	
Filtration rating $\mu\text{m}$	0.01 (removal efficiency 99.99% and over)			
Secondary side cleanliness	0.1 $\mu\text{m}$ or larger particles are completely (100%) eliminated *1			
Max. processing flow rate $\ell/\text{min}(\text{ANR})$	4	10	20	35

\*1: Maximum processing flow rate for measurement, or 28.3  $\ell/\text{min}$ . (ANR) when the maximum processing flow rate is 28.3  $\ell/\text{min}$ . (ANR) or more

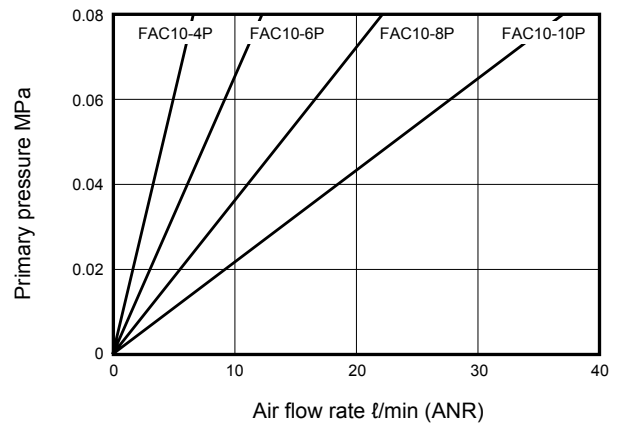
## How to order

**FAC10 - 4P**

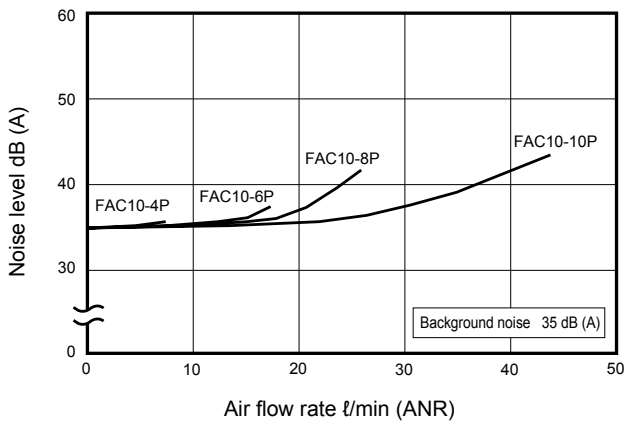
**B** Port size

Code	Content
<b>B</b> Port size	
<b>4P</b>	$\phi 4$
<b>6P</b>	$\phi 6$
<b>8P</b>	$\phi 8$
<b>10P</b>	$\phi 10$

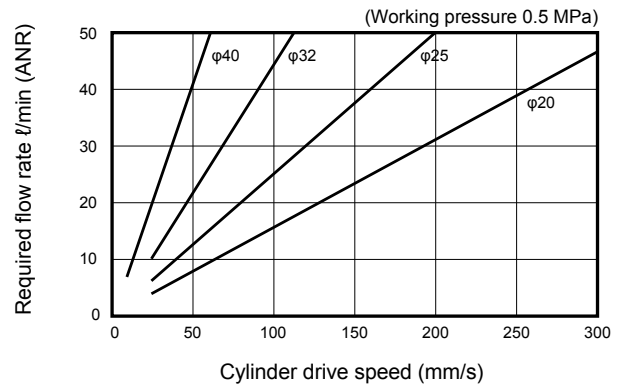
## Flow characteristics



## Noise level



## Selection guide



The clean exhaust filter model is selected based on the working circuit's required flow rate.

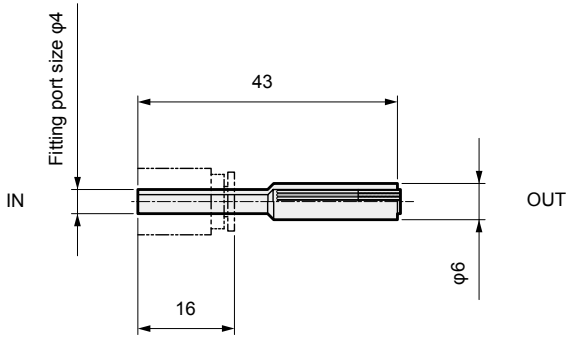
- (1) Calculate the required flow rate for the actuator being used.
- (2) Multiply the calculated required flow rate by 1.4.
- (3) Select a model having a processing flow rate exceeding the required flow rate multiplied by 1.4.

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

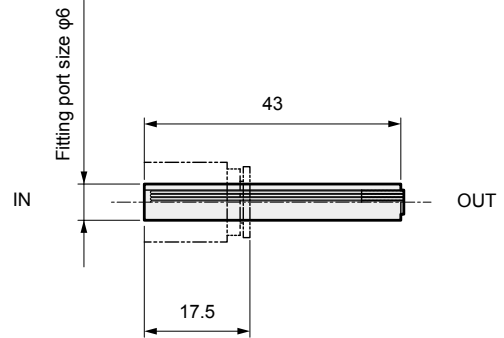
### Internal structure diagram and parts list/dimensions



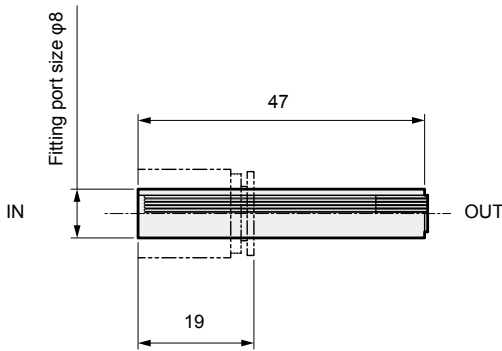
#### ● FAC10-4P



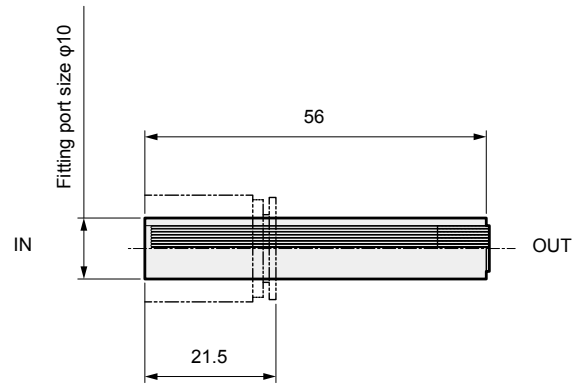
#### ● FAC10-6P



#### ● FAC10-8P



#### ● FAC10-10P



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

**Cannot be disassembled**

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- Oil-ProhR
- MedPresFR
- No Cu/  
PTFE FRL
- Outdrs FR
- F.R.L  
(Related)
- CompFRL
- LgFRL
- PrecsR
- VacF/R
- Clean FR**
- ElecPneuR
- AirBoost
- SpdContr
- Silncr
- CheckV/  
other
- Jnt/tube
- AirUnt
- PrecsCompn
- Mech/  
ElecPresSw
- ContactSW
- AirSens
- PresSW  
Cool
- AirFloSens/  
Contr
- WaterRtSens
- TotAirSys  
(Total Air)
- TotAirSys  
(Gamma)
- RefrDry
- DesicDry
- HiPolymDry
- MainFiltr
- Dischrg  
etc
- Ending



Clean exhaust filter

# FAC100/FAC200 Series

● Port size: R1/8, R1/4, R3/8, R1/2



## 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).

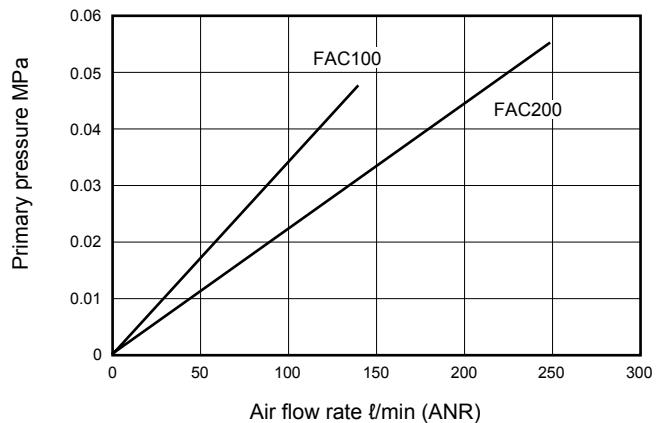
## How to order

**FAC100 - 8A**

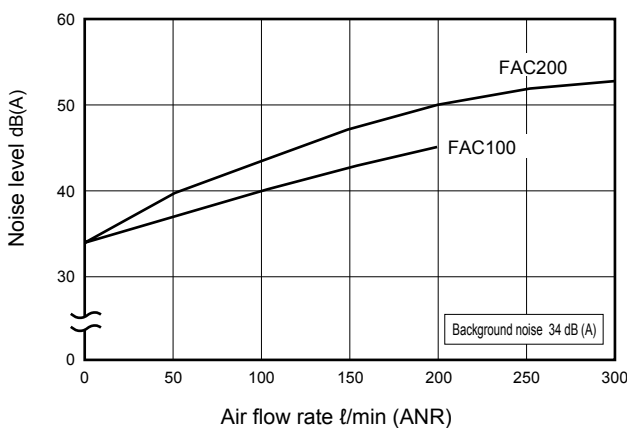
● A Model No. ● B Port size

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

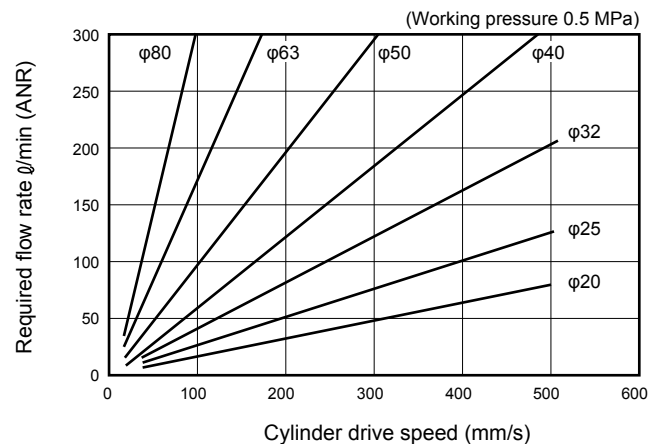
## Flow characteristics



## 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.

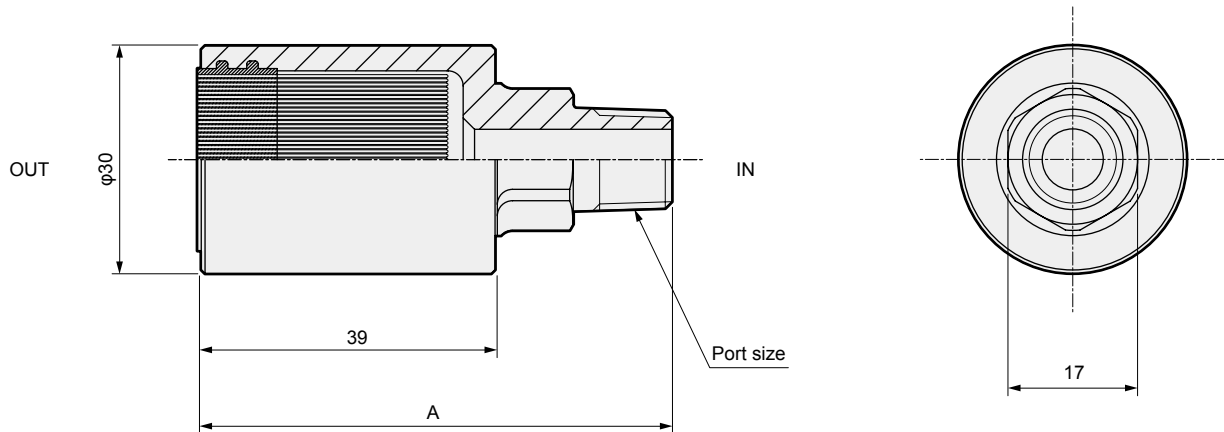
# FAC100/FAC200 Series

Internal structure diagram and parts list/dimensions

Internal structure diagram and parts list/dimensions



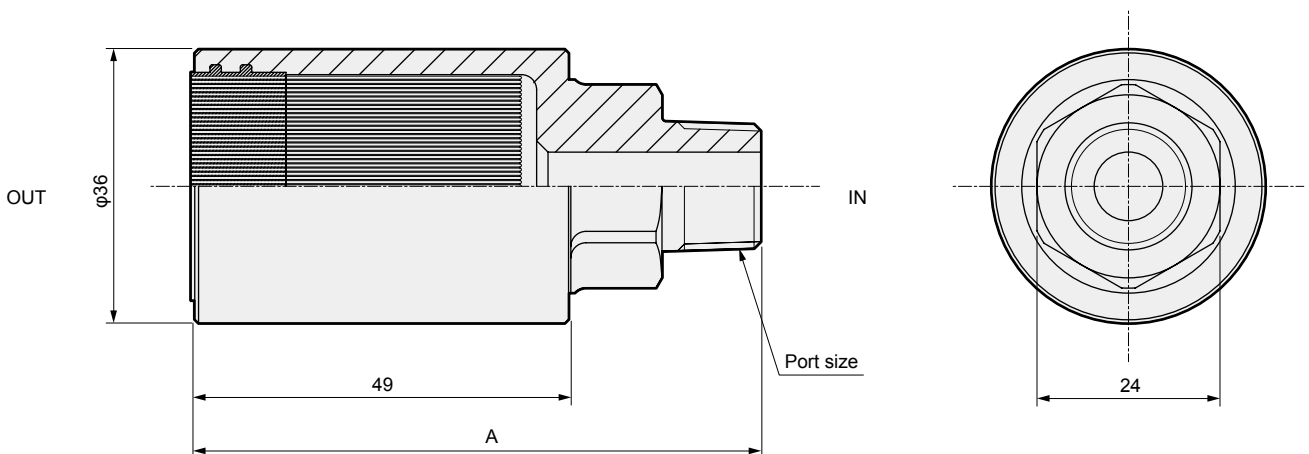
● FAC100



No.	Part name	Material
1	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	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**

- F.R.L
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- R (Reg)
- L (Lub)
- PresSW
- Shutoff
- SlowStart
- FimResistFR
- Oil-ProhR
- MedPresFR
- No Cu/  
PTFE FRL
- Outdrs FR
- F.R.L  
(Related)
- CompFRL
- LgFRL
- PrecsR
- VacF/R
- Clean FR
- ElecPneuR
- AirBoost
- SpdContr
- Silncr
- CheckV/  
other
- Jnt/tube
- AirUnt
- PrecsCompn
- Mech/  
ElecPresSw
- ContactSW
- AirSens
- PresSW  
Cool
- AirFloSens/  
Contr
- WaterRISens
- TotAirSys  
(Total Air)
- TotAirSys  
(Gamma)
- RefrDry
- DesicDry
- HiPolymDry
- MainFiltr
- Dischrg  
etc
- Ending



Clean exhaust filter

# FAC3000 Series

● Port size: Rc3/8, Rc1/2

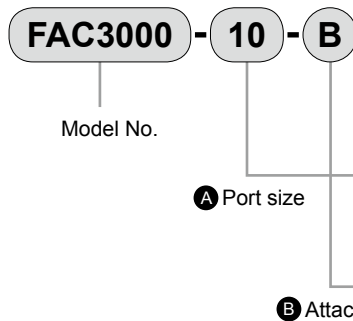


## Specifications

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



Code	Content
<b>A Port size</b>	
10	Rc3/8
15	Rc1/2
<b>B Other attachments</b>	
Blank	Without attachment
B	C type bracket: B320-P70

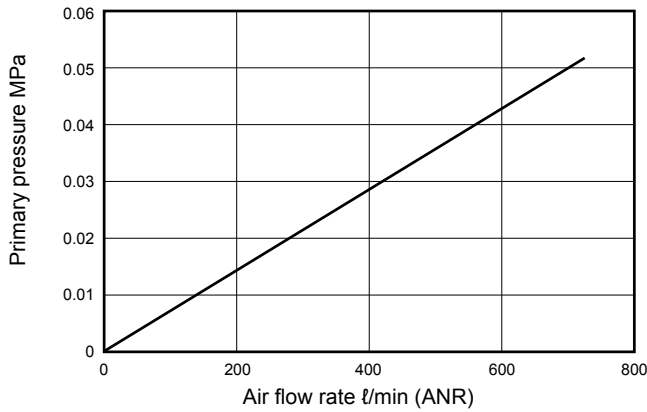
Note: Two attachments are included, one R1/8 plug and one plug corresponding to the connection port size (R3/8 or R1/2).

Model No. of single bracket

**B320-P70**

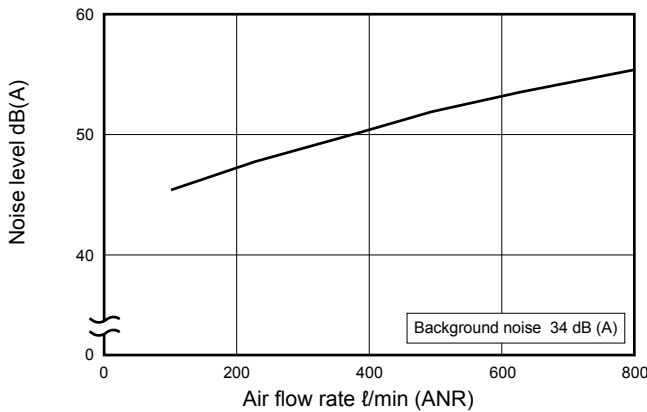
## Flow characteristics

● FAC3000



## Noise level

● FAC3000

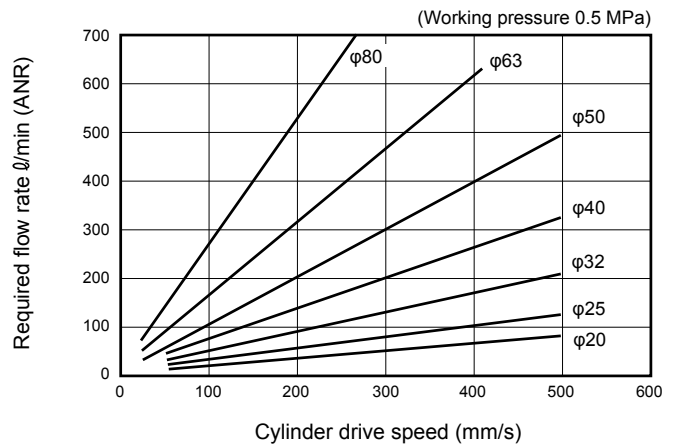


## Selection guide

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.



- F.R.L
- F (Filtr)
- R (Reg)
- L (Lub)
- PresSW
- Shutoff
- SlowStart
- FimResistFR
- Oil-ProhR
- MedPresFR
- No Cu/PTFE FRL
- Outdrs FR
- F.R.L (Related)
- CompFRL
- LgFRL
- PrecsR
- VacF/R
- Clean FR
- ElecPneuR
- AirBoost
- SpdContr
- Silncr
- CheckV/other
- Jnt/tube
- AirUnt
- PrecsCompn
- Mech/ElecPresSw
- ContactSW
- AirSens
- PresSW Cool
- AirFloSens/Contr
- WaterRtSens
- TotAirSys (Total Air)
- TotAirSys (Gamma)
- RefrDry
- DesicDry
- HiPolymDry
- MainFiltr
- Dischrg etc
- Ending

# FAC3000 Series

## F.R.L Internal structure and parts list

F (Filtr) ● FAC3000

R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart

FimResistFR

Oil-ProhR

MedPresFR

No Cu/  
PTFE FRL

Outdrs FR

F.R.L  
(Related)

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/  
other

Jnt/tube

AirUnt

PrecsCompn

Mech/  
ElecPresSw

ContactSW

AirSens

PresSW  
Cool

AirFloSens/  
Contr

WaterRtSens

TotAirSys  
(Total Air)

TotAirSys  
(Gamma)

RefrDry

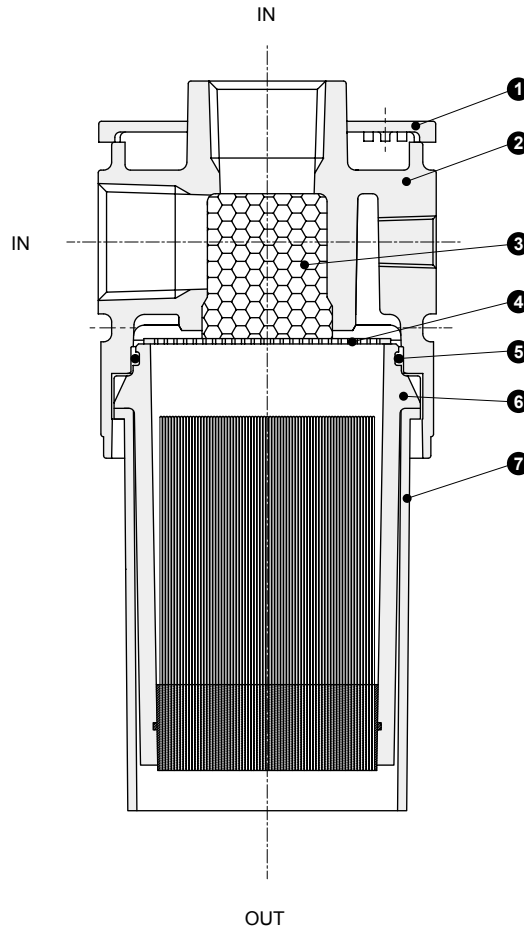
DesicDry

HiPolymDry

MainFiltr

Dischrg  
etc

Ending



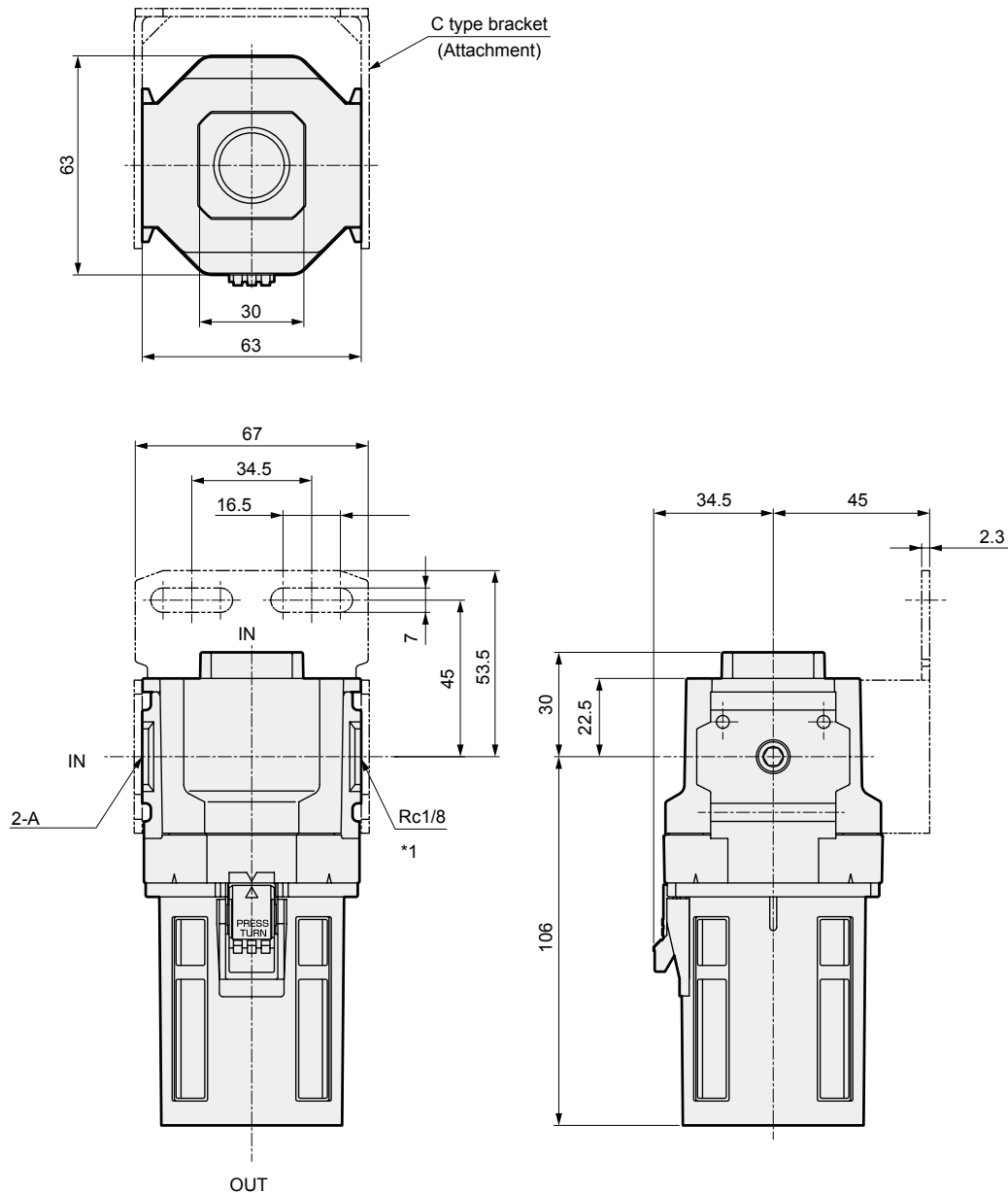
**Cannot be disassembled**

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.

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TotAirSys (Total Air)
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Ending



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PTFE FRL
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(Related)
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- LgFRL
- PrecsR
- VacF/R
- Clean FR
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- AirBoost
- SpdContr
- Silncr
- CheckV/  
other
- Jnt/tube
- AirUnt
- PrecsCompn
- Mech/  
ElecPresSw
- ContactSW
- AirSens
- PresSW  
Cool
- AirFloSens/  
Contr
- WaterRtSens
- TotAirSys  
(Total Air)
- TotAirSys  
(Gamma)
- RefrDry
- DesicDry
- HiPolymDry
- MainFiltr
- Dischrg  
etc
- Ending

## Custom product

Available as a custom product. 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

