



Air filter medium pressure Standard White Series

FM3000-W/FM4000-W/FM6000-W/FM8000-W Series

F3000 to 8000 Series medium pressure specifications

● Port size: 1/4 to 1

JIS symbol 



Specifications

Model No.	FM3000-W	FM4000-W	FM6000-W	FM8000-W
Appearance				
Working fluid	Compressed air			
Max. working pressure MPa	1.6 (≈230 psi, 16 bar) (*1, *2)			
Proof pressure MPa	2.4 (≈350 psi, 24 bar) (*2)			
Ambient temperature °C	-5 (23°F) to 60 (140°F) (no freezing) (*1, *2)			
Fluid temperature °C	5 (41°F) to 60 (140°F) (*1, *2)			
Filtration rating μm	5 or 0.3			
Drain capacity cm ³	45	80	80	80 (*3)
Port size Rc,NPT,G	1/4,3/8	1/4,3/8,1/2	3/4,1	3/4,1
Weight kg	0.35	0.55	1.0	1.26

*1: In the case of "F" with auto-drain, the min. working pressure of auto-drain is 0.1 MPa.
 Air is purged with initial drainage until pressure reaches 0.1 MPa. The max. working pressure is 1.5 MPa, the proof pressure is 2.25 MPa, the ambient temperature is -5 to 45°C , and the fluid temperature is 5 to 45°C.

*2: In the case of "F1" with auto-drain, the min. working pressure of auto-drain is 0.15 MPa.
 The max. working pressure is 1.5 MPa, the proof pressure is 2.25 MPa, the ambient temperature is -5 to 45°C , and the fluid temperature is 5 to 45°C.

*3: Up to 170 cm³ is stored with the manual drain cock only.

Option weight

* Add to the weight of the standard accessories.

Unit: kg

Code	Drain discharge		Attachment						Bracket
	F	F1	A8*W	A10*W	A15*W	A20*W	A25*W	A32*W	BW
FM3000	0.02	0.02	0.16	0.16	0.16				0.17
FM4000	0.02	0.02	0.16	0.16	0.16	0.16			0.21
FM6000	0.02	0.02				0.53	0.53	0.53	0.34
FM8000	0.02	0.02				0.53	0.53	0.53	0.36

How to order

FM3000 - **8** - **W** - **F** - **A8W**

A Model No.

(White type)

B Port size

C Port thread

D Option

E Display unit

F Other attachments

G Bracket (included)

* Refer to page 30 for the explanation of the option.

A Model No.

Code	Description	FM3	FM4	FM6	FM8				
B Port size									
8	1/4	●	●						
10	3/8	●	●						
15	1/2		●						
20	3/4			●	●				
25	1			●	●				
C Port thread									
Blank	Rc thread	●	●	●	●				
N	NPT thread	●	●	●	●				
G	G thread	●	●	●	●				
D Option									
Drain discharge *3, *4	Blank	With manual drain cock				●	●	●	●
	F	NO auto-drain (no press→Exhaust) drain outlet Rc1/8 Max. working press 1.5 MPa, max. operating amb temp 45°C				●	●	●	●
	F1	NC auto-drain (no press→no exhaust) drain outlet Rc1/8 Max. working press 1.5 MPa, max. operating amb temp 45°C				●	●	●	●
Bowl material	Blank	Metal bowl				●	●	●	●
Element	Blank	5 μm				●	●	●	●
	Y	0.3 μm				●	●	●	●
Diff press detect	Blank	Without differential pressure detection port				●	●	●	●
	Q	With differential pressure detection port (Rc1/4)						●	●
Flow direction	Blank	Standard flow (left → right)				●	●	●	●
	X1	Reverse flow (right → left)				●	●	●	●
E Display unit									
Blank	MPa display (Rc thread), psi display (NPT thread), bar display (G thread)					●	●	●	●
J1	MPa display (NPT, G thread)					●	●	●	●
F Other attachments									
Blank	Not included					●	●	●	●
A8*W	1/4 pipe adaptor set					●	●		
A10*W	3/8 pipe adaptor set					●	●		
A15*W	1/2 pipe adaptor set					●	●		
A20*W	3/4 pipe adaptor set						●	●	●
A25*W	1 pipe adaptor set							●	●
A32*W	1 1/4 pipe adaptor set							●	●
* Adaptor thread									
Blank	Rc thread					●	●	●	●
N	NPT thread					●	●	●	●
G	G thread					●	●	●	●
G Bracket (included)									
Blank	Not included					●	●	●	●
BW	C type bracket					●	●	●	●

⚠ Precautions for model No. selection

- *1 : NPT and G threads are available for IN, OUT, and drain ports.
- *2 : Select options for the drainage, bowl material, element and differential pressure detection. When selecting options for several items, list options in order from the top.
- *3 : Refer to page 354 for the auto-drain usage conditions.
- *4 : Only drain discharge "F" and "F1" of FM8000-W are large auto-drain.
- *5 : The pipe adaptor set and C type bracket cannot be used together.
- *6 : The joiner set is enclosed with the pipe adaptor set.

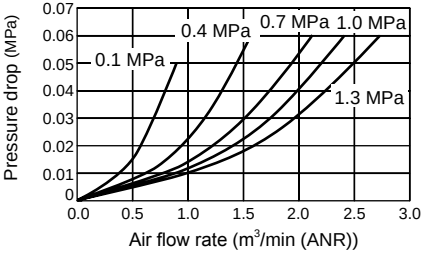
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube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

Air Filter Series

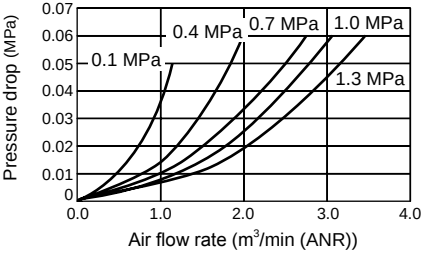
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac- remove Filtr
Film Resist FR
Oil-ProhrR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner
Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneur
AirBoost
Speed Ctrl
Silncr
CheckV/ other
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

Flow characteristics

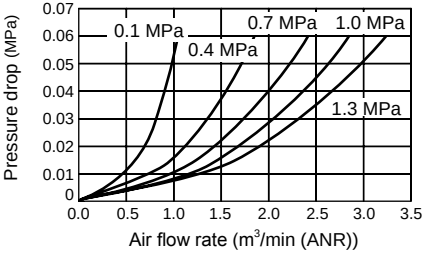
● FM3000-8-W



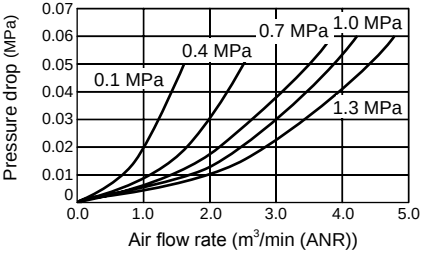
● FM3000-10-W



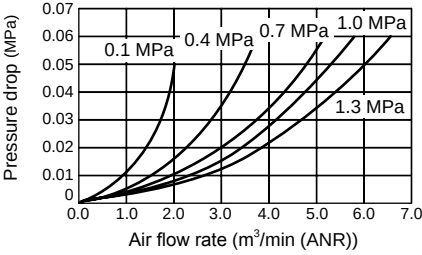
● FM4000-8-W



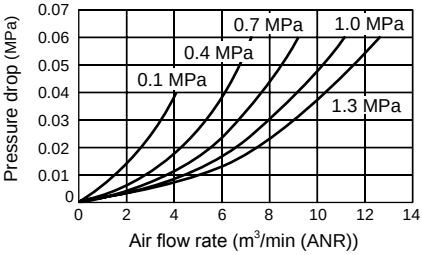
● FM4000-10-W



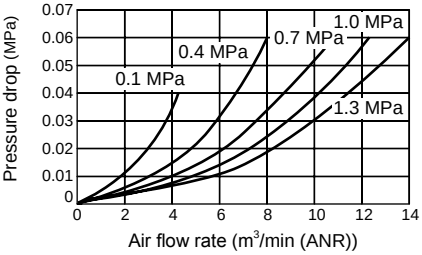
● FM4000-15-W



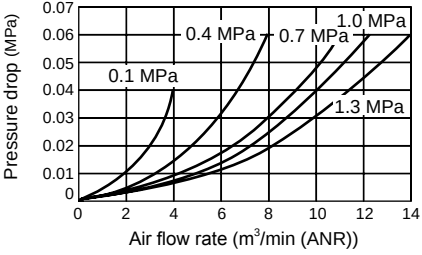
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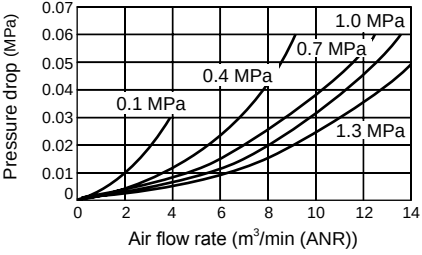
● FM6000-25-W



● FM8000-20-W

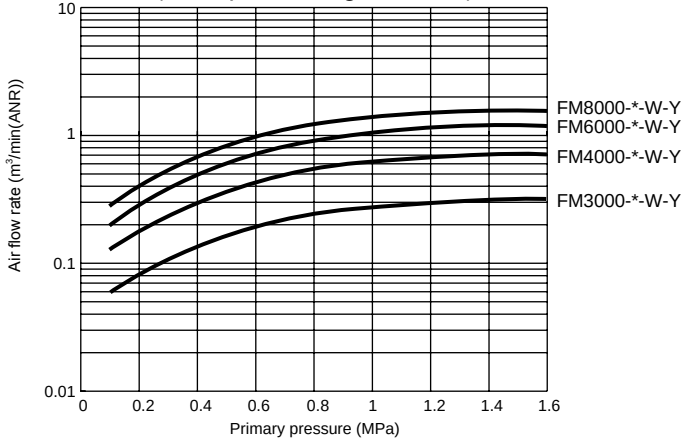


● FM8000-25-W



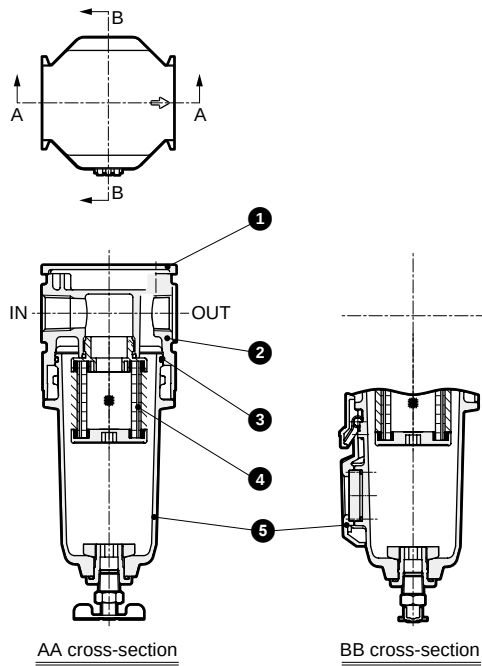
- FM3000
- FM4000
- FM6000
- FM8000

(Max. processing flow rate)

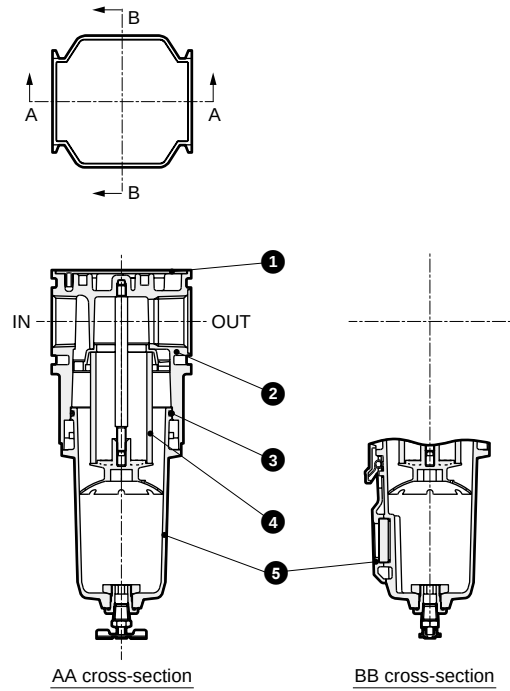


Internal structure and parts list

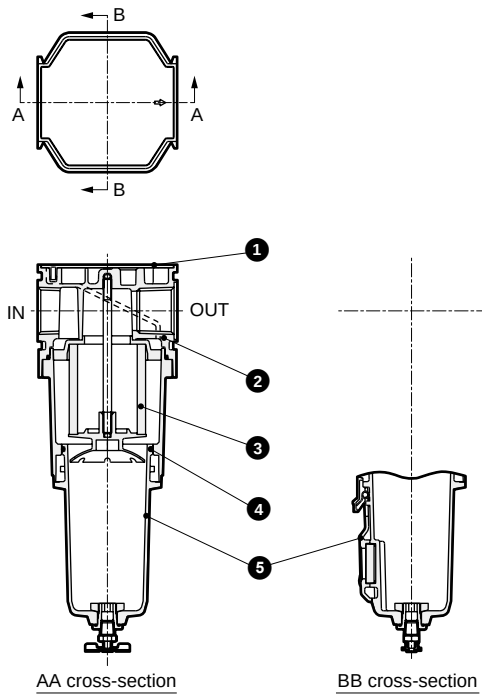
● FM3000-W/FM4000-W



● FM6000-W



● FM8000-W



No.	Part name	Material
(1)	Plate cover	ABS resin
(2)	Body	Aluminum alloy die-casting
(3)	O-ring	Special nitrile rubber
(4)	Element (5 μm)	Polypropylene
	Element (0.3 μm)	-
(5)	Metal bowl assembly	Aluminum alloy die-casting, copper alloy, glass, nitrile rubber, steel, stainless steel

*1: Refer to pages 114 to 115 for repair parts element, repair kit and bowl assembly.

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
Outdrrs 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
WaterRISens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
Gas
generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

Air Filter Series

F.R.L. Dimensions

● FM3000-W

F (Filtr)

R (Reg)

L (Lub)

Drain

Separ

Mech

Press SW

Res press

exh valve

SlowStart

Anti-bac/Bac-

remove Filtr

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

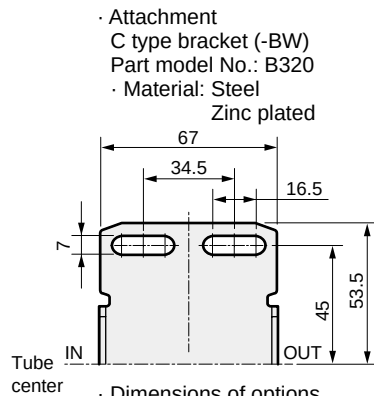
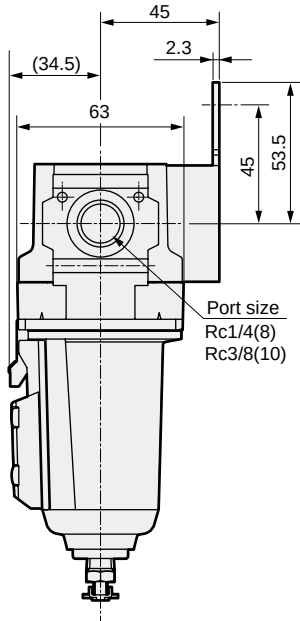
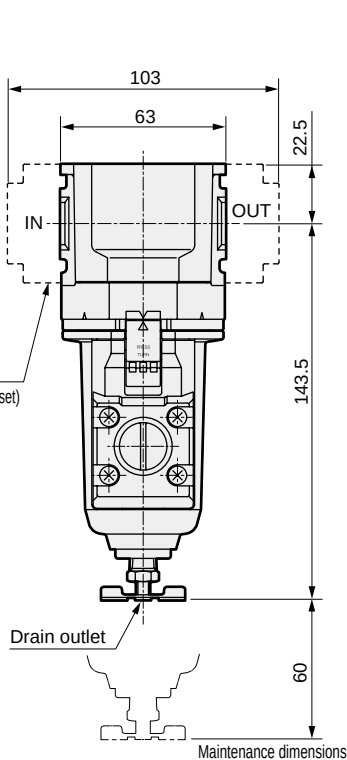
HiPolymDry

MainFiltr

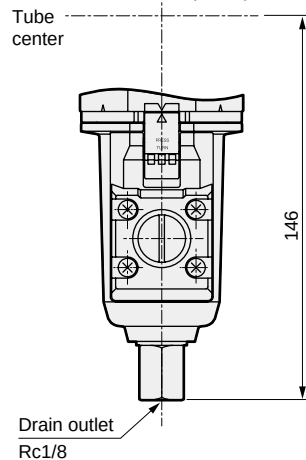
Dischrg

etc

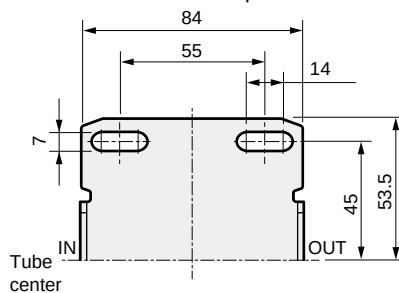
Ending



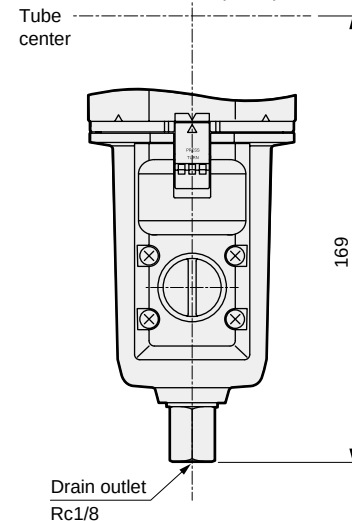
· Attachment
C type bracket (-BW)
Part model No.: B320
· Material: Steel
Zinc plated



· Attachment
C type bracket (-BW)
Part model No.: B420
· Material: Steel
Zinc plated



· Dimensions of options
Auto-drain (F, F1)



Drain outlet
Rc1/8

Dimensions

● FM4000-W

F (Filtr)

R (Reg)

L (Lub)

Drain

Separ

Mech

Press SW

Res press

exh valve

SlowStart

Anti-bac/Bac-

remove Filtr

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

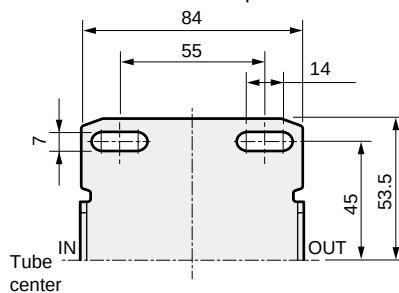
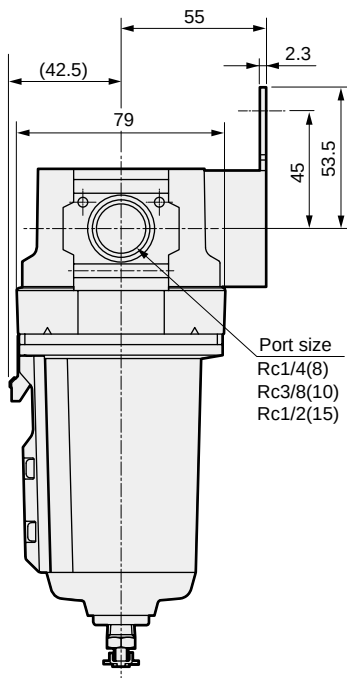
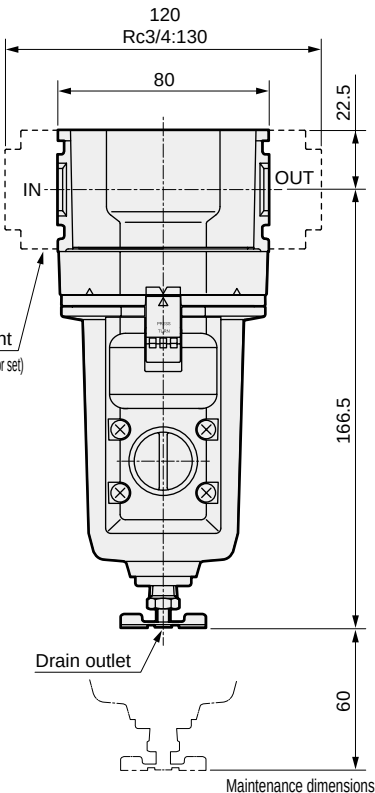
HiPolymDry

MainFiltr

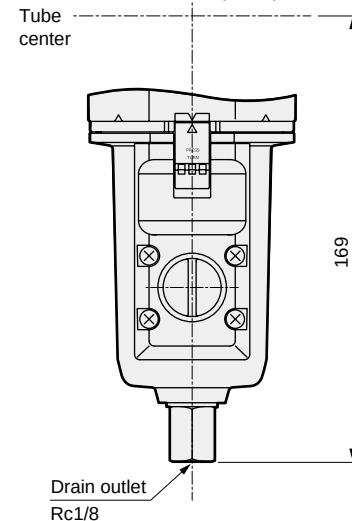
Dischrg

etc

Ending



· Dimensions of options
Auto-drain (F, F1)

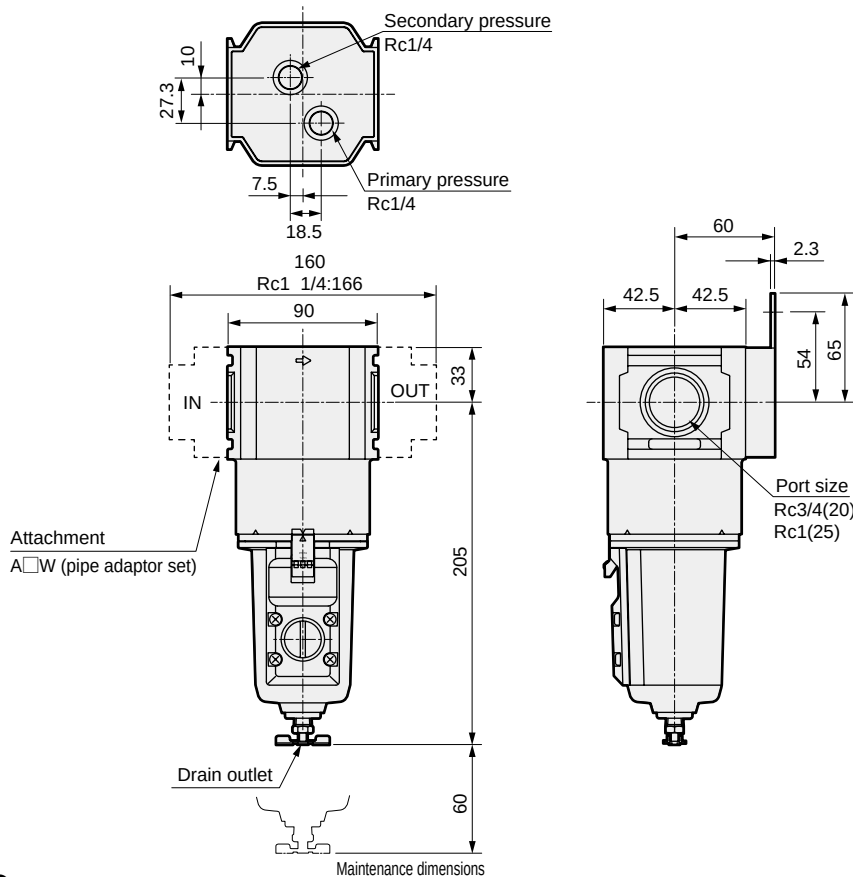


Drain outlet
Rc1/8

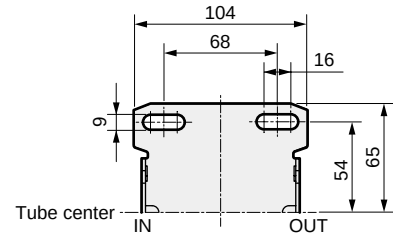
Dimensions

● FM6000-W

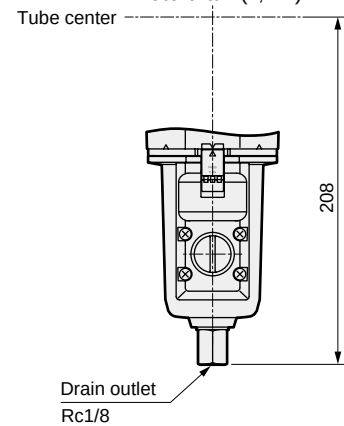
- Dimensions of options
- With differential pressure detection port (Q)



- Attachment
- C type bracket (-BW)
- Part model No.: B620
- Material: Steel
- Zinc plated

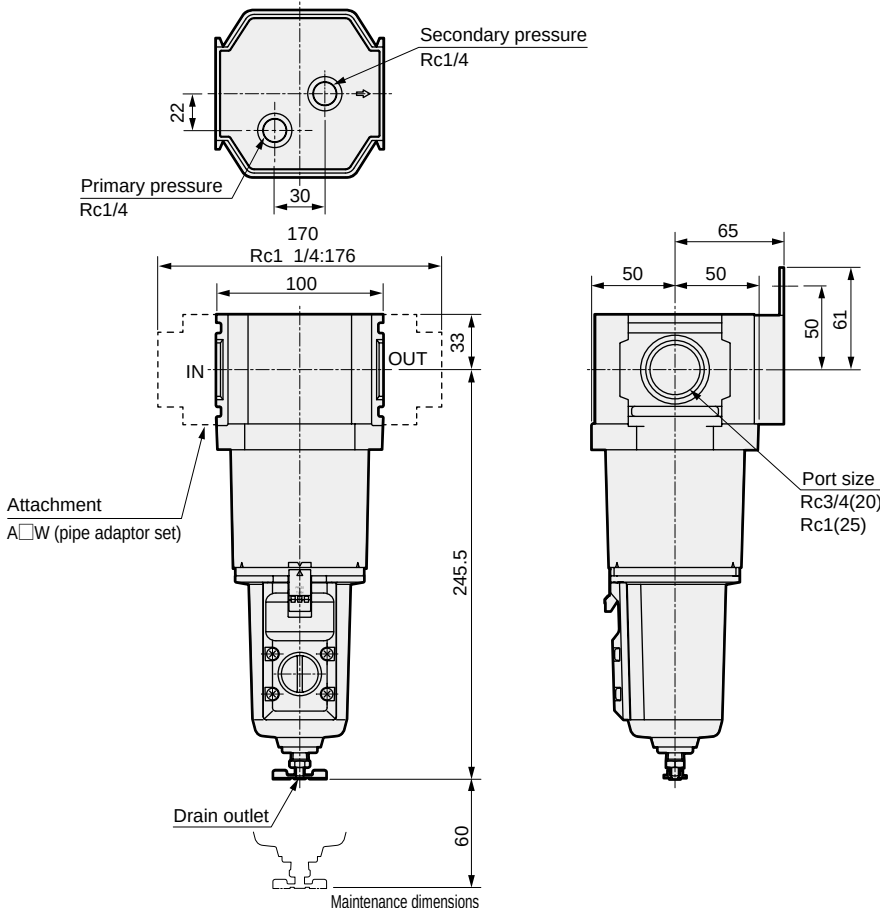


- Dimensions of options
- Auto-drain (F, F1)

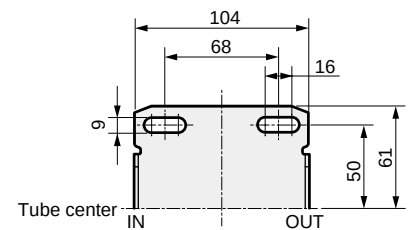


● FM8000-W

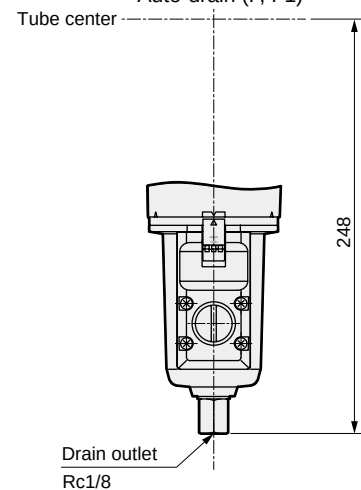
- Dimensions of options
- With differential pressure detection port (Q)



- Attachment
- C type bracket (-BW)
- Part model No.: B820
- Material: Steel
- Zinc plated



- Optional dimensions
- Auto-drain (F, F1)



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 Filtr
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
WaterRiSens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending