

Drain separator

# FX Series

Lightweight compact drain separator

Compatible compressor 0.75 kW to 37 kW

JIS symbol



## Specifications

Descriptions	FX1004	FX1011	FX1037
Working fluid	Compressed air		
Working pressure MPa	0.1 to 1.0 *3		
Proof pressure MPa	1.5		
Ambient / fluid temperatures °C	5 to 60		
Water separation efficiency %	99 *2		
Max. processing flow rate *1 l/min(ANR)	550	1800	6100
Port size Rc,NPT,G	1/4,3/8	1/4,3/8,1/2	3/4,1
Product weight kg	0.3	0.5	1.2

\*1: At inlet pressure 0.7 MPa.

\*2: Water separation efficiency during max. processing flow rate. (Evaporated water droplets (water vapor) cannot be separated)

\*3: In the case of "F1" with auto-drain, the min. working pressure of auto-drain is 0.15 MPa.

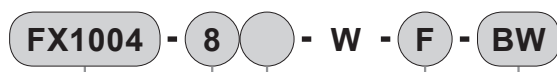
## Option weight

\* Add to the weight of the standard accessories.

Unit: kg

Code	Drain discharge			Bowl material
	C	F	F1	M
FX1004	0	0.02	0.02	0.1
FX1011	0	0.02	0.02	0.1
FX1037	0	0.02	0.02	0.1

### How to order



A Model No.		
FX1004	FX1011	FX1037

Code	Content	FX1004	FX1011	FX1037	
<b>B Port size</b>					
8	1/4	●	●		
10	3/8	●	●		
15	1/2		●		
20	3/4			●	
25	1			●	
<b>C Port thread</b>					
Blank	Rc thread	●	●	●	
N	NPT thread	●	●	●	
G	G thread	●	●	●	
<b>D Option *1, *2</b>					
Drain discharge	Blank	With manual drain cock (1/8 internal thread only for the metal bowl)	●	●	●
	C	With manual cock (can only be selected for the metal bowl)	●	●	●
	F	Auto-drain, man OVRD (NO: No press→Exhaust)	●	●	●
	F1	Auto-drain, man OVRD (NC: No press→No exhaust)	●	●	●
Bowl material	Blank	Polycarbonate bowl	●	●	●
	Z	Nylon bowl	●	●	●
	M	Metal bowl	●	●	●
	M1	Metal bowl with manual drain cock	●	●	●
Flow Direction	Blank	Standard flow (left → right)	●	●	●
	X1	Reverse flow (right → left)	●	●	●
<b>E Attachments *3, *4</b>					
Blank	Not attached	●	●	●	
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			●	
BW	C bracket	●	●	●	
<b>* Adaptor thread</b>					
Blank	Rc thread	●	●	●	
N	NPT thread	●	●	●	
G	G thread	●	●	●	

### ⚠ Precautions for model No. selection

- \*1 : Select options for the drainage, bowl material, and flow direction.  
When selecting options for several items, list options in order from the top.  
For port thread types "N" and "G", the combination of "Blank" for drain discharge and "M" for bowl material cannot be selected.
- \*2: Refer to page 220 for the auto-drain usage conditions.
- \*3 : The pipe adaptor set and C type bracket cannot be used together.
- \*4 : The joiner set is enclosed with the pipe adaptor set.

### Replacement parts list

#### Bowl guard

Bowl guard model No.	For polycarbonate bowl	For nylon bowl
FX1004	F3000-W-BOWL-GUARD	F3000-W-BOWL-GUARD-Z
FX1011,FX1037	F4000-W-BOWL-GUARD	F4000-W-BOWL-GUARD-Z

#### Bowl assembly (set of bowl assembly and bowl O-ring)

Bowl assembly model No.	PC bowl assembly with manual cock	PA bowl assembly with manual cock	Metal bowl assembly with manual cock	Metal bowl assembly with Rc1/8 internal thread	Metal bowl assembly with manual cock
FX1004	F3000-W-BOWL	F3000-W-BOWL-Z	F3000-W-BOWL-M	FX1004-W-BOWL-M	F3000-W-BOWL-M1
FX1011,FX1037	F4000-W-BOWL	F4000-W-BOWL-Z	F4000-W-BOWL-M	FX1011-W-BOWL-M	F4000-W-BOWL-M1

Bowl assembly model No.	PC bowl assembly with NO auto-drain	PA bowl assembly with NO auto-drain	Metal bowl assembly with NO auto-drain	Metal bowl assembly with NO auto-drain
FX1004	F3000-W-BOWL-F	F3000-W-BOWL-FZ	F3000-W-BOWL-FM	F3000-W-BOWL-FM1
FX1011	F4000-W-BOWL-F	F4000-W-BOWL-FZ	F4000-W-BOWL-FM	F4000-W-BOWL-FM1
FX1037	F8000-W-BOWL-FF	F8000-W-BOWL-FFZ	F8000-W-BOWL-FFM	F8000-W-BOWL-FFM1

Bowl assembly model No.	PC bowl assembly with NC auto-drain	PA bowl assembly with NC auto-drain	Metal bowl assembly with NC auto-drain	Metal bowl assembly with NC auto-drain
FX1004	M3000-W-BOWL-F1	M3000-W-BOWL-F1Z	M3000-W-BOWL-F1M	M3000-W-BOWL-F1M1
FX1011	M4000-W-BOWL-F1	M4000-W-BOWL-F1Z	M4000-W-BOWL-F1M	M4000-W-BOWL-F1M1
FX1037	F8000-W-BOWL-FF1	F8000-W-BOWL-FF1Z	F8000-W-BOWL-FF1M	F8000-W-BOWL-FF1M1

INDEX

Precautions

Dryer system list

Refrigeration dryer

Desiccant dryer

High polymer membrane dryer

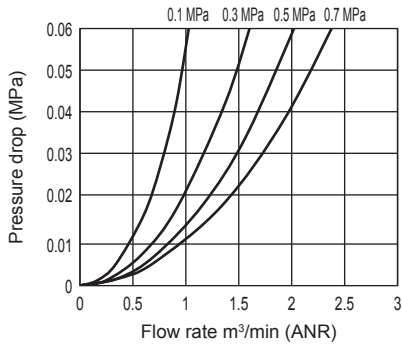
Air filter

Drain discharger, etc.

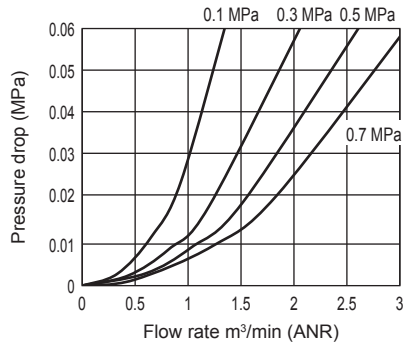
Flow rate sensor

## Flow characteristics

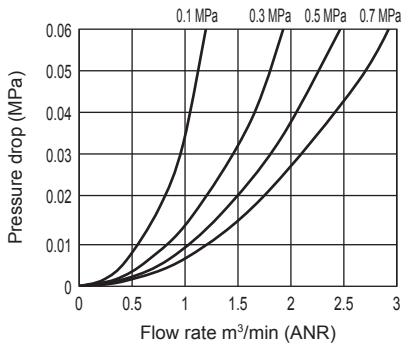
● FX1004-8-W



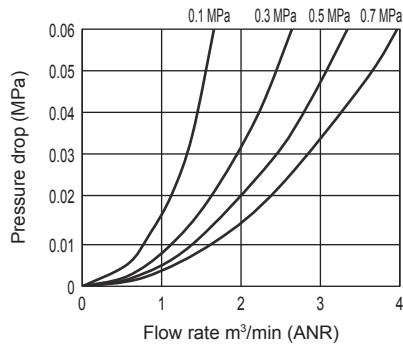
● FX1004-10-W



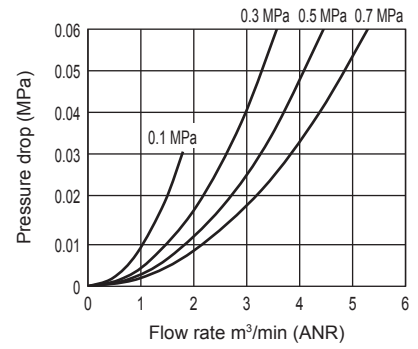
● FX1011-8-W



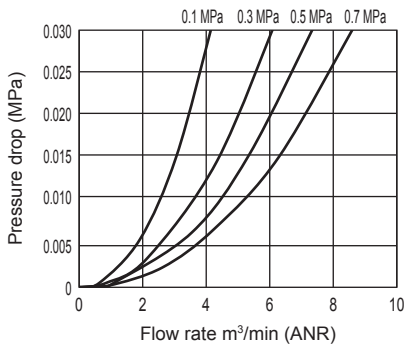
● FX1011-10-W



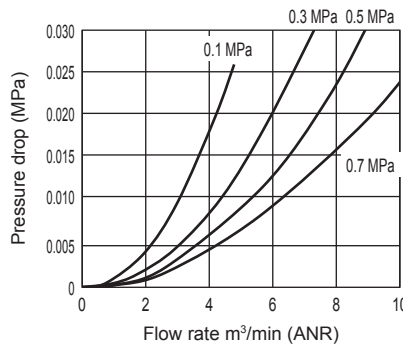
● FX1011-15-W



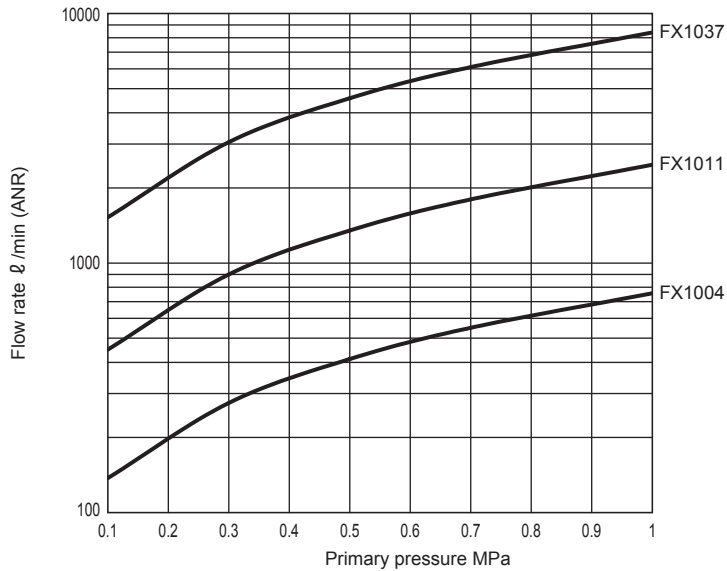
● FX1037-20-W



● FX1037-25-W

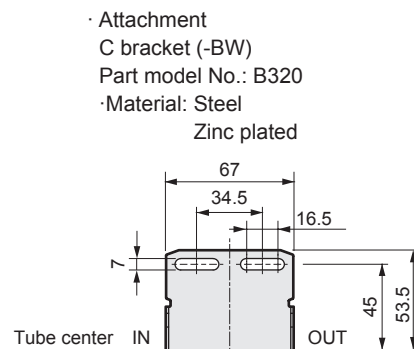
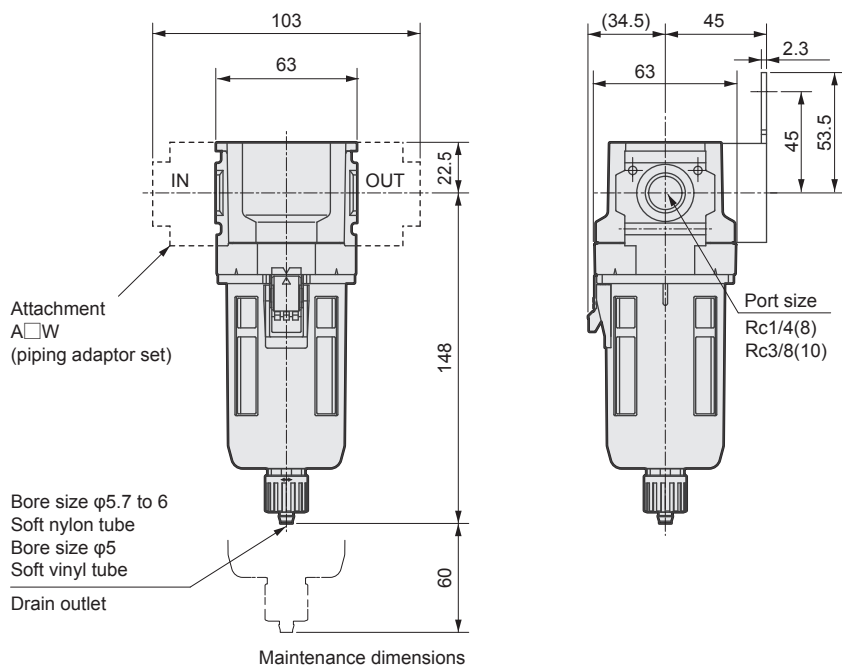


### Max. processing flow rate



**Dimensions**

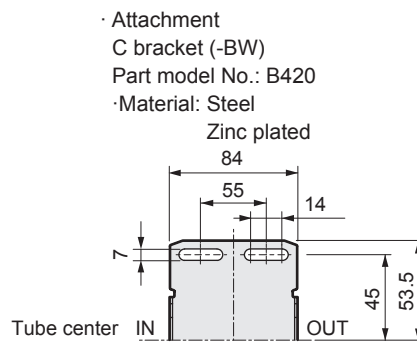
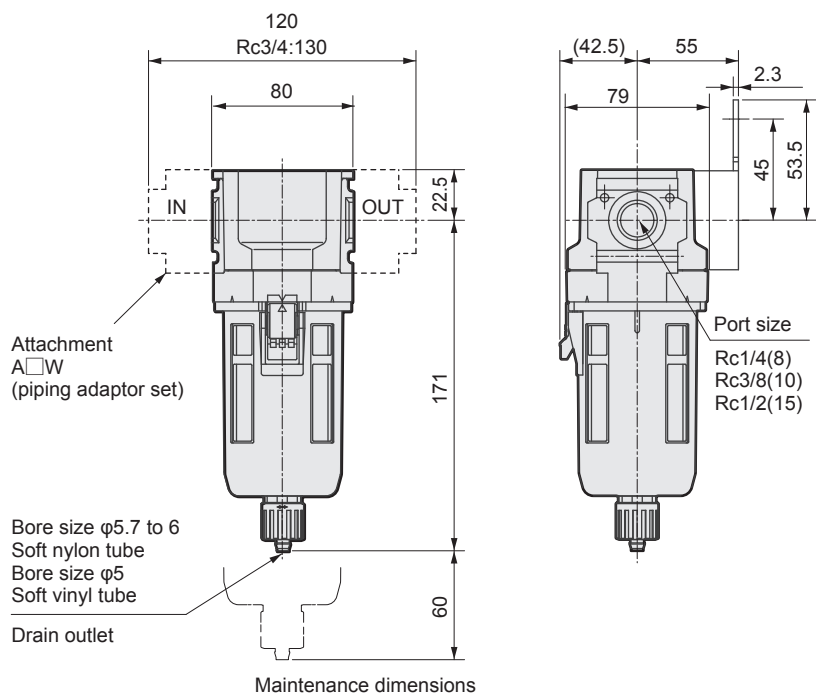
● FX1004-W



● For the plastic bowl, the dimensions of the manual cock and the auto-drain are the same.

Note: The C bracket and pipe adaptor set attachments cannot be used together.

● FX1011-W



● For the plastic bowl, the dimensions of the manual cock and the auto-drain are the same.

Note: The C bracket and pipe adaptor set attachments cannot be used together.

INDEX

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system list

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dryer

Desiccant  
dryer

High polymer  
membrane dryer

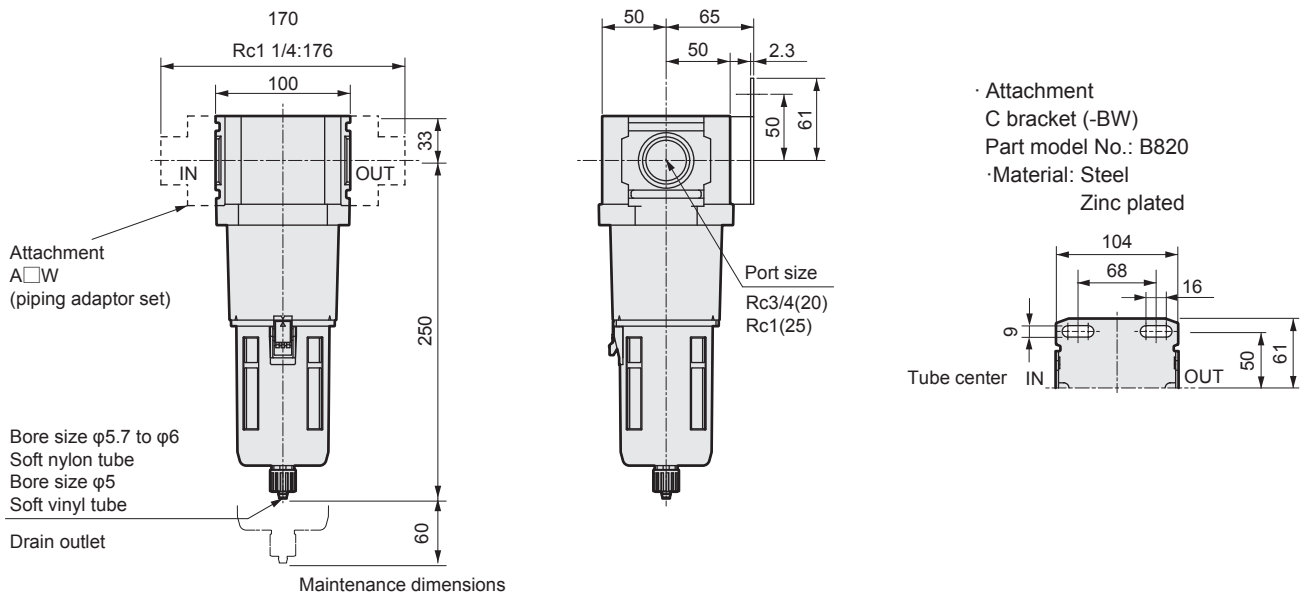
Air filter

Drain discharger,  
etc.

Flow rate sensor

## Dimensions

### ● FX1037-W



● For the plastic bowl, the dimensions of the manual cock and the auto-drain are the same.

Note: The C bracket and pipe adaptor set attachments cannot be used together.

## Optional dimensions

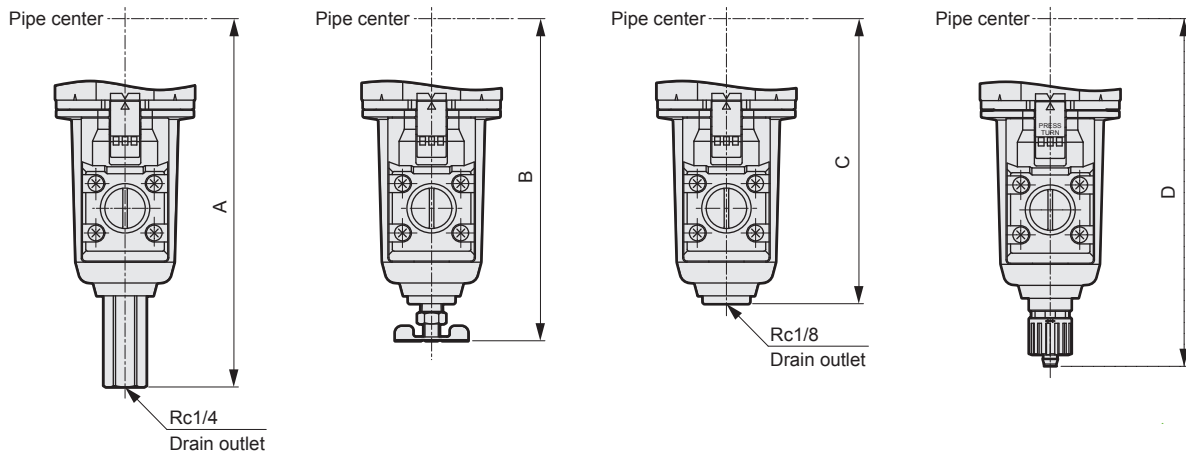
### ● Metal bowl FX1004-W/FX1011-W/FX1037-W (option)

Metal bowl (FM, F1M)  
with auto-drain

Metal bowl (CM)  
with manual cock

Metal bowl (M)  
without cock

Metal bowl (CM1, FM1, F1M1)  
with manual cock



## Dimensions table

Model No.	FM/F1M	CM	M	CM1/FM1/F1M1
	A	B	C	D
FX1004	164	143.5	127	154
FX1011	187	166.5	150	177
FX1037	266	245.5	229	256