

Drain separator

FX Series

Lightweight compact drain separator Applicable compressors 0.75 kW to 37 kW

● Port size: 1/4 to 1

JIS symbol



RoHS CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item		FX1004	FX1011	FX1037
Working fluid		Compressed air		
Working pressure	MPa	0.1 (≈15 psi, 1 bar) to 1.0 (≈145 psi, 10 bar) *3		
Proof pressure	MPa	1.5 (≈217 psi, 15 bar)		
Ambient/fluid temperatures	°C	5 (41°F) to 60 (140°F)		
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

FX1004 - 8 ( ) - W - F - BW

- Ⓐ Model No.
- Ⓑ Port size
- Ⓒ Port thread
- Ⓓ Option
- Ⓔ Attachment

Code	Description	Ⓐ Model No. FX1004	FX1011	FX1037
Ⓑ Port size				
8	1/4	●	●	
10	3/8	●	●	
15	1/2		●	
20	3/4			●
25	1			●
Ⓒ Port thread				
Blank	Rc thread	●	●	●
N	NPT thread	●	●	●
G	G thread	●	●	●
Ⓓ Option *1, 2				
Drain discharge **Blank**	With manual drain cock (1/8 internal thread only for metal bowl)	●	●	●
C	With manual cock (can only be selected for metal bowl)	●	●	●
F	Auto-drain with manual override (NO: Exhaust when not pressurized)	●	●	●
F1	Auto-drain with manual override (NC: No exhaust when not pressurized)	●	●	●
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)	●	●	●
Ⓔ Attachment *3, *4				
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			●
BW	C-bracket	●	●	●
*** Adaptor thread**				
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.

***2: Refer to page 354 for the auto-drain usage conditions.**

*3: The pipe adaptor set and C type bracket cannot be used together.

*4: The joiner set is included with the pipe adaptor set.

Replacement parts list

Bowl guard

Bowl guard model No. / Model	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)

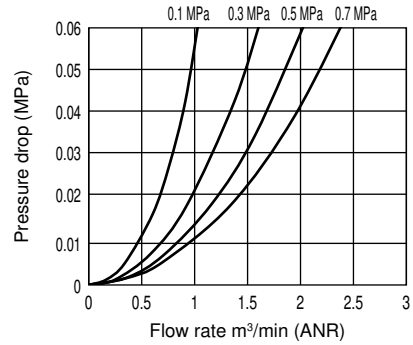
Bowl assembly model No. / Model	PC bowl assembly with manual cock	PA bowl assembly with manual cock	Metal bowl assembly with manual cock	Metal bowl assembly with Rc1/8 female thread	Metal bowl assembly with manual cock
FX1004	F3000-W-BOWL	F3000-W-BOWL-Z	F3000-W-BOWL-M	FX1004-W-BOWL-M	F3000-W-BOWL-M1
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. / Model	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

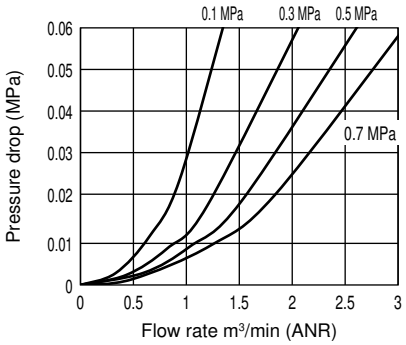
Bowl assembly model No. / Model	PC bowl assembly with NC auto-drain	PA bowl assembly with NC auto-drain	Metal bowl assembly with NC auto-drain	Metal bowl assembly with NC auto-drain
FX1004	M3000-W-BOWL-F1	M3000-W-BOWL-F1Z	M3000-W-BOWL-F1M	M3000-W-BOWL-F1M1
FX1011	M4000-W-BOWL-F1	M4000-W-BOWL-F1Z	M4000-W-BOWL-F1M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

Flow characteristics

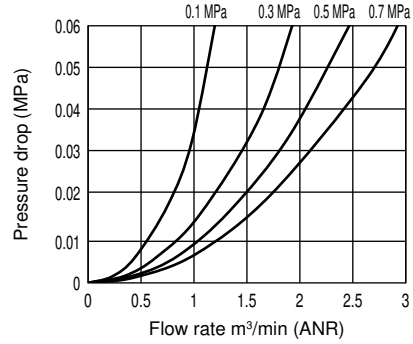
● FX1004-8-W



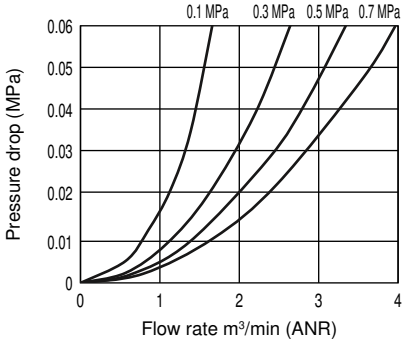
● FX1004-10-W



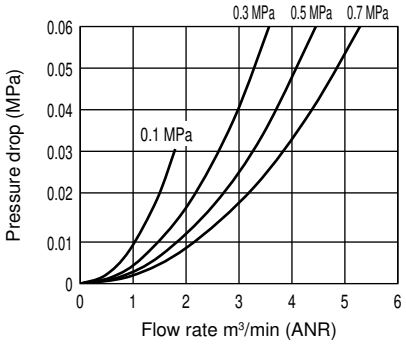
● FX1011-8-W



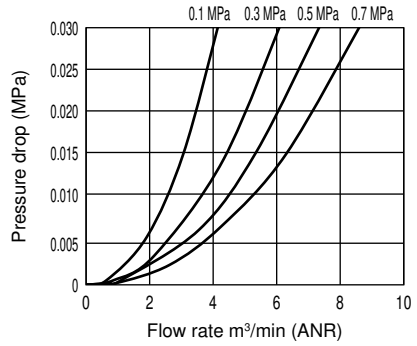
● FX1011-10-W



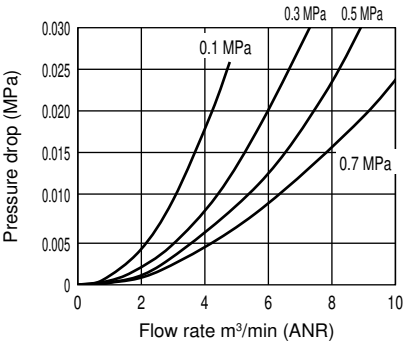
● FX1011-15-W



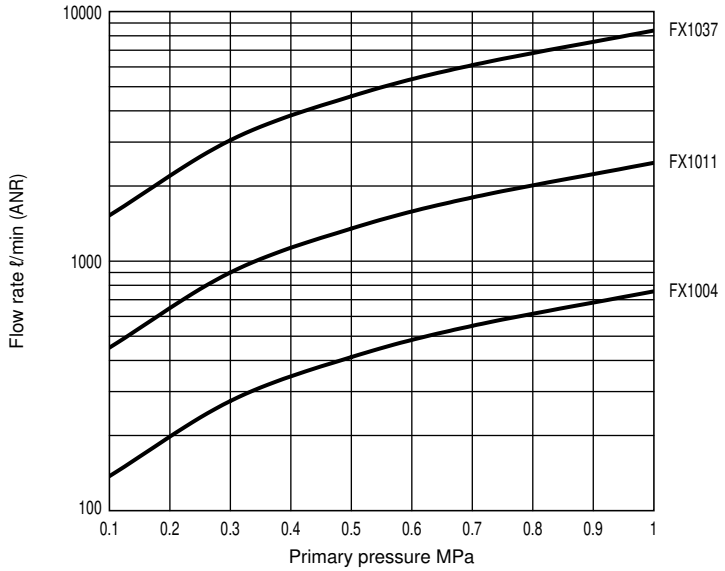
● FX1037-20-W



● FX1037-25-W

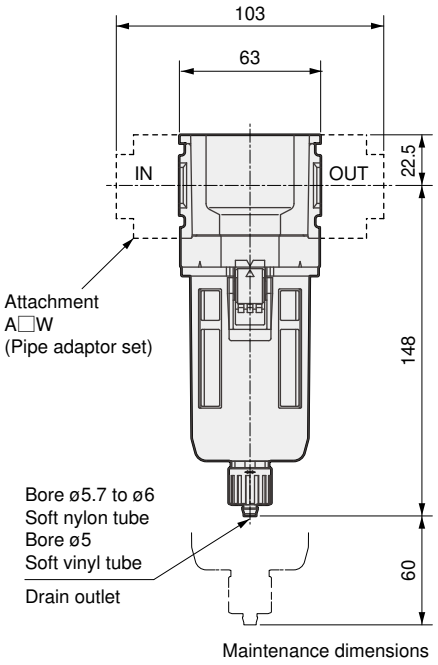


Max. processing flow rate

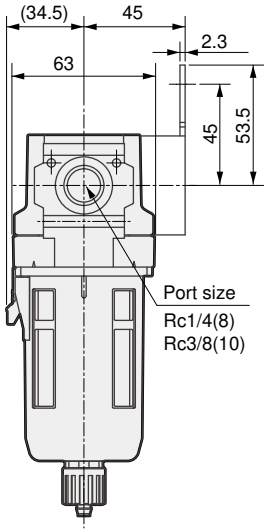


Dimensions

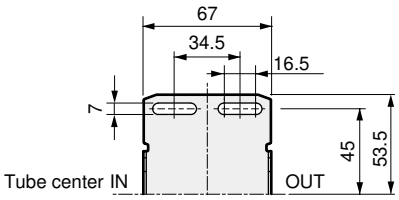
● FX1004-W



Maintenance dimensions



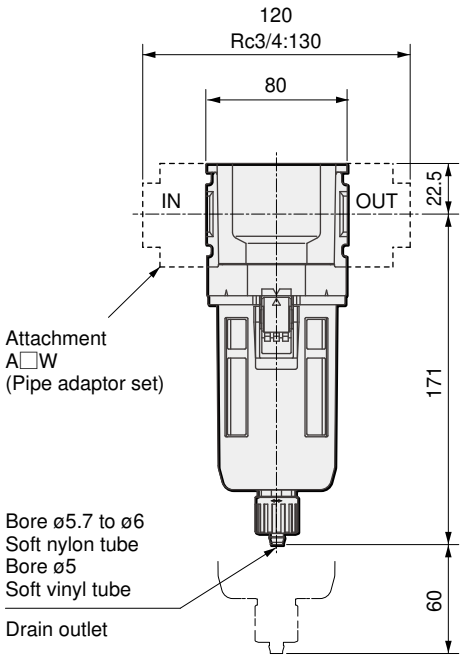
· Attachment
C-bracket (-BW)
Part model No.: B320
· Material: Steel
Zinc plated



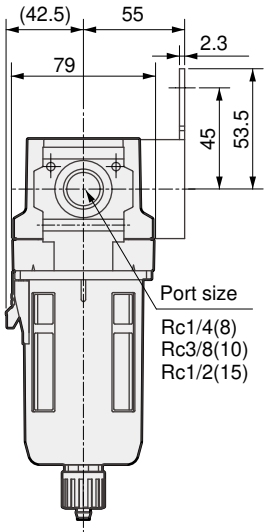
● For the plastic bowl, the dimensions of the manual cock and the auto-drain are the same.

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

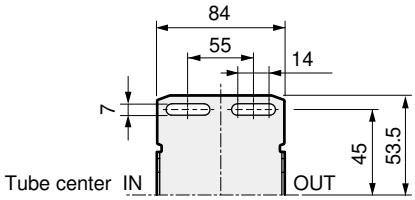
● FX1011-W



Maintenance dimensions



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

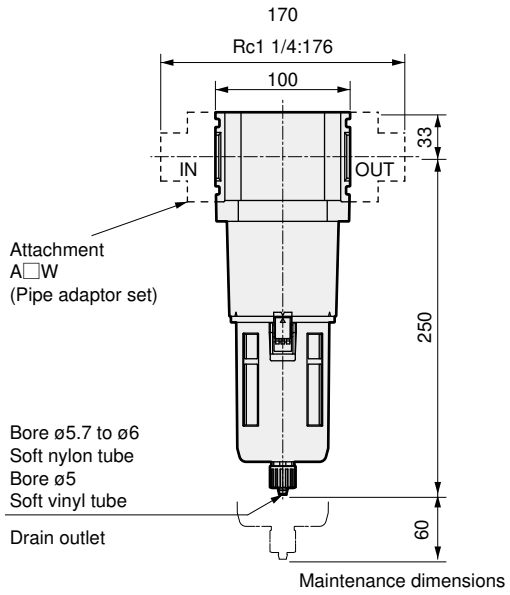


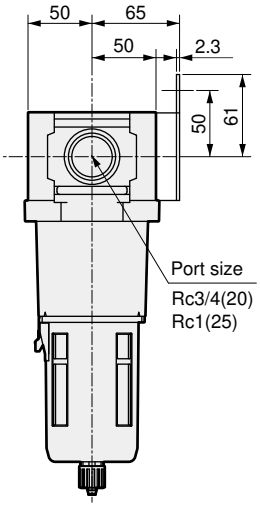
● For the plastic bowl, the dimensions of the manual cock and the auto-drain are the same.

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

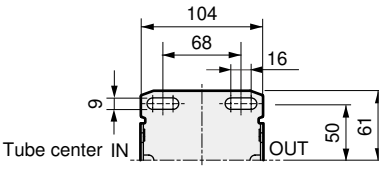
Dimensions

● FX1037-W





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



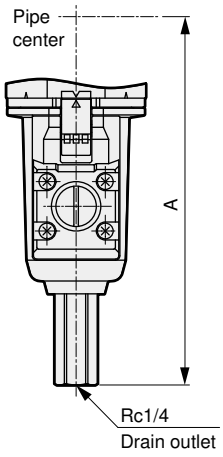
● For the plastic bowl, the dimensions of the manual cock and the auto-drain are the same.

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

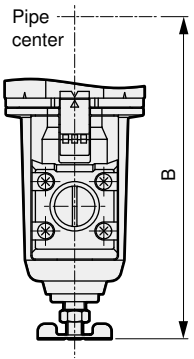
Optional dimensions

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

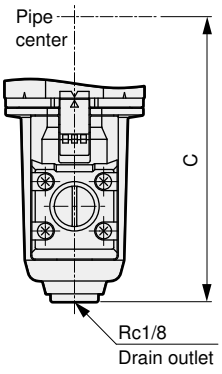
Metal bowl with auto-drain (FM, F1M)



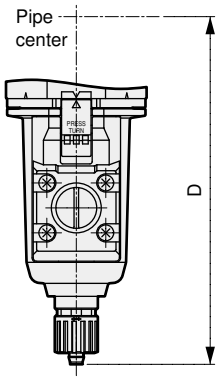
Metal bowl with manual cock (CM)



Metal bowl without cock (M)



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



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