



Drain separator

FX Series

Lightweight compact drain separator Applicable compressors 0.75 kW to 37 kW

● Port size: 1/4 to 1

JIS symbol



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.

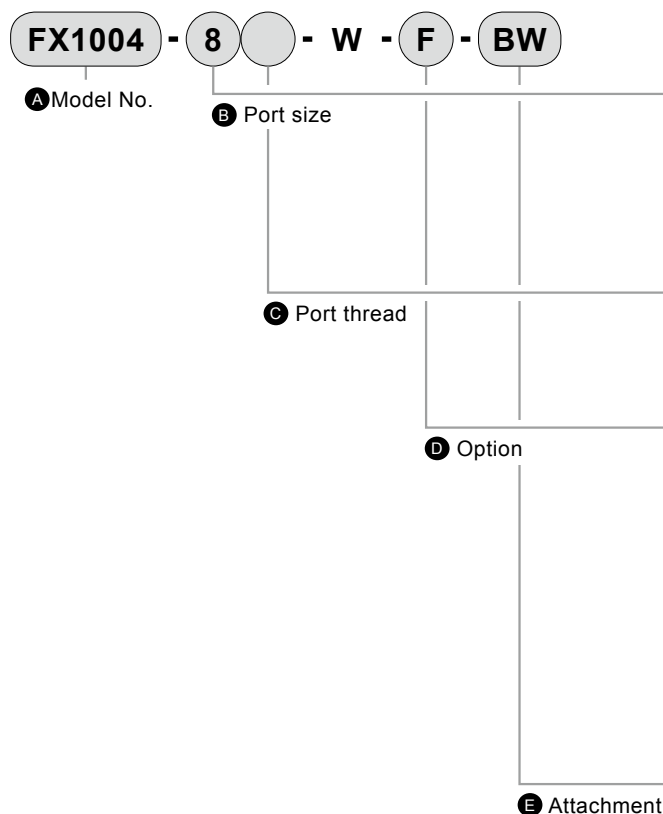
Option weight

* 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



Code	Description	FX	FX	FX				
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 *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)			●	●	●	●
E 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.	For polycarbonate bowl	For nylon bowl
Model		
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)

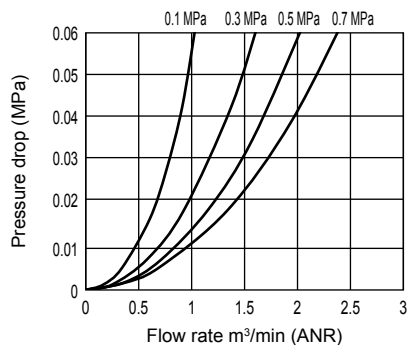
Bowl assembly model No.	PC bowl assembly with manual cock	PA bowl assembly with manual cock	Metal bowl assembly with manual cock	Metal bowl assembly with Rc1/8 female thread	Metal bowl assembly with manual cock
Model					
FX1004	F3000-W-BOWL	F3000-W-BOWL-Z	F3000-W-BOWL-M	FX1004-W-BOWL-M	F3000-W-BOWL-M1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

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

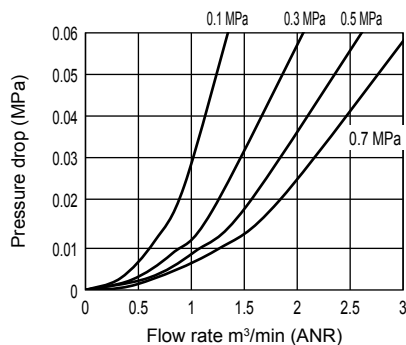
F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain
Separ
Mech
Press SW
Res press
exh valve
SlowStart
Anti-bac/Bac-
remove Filt
Film
Resist FR
Oil-ProhR
Med
Press FR
No Cu/
PTFE FRL
Outdrs FRL
Adapter
Joiner
Press
Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneur
AirBoost
Speed Ctrl
Silncr
CheckV/
other
Fit/Tube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

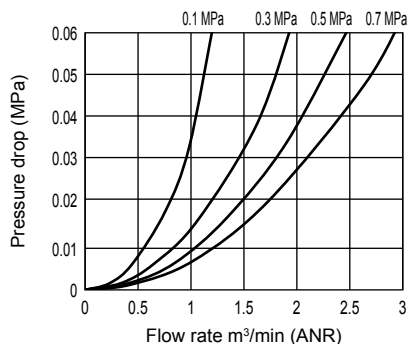
● FX1004-8-W



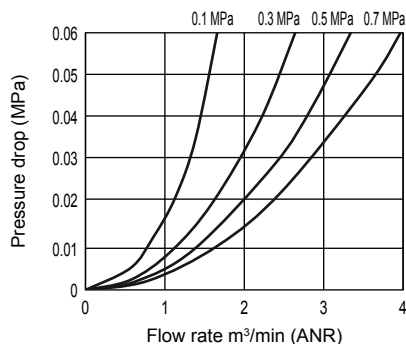
● FX1004-10-W



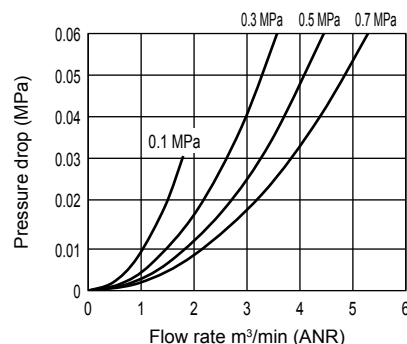
● FX1011-8-W



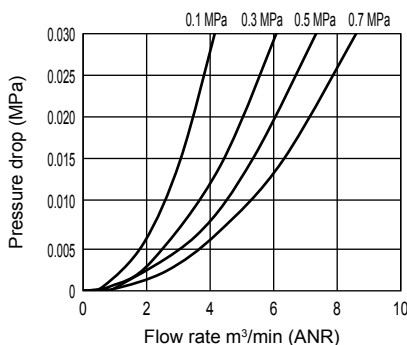
● FX1011-10-W



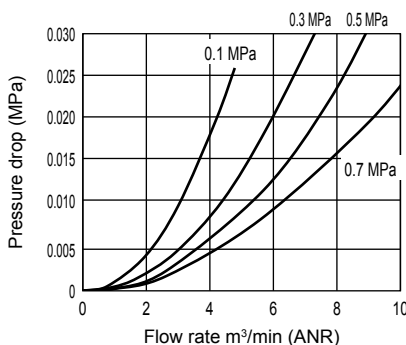
● FX1011-15-W



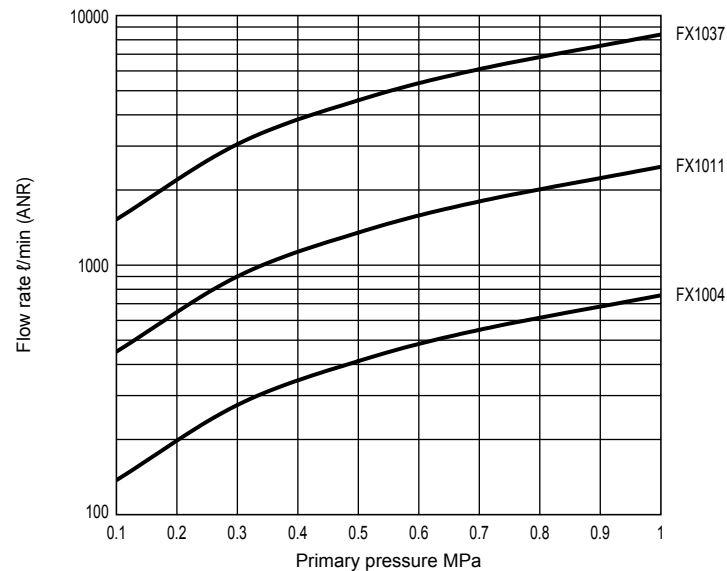
● FX1037-20-W



● FX1037-25-W

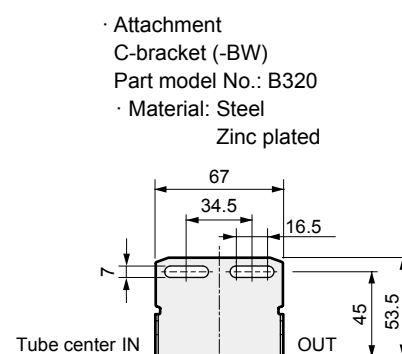
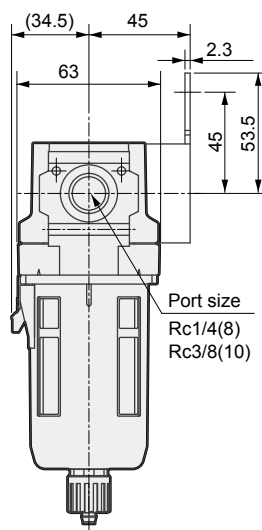
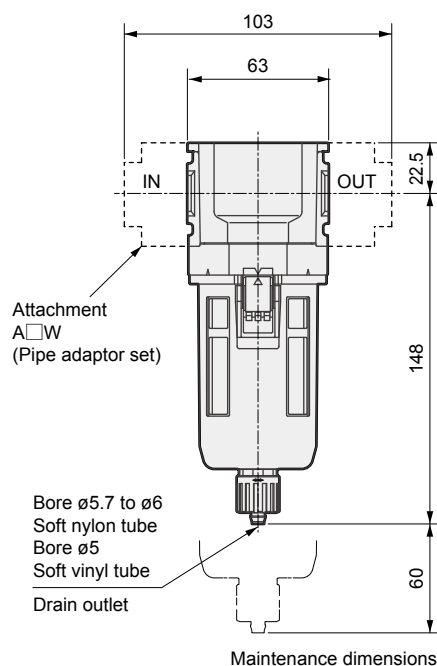


Max. processing flow rate



Dimensions

● FX1004-W

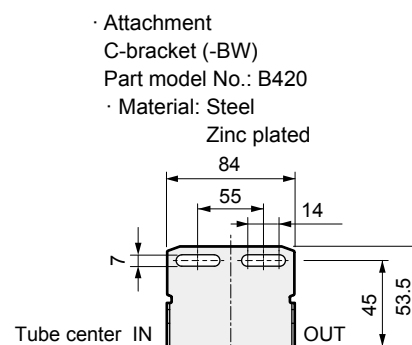
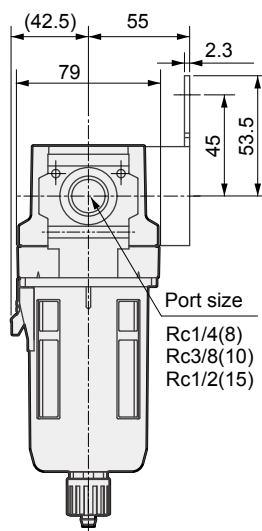
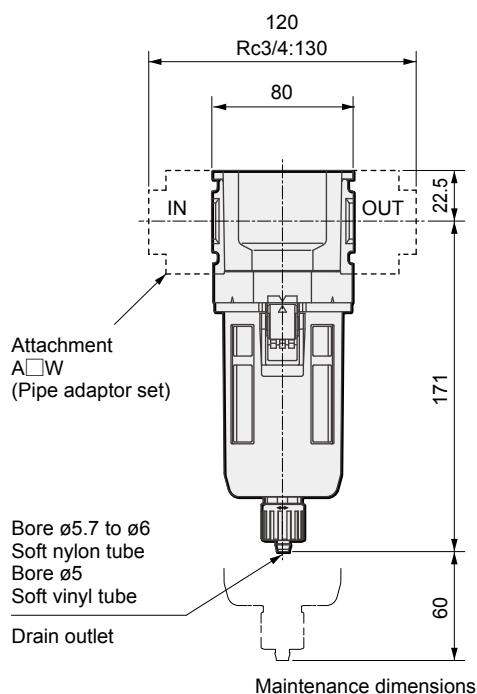


- Attachment C-bracket (-BW)
- Part model No.: B320
- Material: Steel
- Zinc plated

● 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



- 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.

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
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

F.R.L. Dimensions

F.R. ● FX1037-W

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

Outdrs FRL

Adapter

Joiner

Press

Gauge

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneR

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

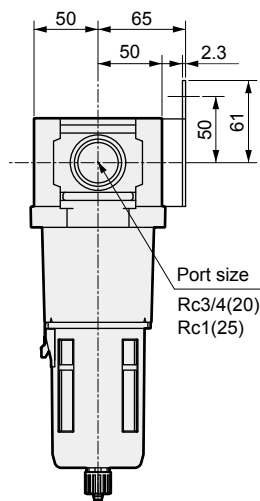
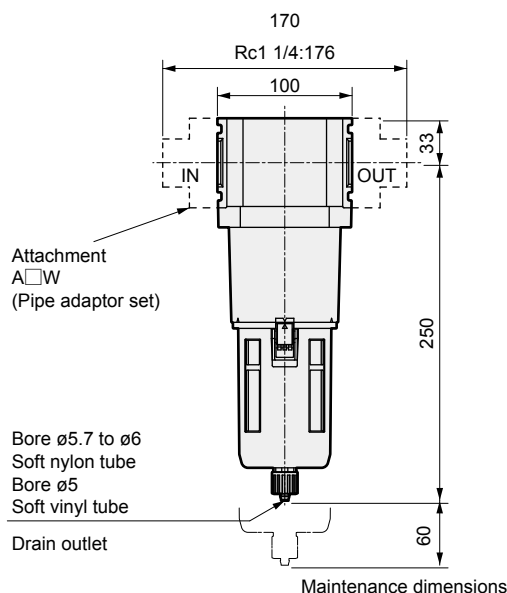
HiPolymDry

MainFiltr

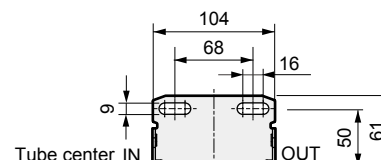
Dischrg

etc

Ending



· Attachment
C-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

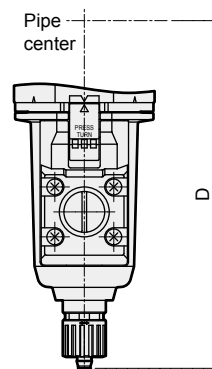
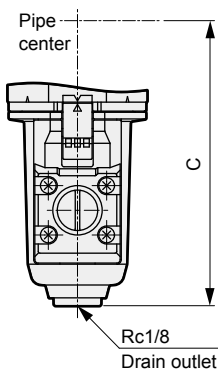
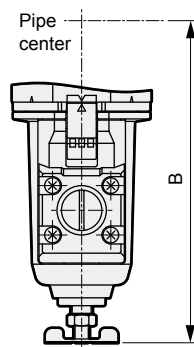
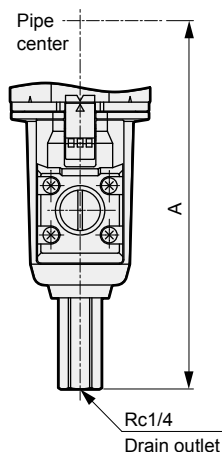
● Metal bowl FX1004-W/FX1011-W/FX1037-W (option)

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