



Anti-bacterial/bacteria-removing filter combination

SFC307/SFC407-FP2 Series

● Port size: 1/4 to 1/2

RoHS

CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item		SFC307	SFC407
Components	(1) Anti-bacterial pre-filter	SFC310	SFC410
	(2) Anti-bacterial high performance filter	SFC320	SFC420
	(3) Bacteria removing filter	SFC330	SFC430
Working fluid		Compressed air, nitrogen gas (N ₂), and carbon dioxide (CO ₂)	
Working pressure range MPa		0.1 (≈15 psi, 1 bar) to 1.0 (≈145 psi, 10 bar)	
Proof pressure MPa		1.5 (≈217 psi, 15 bar)	
Differential resistant pressure MPa		0.5 (≈72 psi, 5 bar)	
Ambient/fluid temperatures °C		5 (41°F) to 45 (113°F)	
Filtration μm		0.01 (removal efficiency 99.99%)	
Max. processing flow rate *1 l/min (ANR)		300	500
Port size Rc, NPT, G		1/4 / 3/8	1/4 / 3/8 / 1/2
Weight kg		0.96	1.61
Standard accessories		Maintenance label (included)	
Element replacement		1 year (6000 hours) or pressure drop 0.1 MPa	

*1: Use within the max. processing flow rate. This is the value when primary pressure is 0.7 MPa.

How to order

SFC307 - 10 - X1 - FP2		A Model No.	
A Model No.	B Port size	SFC307	SFC407
		●	●
C Port thread	D Flow direction	Blank	Rc thread
		●	●
E Port size	F Port thread	N	NPT thread
		●	●
G Port size	H Port thread	G	G thread
		●	●
I Flow direction	J Flow direction	Blank	Standard flow (left → right)
		●	●
K Flow direction	L Flow direction	X1	Reverse flow (right → left)
		●	●

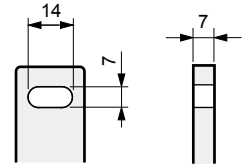
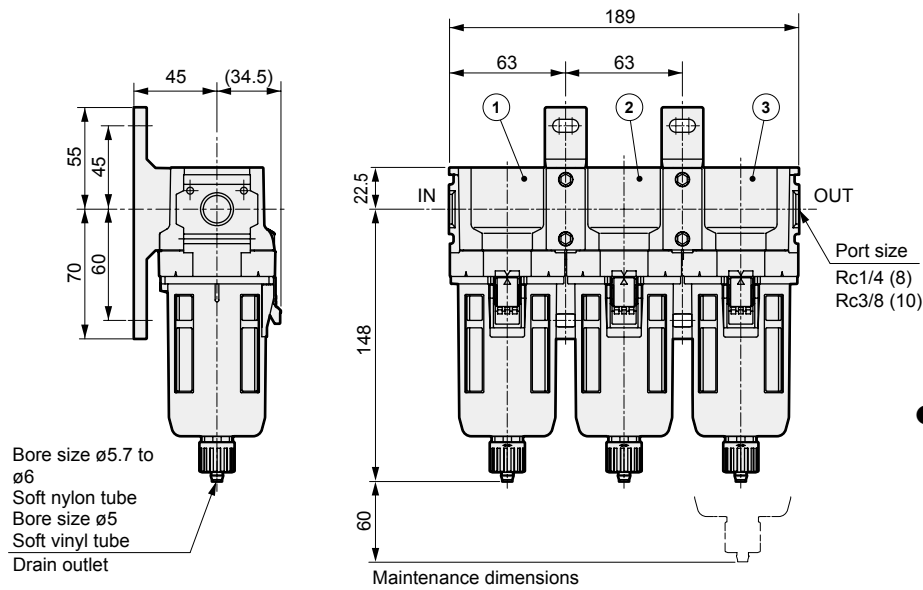
● Replacement model No. for single element unit

Element model No.	Anti-bacterial pre-filter element	Anti-bacterial high performance filter element	Bacteria removing filter element
Model			
SFC307	SFC310-ELEMENT	SFC320-ELEMENT	SFC330-ELEMENT
SFC407	SFC410-ELEMENT	SFC420-ELEMENT	SFC430-ELEMENT

Dimensions

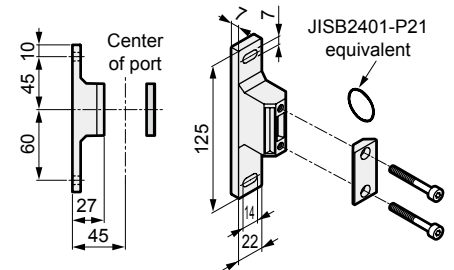


● SFC307



Enlarged view of bracket section

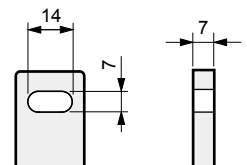
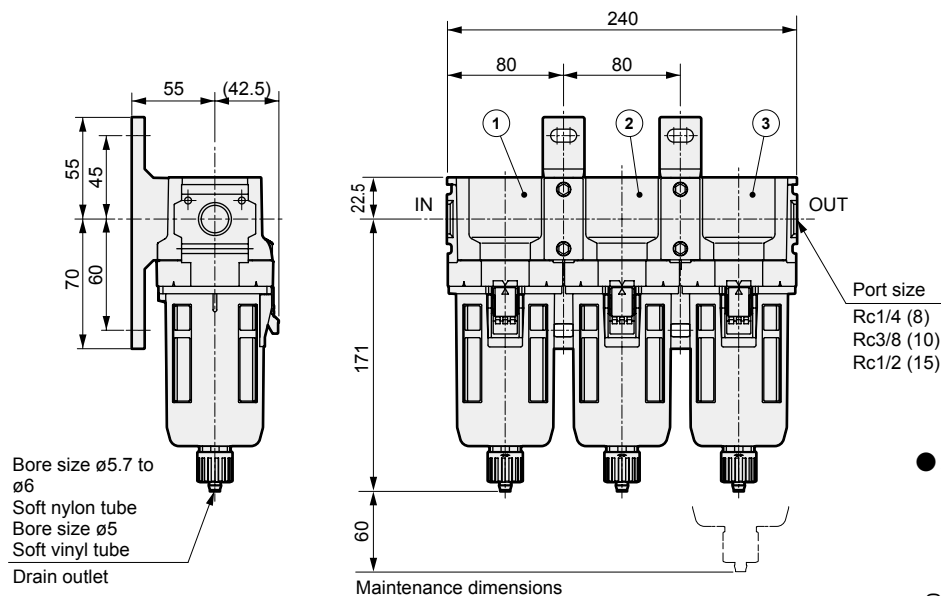
● Attachment
T-bracket
Model No.: SFB310-FP2



Material: Aluminum die-casting
Stainless steel mounting screws used

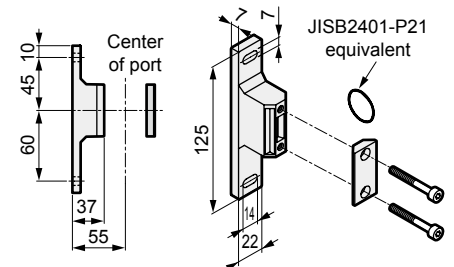
No.	Series
(1)	Anti-bacterial pre-filter
(2)	Anti-bacterial high performance filter
(3)	Bacteria removing filter

● SFC407



Enlarged view of bracket section

● Attachment
T-bracket
Model No.: SFB410-FP2



Material: Aluminum die-casting
Stainless steel mounting screws used

No.	Series
(1)	Anti-bacterial pre-filter
(2)	Anti-bacterial high performance filter
(3)	Bacteria removing filter

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
PresCompn
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

Material compatible with the Food Sanitation Act

FDA compliant materials

Anti-bacterial/bacteria-removing/odor removal filter combination

SFC309/SFC409-FP2 Series

● Port size: 1/4 to 1/2

RoHS

CAD



Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item		SFC309	SFC409
Components	(1) Anti-bacterial pre-filter	SFC310	SFC410
	(2) Anti-bacterial high performance filter	SFC320	SFC420
	(3) Odor removal filter	SFC340	SFC440
	(4) Bacteria removing filter	SFC330	SFC430
Working fluid		Compressed air, nitrogen gas (N ₂), and carbon dioxide (CO ₂)	
Working pressure range MPa		0.1 (≈15 psi, 1 bar) to 1.0 (≈145 psi, 10 bar)	
Proof pressure MPa		1.5 (≈217 psi, 15 bar)	
Differential resistant pressure MPa		0.5 (≈72 psi, 5 bar)	
Ambient/fluid temperatures °C		5 (41°F) to 45 (113°F)	
Filtration μm		0.01 (removal efficiency 99.99%)	
Secondary side oil concentration mg/m ³		0.003 or less *2	
Max. processing flow rate *1 l/min (ANR)		300	500
Port size Rc, NPT, G		1/4 / 3/8	1/4 / 3/8 / 1/2
Weight kg		1.24	2.13
Standard accessories		Maintenance label (included)	
Element replacement		1 year (6000 hours) or pressure drop 0.1 MPa *3	

*1: Use within the max. processing flow rate. This is the value when primary pressure is 0.7 MPa.

*2: When an oil mist filter (M Series M type) is installed on the primary side. Be sure to install an air dryer and oil mist filter on the primary side.

*3: The replacement time is not a guaranteed value. The replacement time may be reduced depending on the product's working environment, usage conditions, etc.

How to order

SFC309 - 10 - X1 - FP2

A Model No.

A Model No.

B Port size

C Port thread

D Flow direction

Code	Description	SFC309	SFC409
B Port size			
8	1/4	●	●
10	3/8	●	●
15	1/2		●
C Port thread			
Blank	Rc thread	●	●
N	NPT thread	●	●
G	G thread	●	●
D Flow direction			
Blank	Standard flow (left → right)	●	●
X1	Reverse flow (right → left)	●	●

● Replacement model No. for single element unit

Element model No.	Anti-bacterial pre-filter element	Anti-bacterial high performance filter element	Bacteria removing filter element	Odor removal filter element
Model				
SFC309	SFC310-ELEMENT	SFC320-ELEMENT	SFC330-ELEMENT	SFC340-ELEMENT
SFC409	SFC410-ELEMENT	SFC420-ELEMENT	SFC430-ELEMENT	SFC440-ELEMENT



45 (34.5)

55 45 70 60 148

22.5 IN

63 63 63

252

1 2 3 4

OUT

Port size
Rc1/4 (8)
Rc3/8 (10)

14 7

Enlarged view of bracket section

● Attachment
T-bracket
Model No.: SFB310-FP2

Bore size ø5.7 to ø6
Soft nylon tube
Bore size ø5
Soft vinyl tube
Drain outlet

60 148

Maintenance dimensions

10 5 10

Center of port

JISB2401-P21 equivalent

No.	Series
(1)	Anti-bacterial pre-filter
(2)	Anti-bacterial high performance filter
(3)	Odor removal filter
(4)	Bacteria removing filter

Bore size $\phi 5.7$ to $\phi 6$
Soft nylon tube
Bore size $\phi 5$
Soft vinyl tube
Drain outlet

Maintenance dimensions

OUT

Port size
 $Rc1/4$ (8)
 $Rc3/8$ (10)
 $Rc1/2$ (15)

● Attachment
T-bracket
Model No.: SFB410-FP2

No.	Series
(1)	Anti-bacterial pre-filter
(2)	Anti-bacterial high performance filter
(3)	Odor removal filter
(4)	Bacteria removing filter

JISB2401-P21 equivalent

Material: Aluminum die-casting
Stainless steel mounting screws used

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

Material compatible with the Food Sanitation Act

FDA compliant materials



Anti-bacterial combination

SFC306/SFC406/SFC806-FP2 Series

● Port size: 1/4 to 1

RoHS

CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item		SFC306	SFC406	SFC806
Components	(1) Anti-bacterial pre-filter	SFC310	SFC410	SFC810
	(2) Anti-bacterial high performance filter	SFC320	SFC420	SFC820
Working fluid		Compressed air, nitrogen gas (N ₂), and carbon dioxide (CO ₂)		
Working pressure range		0.1 (≈15 psi, 1 bar) to 1.0 (≈145 psi, 10 bar)		
Proof pressure		1.5 (≈217 psi, 15 bar)		
Ambient/fluid temperatures		5 (41°F) to 45 (113°F)		
Filtration		0.1 (removal efficiency 99% and over)		
Max. processing flow rate *1		360	700	2200
Port size		1/4 / 3/8	1/4 / 3/8 / 1/2	3/4 / 1
Weight		0.62	1.06	2.7
Standard accessories		Maintenance label (included)		
Element replacement		1 year (6000 hours) or pressure drop 0.1 MPa		

*1: Use within the max. processing flow rate. This is the value when primary pressure is 0.7 MPa.

How to order

SFC306 - **10** - **X1** - **FP2**

A Model No.

B Port size

C Port thread

D Flow direction

A Model No.

		SFC306	SFC406	SFC806
Code	Description			
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 Flow direction				
Blank	Standard flow (left → right)	●	●	●
X1	Reverse flow (right → left)	●	●	●

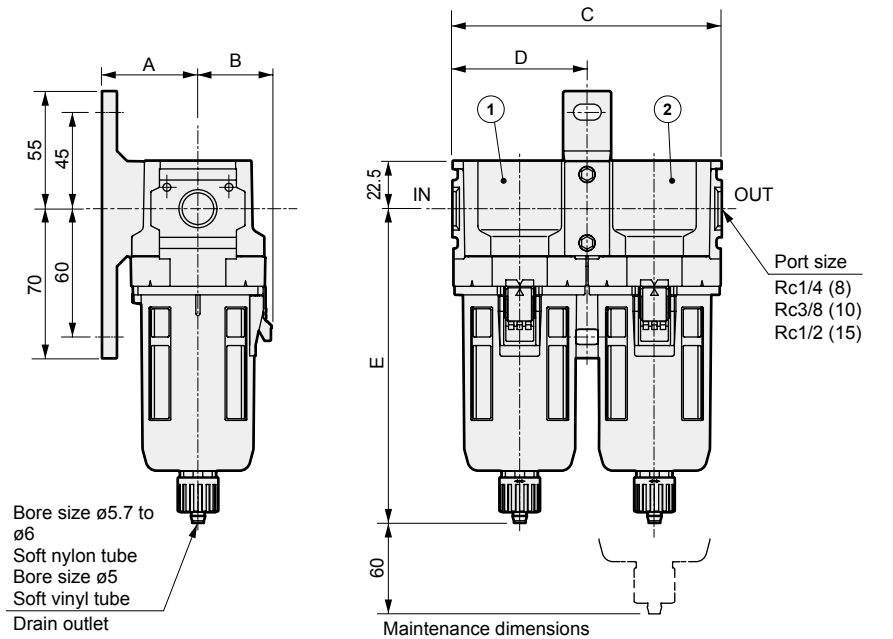
● Replacement model No. for single element unit

Element model No.	Anti-bacterial pre-filter element	Anti-bacterial high performance filter element
Model		
SFC306	SFC310-ELEMENT	SFC320-ELEMENT
SFC406	SFC410-ELEMENT	SFC420-ELEMENT
SFC806	SFC810-ELEMENT	SFC820-ELEMENT

Dimensions

CAD

● SFC306/SFC406

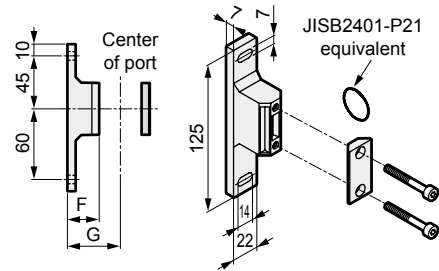


No.	Series
(1)	Anti-bacterial pre-filter
(2)	Anti-bacterial high performance filter

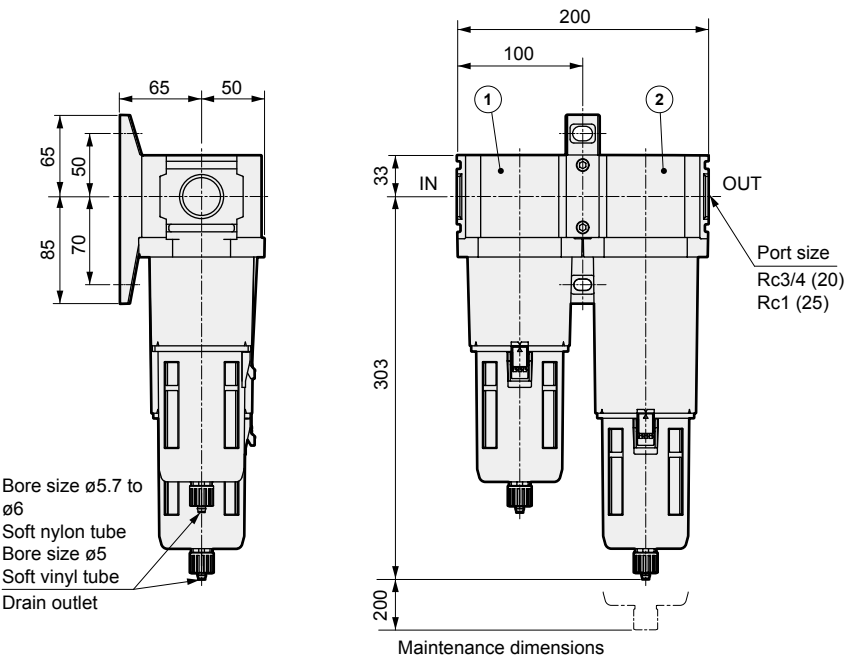
Model No.	A	B	C	D	E	F	G
SFC306	45	34.5	126	63	148	27	45
SFC406	55	42.5	160	80	171	37	55

Material: Aluminum die-casting
Stainless steel mounting screws used

● Attachment
T-bracket
Model No.: SFB310-FP2
(Applicable model: SFC306)
SFB410-FP2
(Applicable model: SFC406)

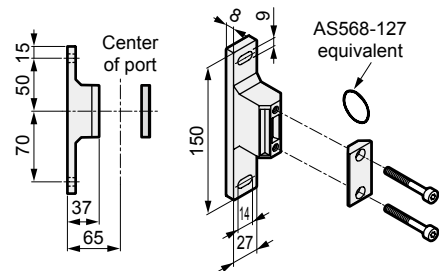


● SFC806



No.	Series
(1)	Anti-bacterial pre-filter
(2)	Anti-bacterial high performance filter

● Attachment
T-bracket
Model No.: SFB810-FP2



Material: Aluminum die-casting
Stainless steel mounting screws used

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

Material compatible with the Food Sanitation Act

FDA compliant materials



Anti-bacterial/odor removal filter combination

SFC308/SFC408/SFC808-FP2 Series

● Port size: 1/4 to 1

RoHS

CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item			SFC308	SFC408	SFC808
Components	(1)	Anti-bacterial pre-filter	SFC310	SFC410	SFC810
	(2)	Anti-bacterial high performance filter	SFC320	SFC420	SFC820
	(3)	Odor removal filter	SFC340	SFC440	SFC840
Working fluid			Compressed air, nitrogen gas (N ₂), and carbon dioxide (CO ₂)		
Working pressure range			MPa 0.1 (≈15 psi, 1 bar) to 1.0 (≈145 psi, 10 bar)		
Proof pressure			MPa 1.5 (≈217 psi, 15 bar)		
Ambient/fluid temperatures			°C 5 (41°F) to 45 (113°F)		
Filtration			μm 0.1 (removal efficiency 99% and over)		
Secondary side oil concentration			mg/m ³ 0.003 or less *2		
Max. processing flow rate *1			l/min (ANR) 360	700	2200
Port size			Rc, NPT, G 1/4 / 3/8	1/4 / 3/8 / 1/2	3/4 / 1
Weight			kg 0.96	1.61	4.2
Standard accessories			Maintenance label (included)		
Element replacement			1 year (6000 hours) or pressure drop 0.1 MPa *3		

*1: Use within the max. processing flow rate. This is the value when primary pressure is 0.7 MPa.

*2: When an oil mist filter (M Series M type) is installed on the primary side. Be sure to install an air dryer and oil mist filter on the primary side.

*3: The replacement time is not a guaranteed value. The replacement time may be reduced depending on the product's working environment, usage conditions, etc.

How to order

How to order

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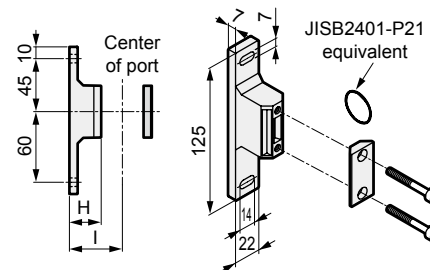
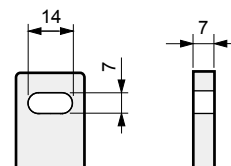
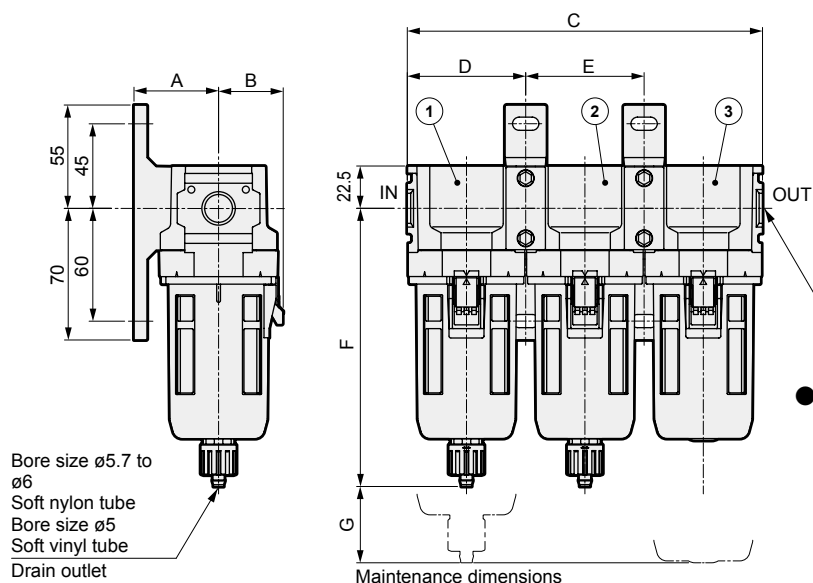
● Replacement model No. for single element unit

Element model No.	Anti-bacterial pre-filter element	Anti-bacterial high performance filter element	Odor removal filter element
Model			
SFC308	SFC310-ELEMENT	SFC320-ELEMENT	SFC340-ELEMENT
SFC408	SFC410-ELEMENT	SFC420-ELEMENT	SFC440-ELEMENT
SFC808	SFC810-ELEMENT	SFC820-ELEMENT	SFC840-ELEMENT

Dimensions



● SFC308/SFC408

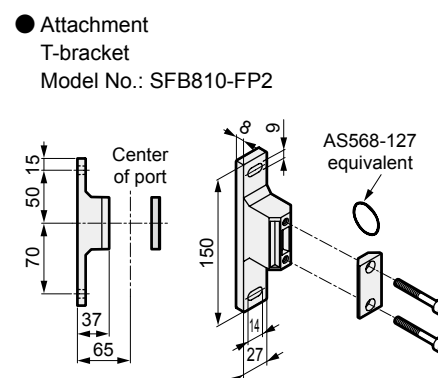
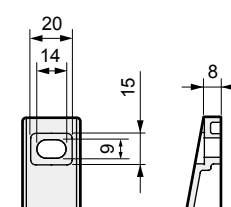
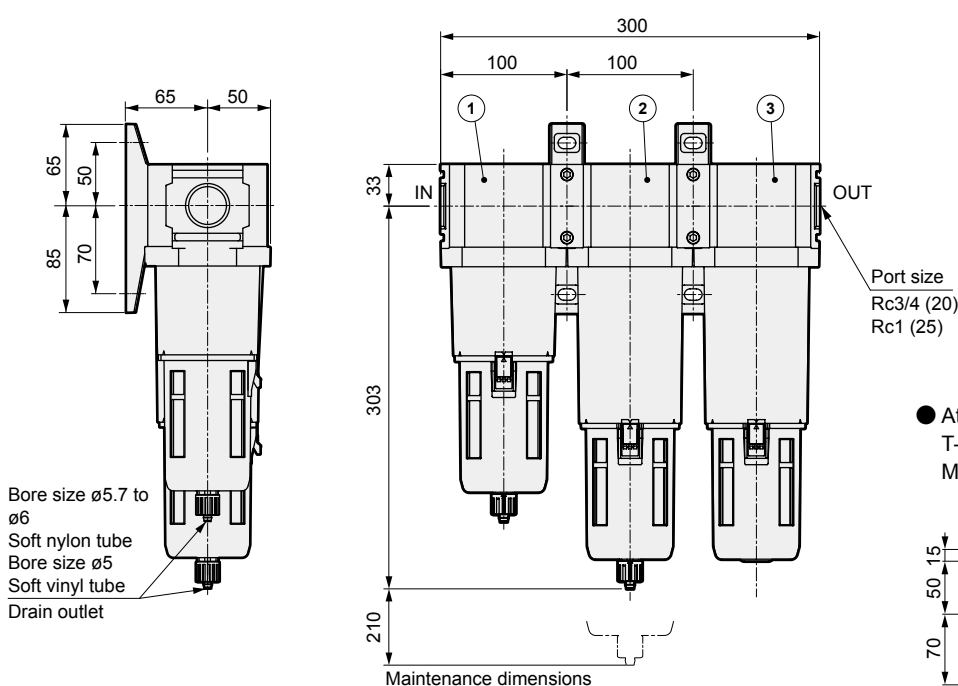


Material: Aluminum die-casting
Stainless steel mounting screws used

No.	Series
(1)	Anti-bacterial pre-filter
(2)	Anti-bacterial high performance filter
(3)	Odor removal filter

Model No.	A	B	C	D	E	F	G	H	I
SFC308	45	(34.5)	189	63	63	148	60	27	45
SFC408	55	(42.5)	240	80	80	171	80	37	55

● SFC808



Material: Aluminum die-casting
Stainless steel mounting screws used

No.	Series
(1)	Anti-bacterial pre-filter
(2)	Anti-bacterial high performance filter
(3)	Odor removal filter

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
PresCompn
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

Material compatible with the Food Sanitation Act

FDA compliant materials



Anti-bacterial pre-filter

SFC310/SFC410/SFC810-FP2 Series

● Port size: 1/4 to 1

RoHS

CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	SFC310	SFC410	SFC810
Working fluid	Compressed air, nitrogen gas (N ₂), and carbon dioxide (CO ₂)		
Working pressure range MPa	0.1 (≈15 psi, 1 bar) to 1.0 (≈145 psi, 10 bar)		
Proof pressure MPa	1.5 (≈217 psi, 15 bar)		
Ambient/fluid temperatures °C	5 (41°F) to 45 (113°F)		
Filtration μm	5 (removal efficiency 90% and over)		
Max. processing flow rate *1 l/min (ANR)	360	700	2200
Port size Rc, NPT, G	1/4 / 3/8	1/4 / 3/8 / 1/2	3/4 / 1
Weight kg	0.28	0.52	1.16
Standard accessories	Maintenance label (included)		
Element replacement	1 year (6000 hours) or pressure drop 0.1 MPa		

*1: Use within the max. processing flow rate. This is the value when primary pressure is 0.7 MPa.

How to order

SFC310 - **10** - **X1** - **FP2**

A Model No.

B Port size

C Port thread

D Flow direction

A Model No.

Code	Description	SFC310	SFC410	SFC810
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 Flow direction				
Blank	Standard flow (left → right)	●	●	●
X1	Reverse flow (right → left)	●	●	●

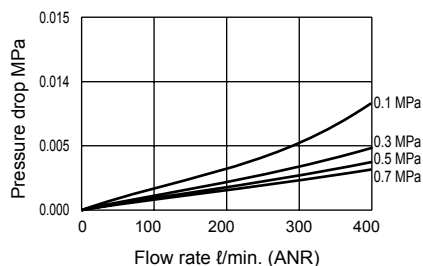
● Replacement model No. for single element unit

Element model No.	Anti-bacterial pre-filter element
SFC310	SFC310-ELEMENT
SFC410	SFC410-ELEMENT
SFC810	SFC810-ELEMENT

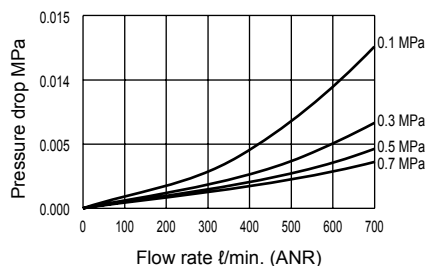
Flow characteristics



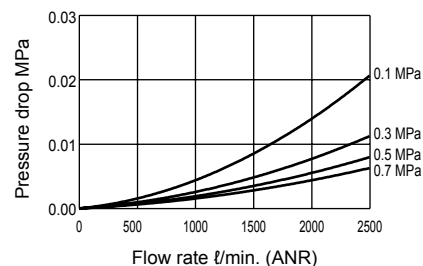
● SFC310



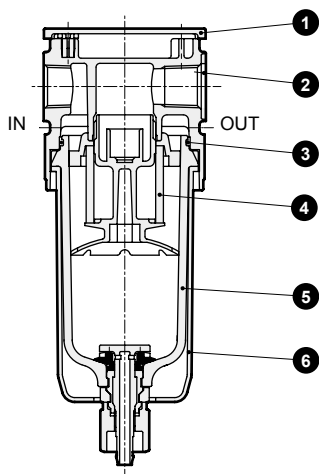
● SFC410



● SFC810



Internal structure and parts list

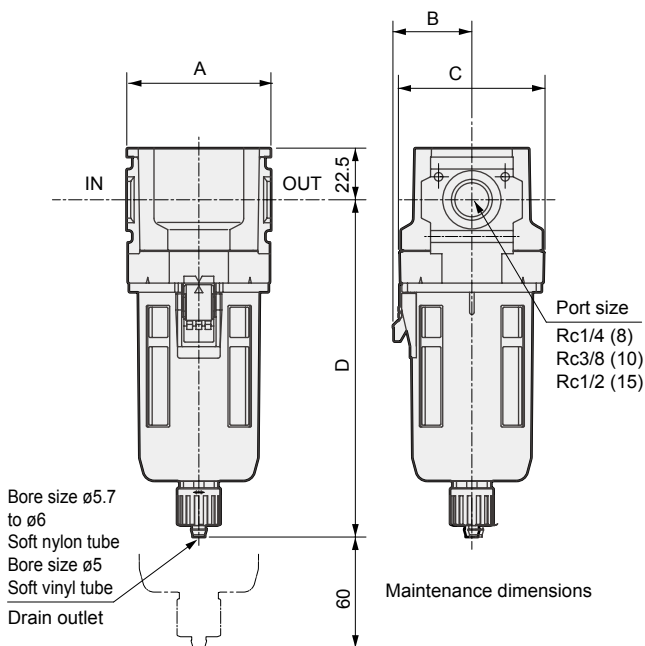


No.	Part name	Material		
		SFC310	SFC410	SFC810
1	Plate cover	ABS resin		
2	Body	Aluminum alloy die-casting		
3	O-ring	Fluoro rubber		
4	Element	Polyethylene, polypropylene, etc.		
5	Bowl	Polyamide resin		
6	Bowl guard	Polyamide resin		
7	Drain cock	Polyacetal resin		

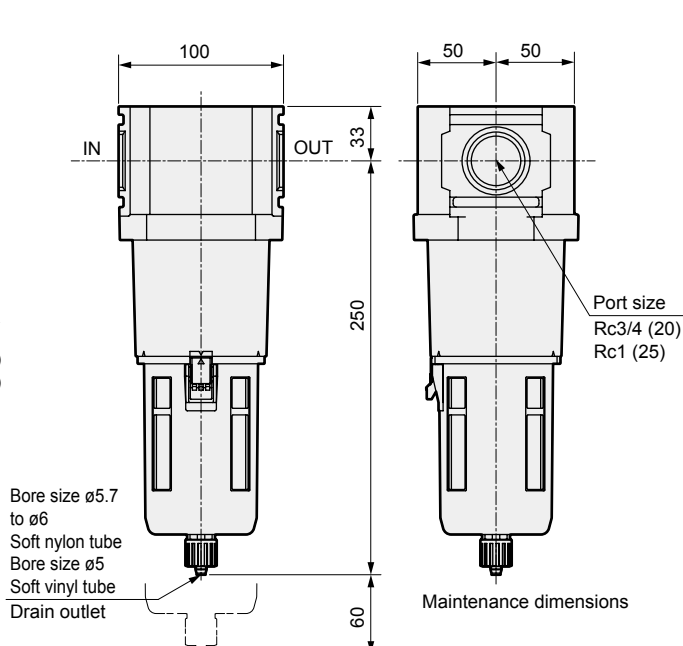
Dimensions



● SFC310, SFC410



● SFC810



Model No.	A	B	C	D
SFC310	63	34.5	63	148
SFC410	80	42.5	79	171

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
PresCompn
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

Material compatible with the Food Sanitation Act

FDA compliant materials



Anti-bacterial high performance filter

SFC320/SFC420/SFC820-FP2 Series

● Port size: 1/4 to 1

RoHS

CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	SFC320	SFC420	SFC820
Working fluid	Compressed air, nitrogen gas (N ₂), and carbon dioxide (CO ₂)		
Working pressure range MPa	0.1 (≈15 psi, 1 bar) to 1.0 (≈145 psi, 10 bar)		
Proof pressure MPa	1.5 (≈217 psi, 15 bar)		
Ambient/fluid temperatures °C	5 (41°F) to 45 (113°F)		
Filtration μm	0.1 (removal efficiency 99% and over)		
Max. processing flow rate *1 l/min (ANR)	360	700	2200
Port size Rc, NPT, G	1/4 / 3/8	1/4 / 3/8 / 1/2	3/4 / 1
Weight kg	0.28	0.52	1.35
Standard accessories	Maintenance label (included)		
Element replacement	1 year (6000 hours) or pressure drop 0.1 MPa		

*1: Use within the max. processing flow rate. This is the value when primary pressure is 0.7 MPa.

How to order

SFC320 - **10** - **X1** - **FP2**

A Model No.

B Port size

C Port thread

D Flow direction

A Model No.

Code	Description	SFC320	SFC420	SFC820
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 Flow direction				
Blank	Standard flow (left → right)	●	●	●
X1	Reverse flow (right → left)	●	●	●

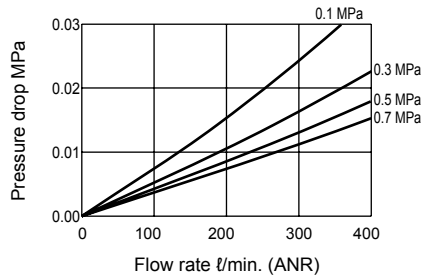
● Replacement model No. for single element unit

Element model No.	Anti-bacterial high performance filter element
Model	
SFC320	SFC320-ELEMENT
SFC420	SFC420-ELEMENT
SFC820	SFC820-ELEMENT

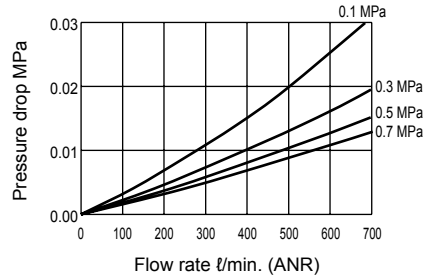
Flow characteristics



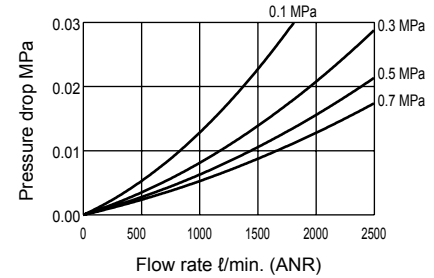
● SFC320



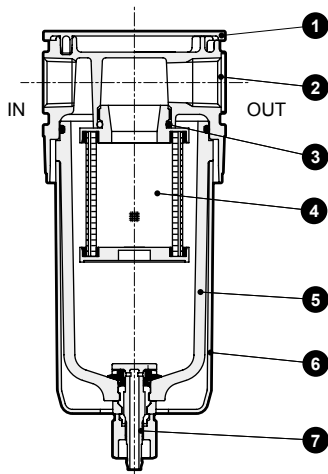
● SFC420



● SFC820



Internal structure and parts list

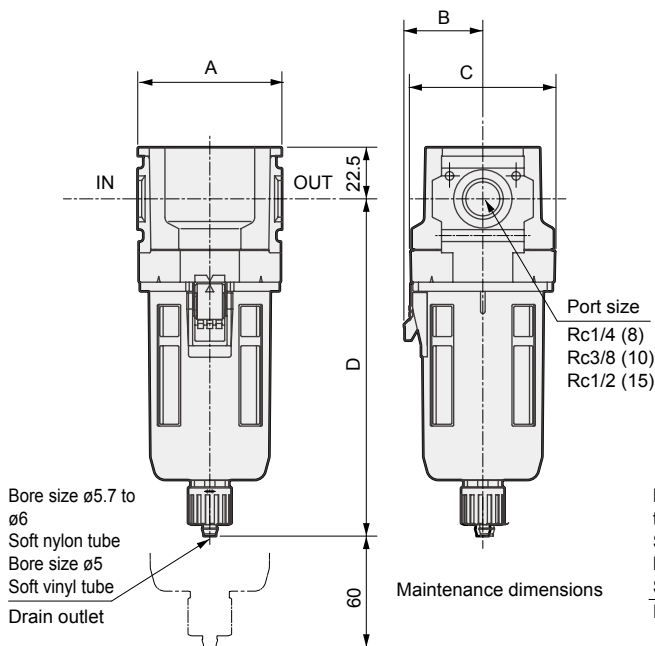


No.	Part name	Material		
		SFC320	SFC420	SFC820
1	Plate cover	ABS resin		
2	Body	Aluminum alloy die-casting		
3	O-ring	Fluoro rubber		
4	Element	Glass fiber, polypropylene		Glass fiber, PET, etc.
5	Bowl	Polyamide resin		
6	Bowl guard	Polyamide resin		
7	Drain cock	Polyacetal resin		

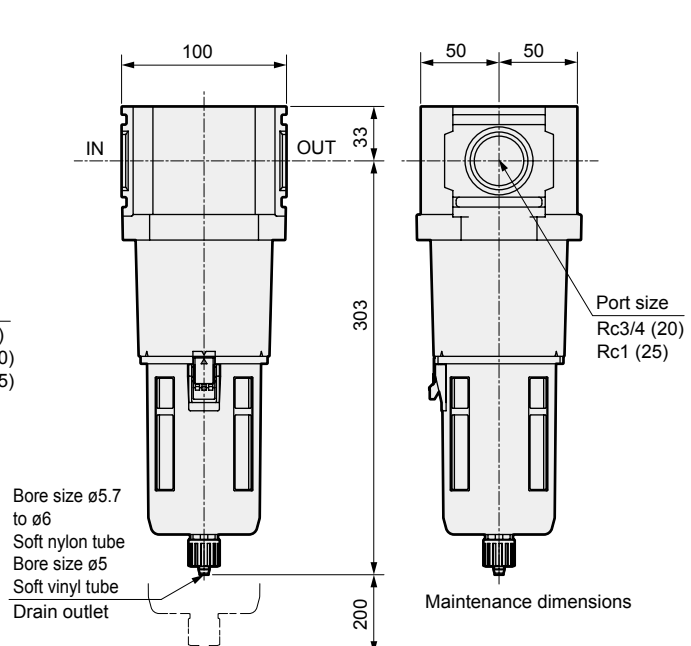
Dimensions



● SFC320, SFC420



● SFC820



Model No.	A	B	C	D
SFC320	63	34.5	63	148
SFC420	80	42.5	79	171

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
PresCompn
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

Material compatible with the Food Sanitation Act

FDA compliant materials



Bacteria removing filter

SFC330/SFC430-FP2 Series

● Port size: 1/4 to 1/2

RoHS

CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	SFC330	SFC430
Working fluid	Compressed air, nitrogen gas (N ₂), and carbon dioxide (CO ₂)	
Working pressure range MPa	0.1 (≈15 psi, 1 bar) to 1.0 (≈145 psi, 10 bar)	
Proof pressure MPa	1.5 (≈217 psi, 15 bar)	
Differential resistant pressure MPa	0.5 (≈72 psi, 5 bar)	
Ambient/fluid temperatures °C	5 (41°F) to 45 (113°F)	
Filtration μm	0.01 (removal efficiency 99.99%)	
Max. processing flow rate *1 l/min (ANR)	300	500
Port size Rc, NPT, G	1/4 / 3/8	1/4 / 3/8 / 1/2
Weight kg	0.28	0.52
Standard accessories	Maintenance label (included)	
Element replacement	1 year (6000 hours) or pressure drop 0.1 MPa	

*1: Use within the max. processing flow rate. This is the value when primary pressure is 0.7 MPa.

How to order

SFC330 - 10 - X1 - FP2

A Model No.

A Model No.

B Port size

C Port thread

D Flow direction

Code	Description	SFC330	SFC430
B Port size			
8	Rc1/4	●	●
10	Rc3/8	●	●
15	Rc1/2		●
C Port thread			
Blank	Rc thread	●	●
N	NPT thread	●	●
G	G thread	●	●
D Flow direction			
Blank	Standard flow (left → right)	●	●
X1	Reverse flow (right → left)	●	●

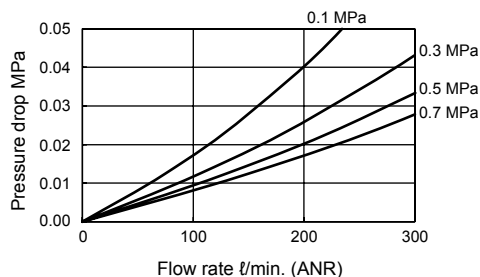
● Replacement model No. for single element unit

Element model No.	Bacteria removing filter element
Model	
SFC330	SFC330-ELEMENT
SFC430	SFC430-ELEMENT

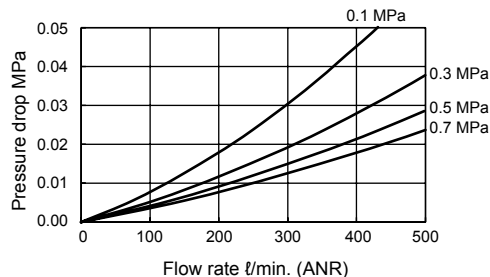
Flow characteristics



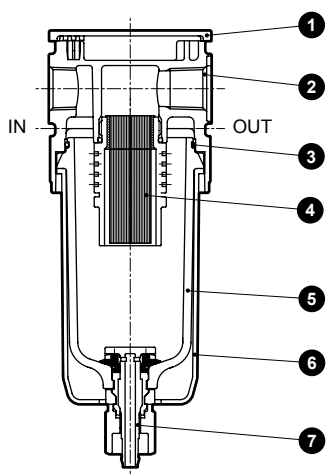
● SFC330



● SFC430



Internal structure and parts list

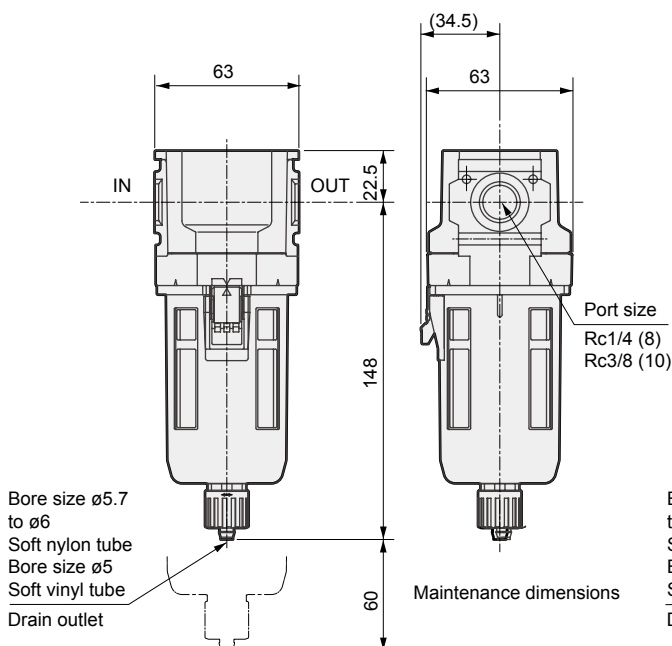


No.	Part name	Material	
		SFC330	SFC430
1	Plate cover	ABS resin	
2	Body	Aluminum alloy die-casting	
3	O-ring	Fluoro rubber	
4	Element	Polypropylene, urethane resin, clear polyamide resin	
5	Bowl	Polyamide resin	
6	Bowl guard	Polyamide resin	
7	Drain cock	Polyacetal resin	

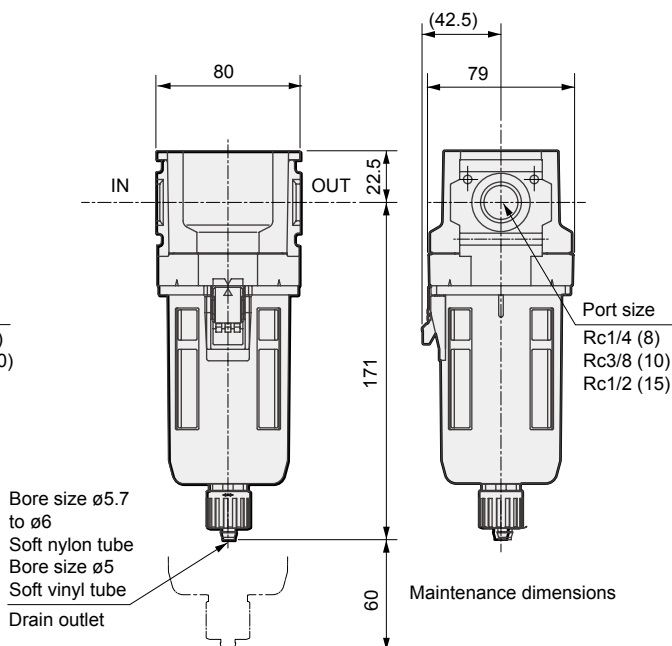
Dimensions



● SFC330



● SFC430



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

Material compatible with the Food Sanitation Act

FDA compliant materials



Odor removal filter

SFC340/SFC440/SFC840-FP2 Series

● Port size: 1/4 to 1

RoHS

CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	SFC340	SFC440	SFC840
Working fluid	Compressed air, nitrogen gas (N ₂), and carbon dioxide (CO ₂)		
Working pressure range MPa	0.1 (≈15 psi, 1 bar) to 1.0 (≈145 psi, 10 bar)		
Proof pressure MPa	1.5 (≈217 psi, 15 bar)		
Ambient/fluid temperatures °C	5 (41°F) to 45 (113°F)		
Secondary side oil concentration mg/m ³	0.003 or less *2		
Max. processing flow rate *1 l/min (ANR)	360	700	2200
Port size Rc, NPT, G	1/4 / 3/8	1/4 / 3/8 / 1/2	3/4 / 1
Weight kg	0.28	0.52	1.35
Standard accessories	Maintenance label (included)		
Element replacement	1 year (6000 hours) or pressure drop 0.1 MPa *3		

*1: Use within the max. processing flow rate. This is the value when primary pressure is 0.7 MPa.

*2: When an oil mist filter (M Series M type) is installed on the primary side. Be sure to install an air dryer and oil mist filter on the primary side.

*3: The replacement time is not a guaranteed value. The replacement time may be reduced depending on the product's working environment, usage conditions, etc.

How to order

SFC340 - **10** - **X1** - **FP2**

A Model No.

B Port size

C Port thread

D Flow direction

A Model No.

Code	Description	SFC340	SFC440	SFC840
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 Flow direction				
Blank	Standard flow (left → right)	●	●	●
X1	Reverse flow (right → left)	●	●	●

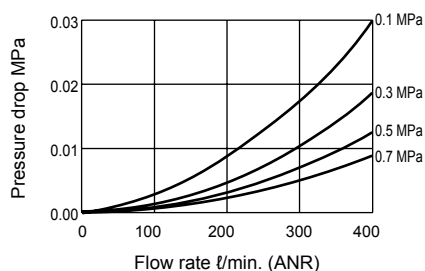
● Replacement model No. for single element unit

Element model No.	Odor removal filter element
Model	
SFC340	SFC340-ELEMENT
SFC440	SFC440-ELEMENT
SFC840	SFC840-ELEMENT

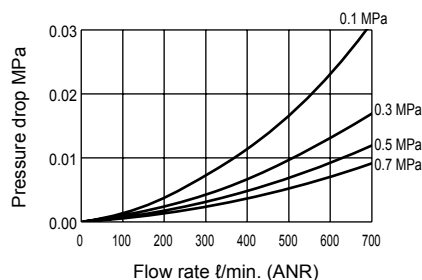
Flow characteristics



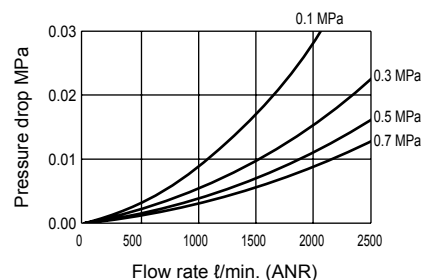
● SFC340



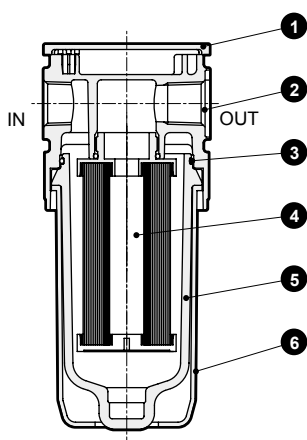
● SFC440



● SFC840



Internal structure and parts list

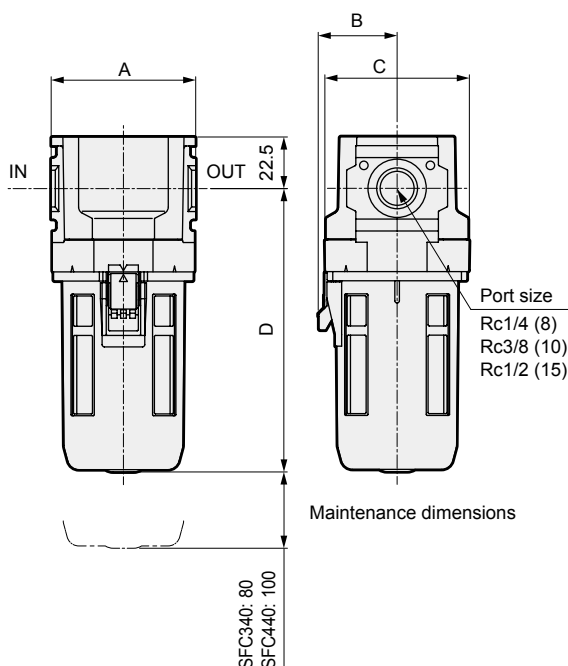


No.	Part name	Material		
		SFC340	SFC440	SFC840
1	Plate cover	ABS resin		
2	Body	Aluminum alloy die-casting		
3	O-ring	Fluoro rubber		
4	Element	Fiber activated carbon, PET		
5	Bowl	Polyamide resin		
6	Bowl guard	Polyamide resin		

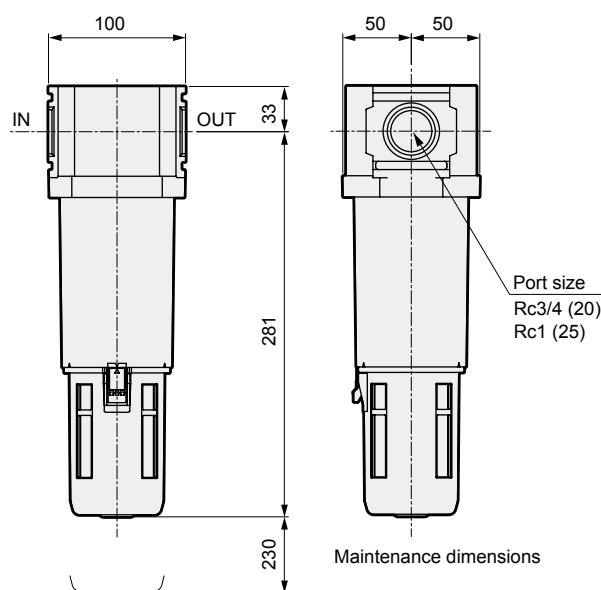
Dimensions



● SFC340, SFC440



● SFC840



Model No.	A	B	C	D
SFC340	63	34.5	63	123.5
SFC440	80	42.5	79	149

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
PresCompn
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



Bacteria removing filter/inline type

SFS10-FP2 Series

- Port size: Rc1/4, Rc3/8
Push-in fitting ø8, ø10, ø12

Material compatible with the Food Sanitation Act

FDA compliant materials

RoHS

CAD

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Item	Resin		Stainless steel
	SFS10-(*) (*2)		SFS10-(*)(*2)-M
Working fluid	Compressed air, nitrogen gas (N ₂), and carbon dioxide (CO ₂)		
IN side bore size (*1)	Select from push-in fitting ø8, ø10, ø12, Rc1/4, Rc3/8		Select from Rc1/4 and Rc3/8
OUT side bore size (*2)			
Proof pressure MPa	1.5 (≈217 psi, 15 bar)		2.25 (≈326 psi, 22 bar) (compressed air), 1.5 (≈217 psi, 15 bar) (N ₂ , CO ₂)
Differential resistant pressure MPa	0.5 (≈72 psi, 5 bar)		
Working pressure MPa	-0.095 (≈-13 psi, 1 bar) to 0.99 (≈143 psi, 9 bar)		-0.095 (≈-13 psi, 1 bar) to 1.5 (≈217 psi, 15 bar) (compressed air), -0.095 (≈-13 psi, 1 bar) to 0.99 (≈143 psi, 9 bar) (N ₂ , CO ₂)
Ambient/fluid temperatures °C	5 (41°F) to 45 (113°F)		
Filtration μm	0.01 (removal efficiency 99.99%)		
Processing flow rate l/min (ANR)	300 to 400 *1		
Weight kg	Push-in fitting	Thread	0.5
	0.15	0.11	
Assembling/inspection/packaging	Integrated production in cleanroom		
Cleaning	Degreasing		
Element replacement	1 year (6000 hours) or pressure drop 0.1 MPa		

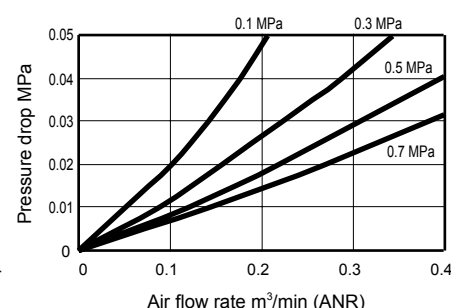
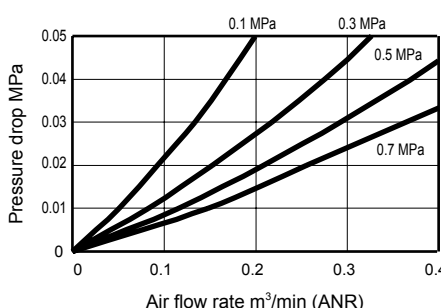
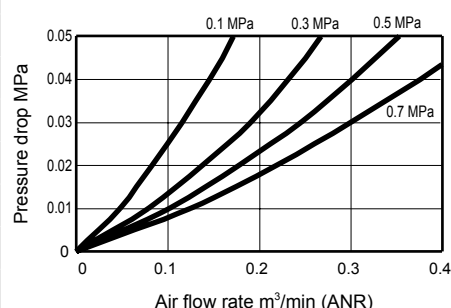
*1: Initial flow rate at primary pressure 0.7 MPa and pressure drop 0.03 MPa. (Differs according to port size.)

Flow characteristics

● SFS10-H8H8

● SFS10-H10H10
● SFS10-88

● SFS10-H12H12
● SFS10-1010



How to order

● Resin

SFS10 - H8 H8 - FP2

Model No.	A IN side port size	H8	ø8
		H10	ø10
		H12	ø12
		8	Rc1/4
		10	Rc3/8
		B OUT side port size	
		H8	ø8
		H10	ø10
		H12	ø12
		8	Rc1/4
		10	Rc3/8

● Stainless steel (made to order)

SFS10 - 8 8 - M - FP2

Model No.	A IN side port size	8	Rc1/4
		10	Rc3/8
	B OUT side port size	8	Rc1/4
		10	Rc3/8

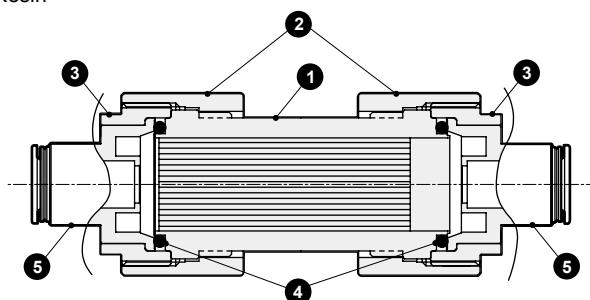
*1: Two mounting screws (M3 x 40), two plain washers, and two spring washers are included with the product.

● Single unit model number for replacement element (1 element, 2 O-rings)

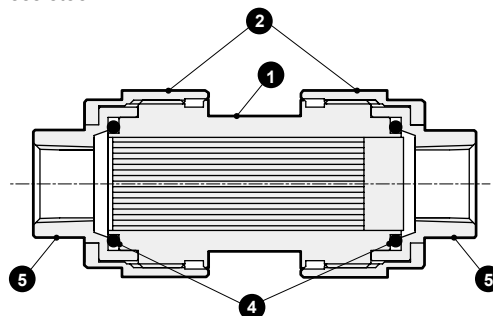
· For resin type: **SFS10-E** · Stainless steel type: **SFS10-E-M**

Internal structure and parts list

● Resin



● Stainless steel



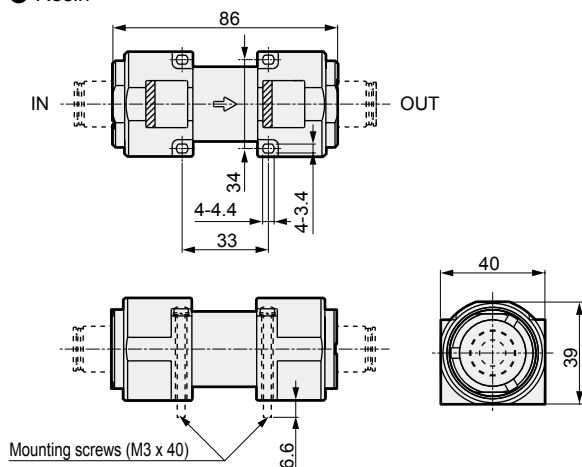
● Parts list

No.	Part name	Resin	Stainless steel
1	Housing	Clear polyamide	Stainless steel
	Filter	Polypropylene	
	Filler material	Urethane rubber resin	
2	Body	Polyamide resin	Stainless steel
3	Plug	Polyamide resin	-
4	O-ring	Fluoro rubber	Fluoro rubber
5	Cartridge fitting (Port size ø8, ø10, ø12)	Copper alloy (nickel plating) Fluoro rubber Push ring: Stainless steel	-
	Adapter (Port size Rc1/4, Rc3/8)	Aluminum (Alumite treatment)	Stainless steel

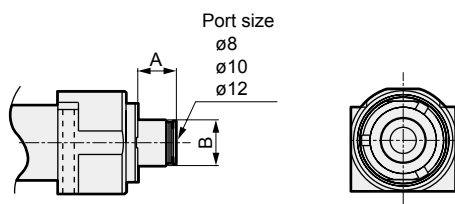
Dimensions



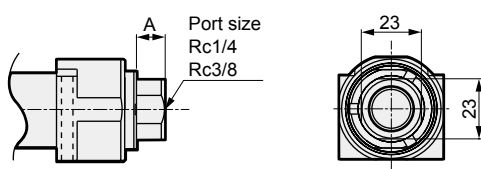
● Resin



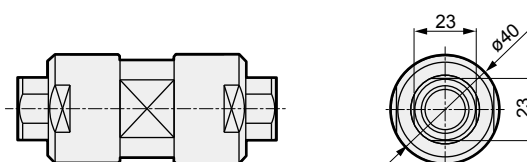
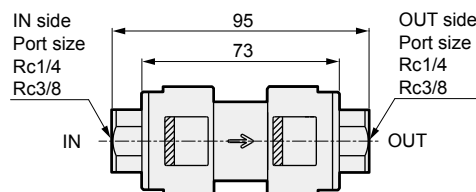
· Push-in fitting (ø8, ø10, ø12)



· Rc thread (Rc1/4, Rc3/8)



● Stainless steel



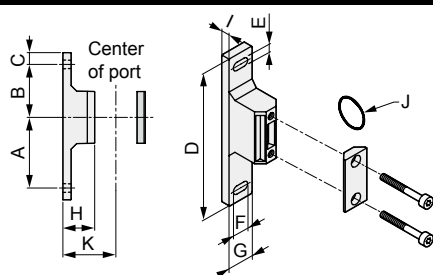
Connector No.	Port size	A	B
H8	ø8 push-in fitting	12	ø17.5
H10	ø10 push-in fitting	14.5	ø17.5
H12	ø12 push-in fitting	16	ø19.5
8	Rc1/4	11	-
10	Rc3/8	11	-

Anti-bacterial/bacteria-removing filter

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

T-bracket set

● Model No.: SFB310-FP2 / SFB410-FP2 / SFB810-FP2

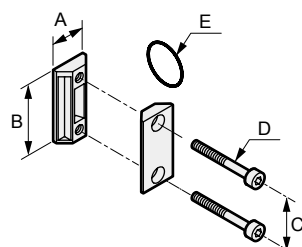


Model No.	Compatibility	A	B	C	D	E	F	G	H	I	J	K	Weight (kg)
SFB310-FP2	SFC3** Series	60	45	10	125	7	14	22	27	7	JISB2401-P21	45	0.086
SFB410-FP2	SFC4** Series	60	45	10	125	7	14	22	37	7	JISB2401-P21	55	0.094
SFB810-FP2	SFC8** Series	70	50	15	150	9	14	27	37	8	AS568-127	65	0.169

Material: Aluminum die-casting
Stainless steel mounting screws used

Joiner set

● Model No.: SFJ400-FP2
SFJ800-FP2



Model No.	Compatibility	A	B	C	D	E	Weight (kg)
SFJ400-FP2	SFC3** Series SFC4** Series	21	44	32	M5	JIS B2401-P21 equivalent	0.036
SFJ800-FP2	SFC8** Series	26	65	50	M6	AS568-127 equivalent	0.094

Material: Aluminum die-casting
Stainless steel mounting screws used

Distributor

How to order

SFD401 - 00 - 8 - B31 - FP2

A Model No.

B Port size

C Port thread

D T-bracket

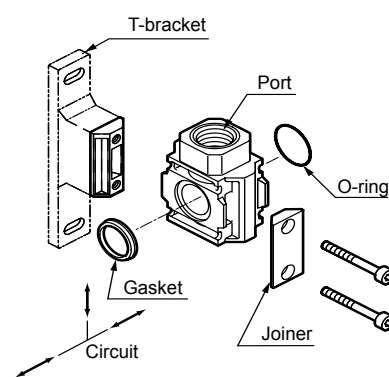
Precautions for

model No. selection

- *1: The joiner set (joiner, bolt, O-ring) and one gasket is included as standard.
*2: Contact CKD regarding 2-way branching.

Code	Description
A Model No.	
SFD401	For SFC3** Series
	For SFC4** Series
SFD801	For SFC8** Series
B Port size	
	SFD401 SFD801
8	●
10	●
15	●
20	●
25	●
C Port thread	
Blank	Rc thread
N	NPT thread
G	G thread
D T-bracket	
Blank	None
B31	SFC3** Series
B41	SFC4** Series
B81	SFC8** Series

Assembly method



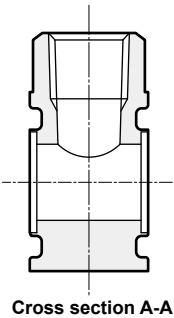
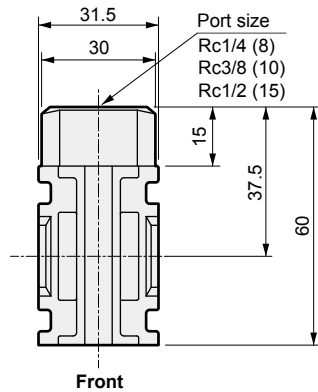
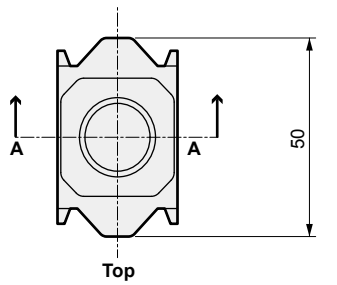
- *1: Insert the O-ring when mounting on the primary side, and the gasket when mounting on the secondary side for the air flow.
*2: When inserting the O-ring and gasket during assembly, the O-ring and gasket must not be bent.

Material: Aluminum die-casting
Stainless steel mounting screws used

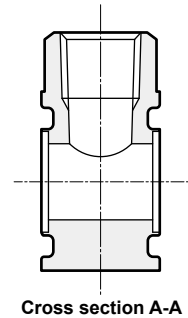
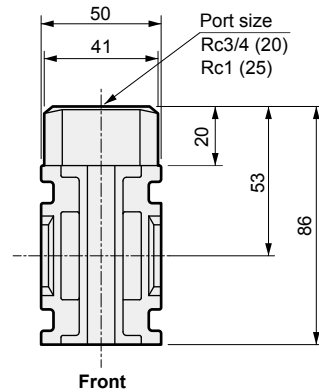
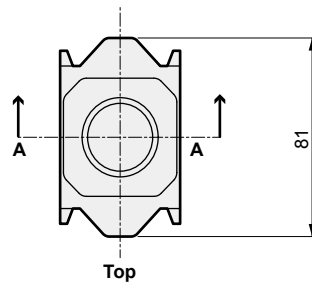
Anti-bacterial/bacteria-removing filter

Dimensions

● SFD401-00-**-FP2



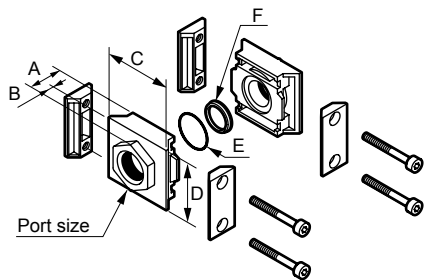
● SFD801-00-**-FP2



Dimensions and applications

Pipe adaptor set

● Model No.: SFA400-**-FP2 SFA800-**-FP2



Material: Aluminum die-casting
Stainless steel mounting screws
used

Model No.	Port size	A	B	C	D	E (O-ring)	F (gasket)	Weight (kg)
SFA400-8-FP2	1/4	20	6	50	45	JISB2401 P21 equivalent 1 pc.	1 pc.	0.16
SFA400-10-FP2	3/8							
SFA400-15-FP2	1/2							
SFA800-20-FP2	3/4	35 (38)	15 (18)	81	66	AS568-127 equivalent 1 pc.	1 pc.	0.53
SFA800-25-FP2	1							
SFA800-32-FP2	1 1/4							

Note: Numbers in () are for 1 1/4.

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