Clean Air Filter

Series SFD

Hollow Fiber Element

Nominal filtration rating: **0 1** μm (filtration efficiency 99.99%)

■ Initial pressure drop: 0 03 MPa (at inlet pressure 0.7 MPa, maximum flow)

Maximum operating pressure: 1 _ 0 MPa (at 20°C)



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			SFD100		SFD200 SF		SFD101	SFD102	
		No.	The state of		Made to Or		Made to Order ges 251 and 252		
Туре		Disposable ty	isposable type (non-replaceable element) Cartridge type (replaceable element)						
Flow rate ℓ/m	in (ANR) (at inlet pressure 0.7 MPa)	Up to 60	Up to 80	Up to 100	Up to 300	Up to 400	Up to 500	Up to 100	
.	One-touch fitting	ø4	ø6	ø8	ø8	ø10	ø12	_	-
Port size	Female thread		1	Rc 1/4, G 1/4 NPT 1/4	_	_	Rc 1/4, G 1/4 NPT 1/4	Rc 1/4, G 1	/4, NPT 1/4
Case mat	terial		Resin			Resin		Aluminum	Stainless steel
Fluid		Air (Nitrogen)							
Nominal filtration rating		0.01 μm (filtration efficiency: 99.99%) ^{Note)}							
Initial pressure drop		0.03 MPa (at inlet pressure 0.7 MPa, maximum flow)							
Maximum operating pressure (at 20°C)		1.0 MPa (in case of nitrogen: 0.99 MPa)							
Operating	temperature					5 to 45°C			

Note) The clean air filter is designed for the filtration of solid objects. It is not suitable for the separation of water and oil.



Integrated production in a clean environment

Under a clean environment, all components have undergone ultrasonic cleaning.

Assembly, inspection and antistatic double packaging processes are conducted in an integrated production system.

Quality Control

At the time of shipment, the SFD series clean air filter is 100% inspected.

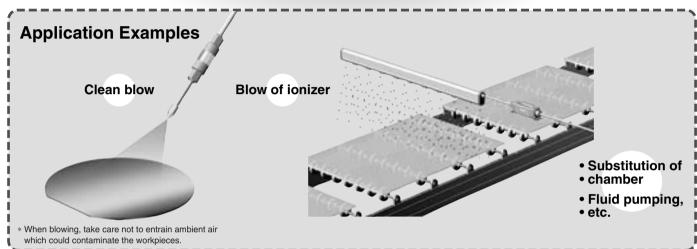


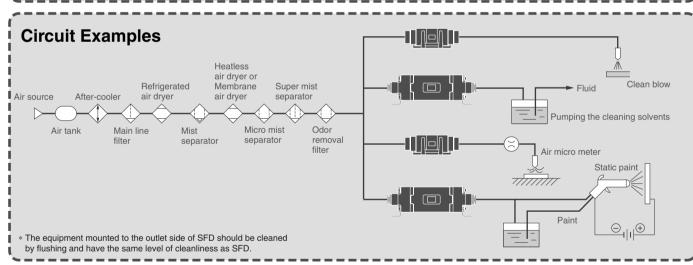
Purification testAirtight test

Assembly environment

- Clean room: Class M5.5 (ISO class 7)
- Clean bench: Class M3.5 (ISO class 5)*

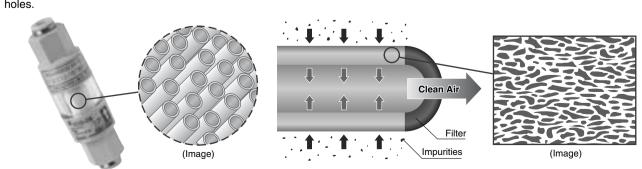
* Fed. Std. 209E (): based on ISO14644-1.





Hollow fiber membrane

The hollow fiber membrane has a porous construction with numerous fine holes on a straw type fiber membrane wall. The hollow fiber membrane filter traps and filtrates the impurities from the compressed air through the overlapping layered fine holes.



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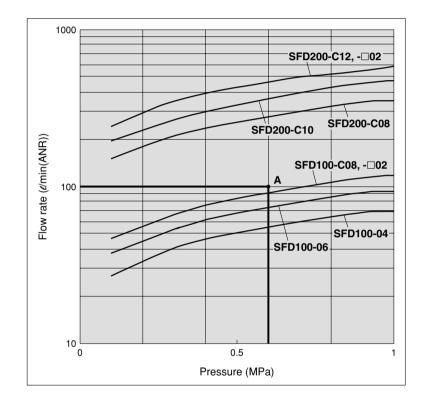
Series SFD Model Selection

Select the model by using the following procedures involving the inlet pressure and the maximum flow rate. [Example] Inlet pressure: 0.6 MPa

Maximum flow rate: 100 ℓ/min (ANR)

- 1. Obtain the intersection A for the inlet pressure and the maximum flow rate by using the maximum flow rate chart.
- 2. If the obtained intersection A is above the maximum flow rate line, the SFD200-C12, -□02, -C10, or -C08 are selected.

Maximum Flow Rate







Clean Air Filter

Series SFD

How to Order

SFD 1 0 0 - C08

Clean air filter

		Size
	Symbol	Max. flow rate
	1	100 ℓ/min (ANR)
	2	500 ℓ/min (ANR)

Case material

Symbol	Material
0	Resin
1	Aluminum
2	Stainless stee

Symbol 1 and 2 are made to order. For details, refer to page 251.

* Option					
Symbol	Option				
Nil	None				
В	Bracket (SFD100 only)				

* The brackets are provided with the SFD200 series as a standard product. (Nil)

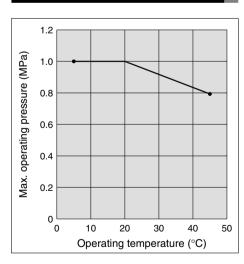
Port size

Symbol		Connection size	Note	
C04	ø4		OFD400	
C06	ø6	Clean One-touch	SFD100 only	
C08	ø8	fittings (Series KP)	SFD100/200	
C10	ø10	intingo (conco ra)	SFD200 only	
C12	ø12			
02		Rc 1/4		
N02	NPT 1/4		Female thread SFD100/200	
F02		G 1/4	31 100/200	



Different diameters for IN and OUT ports are made to order. For details, refer to page 252.

Relationship between **Operating Temperature and** Max. Operating Pressure



Specifications

Model	SFD10□	SFD20□	
Port size	One-touch fittings ø4, ø6, ø8	One-touch fittings ø8, ø10, ø12	
Port size	Rc, NPT, G 1/4	Rc, NPT, G 1/4	
Fluid	Air (Nitrogen)	Air (Nitrogen)	
Air flow capacity	Up to 100 d/min (ANR)	Up to 500 ℓ/min (ANR)	
Nominal filtration rating Note 1)	0.01 μm (99.99%)		
Operating pressure range Note 2)	– 100 kPa to 1.0 MPa (in case of nitrogen: 0.99 MPa)		
Operating temperature	5 to 45°C		
Initial pressure drop	0.03 MPa (at inlet pressure 0.7 MPa, maximum flow)		
Element proof differential pressure Note 3)	0.5 MPa		
Proof pressure	1.5 MPa		
Element service life	1 year, or when the pressure drop reaches 0.1 MPa.		

Note 1) Measured under SMC's specified conditions.

Note 2) The maximum operating pressure varies depending on temperature. Refer to the graph that shows the

relationship between operating temperature and maximum operating pressure on the left.

Note 3) This means that the element does not break at 0.5 MPa. See "Specific Product Precautions".

Model	Port size	Rated flow (@min (ANR)) Note 1)	Mass
	ø4 (One-touch fittings)	60	35 g
CED100	ø6 (One-touch fittings)	80	35 g
SFD100	ø8 (One-touch fittings)	100	35 g
	Rc, NPT, G 1/4	100	35 g
SFD101 Note 1)	Rc, NPT, G 1/4	100	60 g
SFD102 Note 2)	Rc, NPT, G 1/4	100	150 g
	ø8 (One-touch fittings)	300	190 g
CEDOOO	ø10 (One-touch fittings)	400	190 g
SFD200	ø12 (One-touch fittings)	500	190 g
	Rc, NPT, G 1/4	500	260 g

Note 1) The maximum flow rate when the inlet pressure is 0.7 MPa.

Note 2) SFD101 and SFD102 are produced upon receipt of order.



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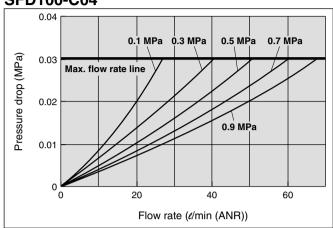
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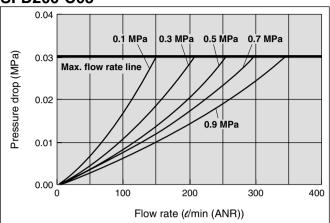
Series SFD

Flow Characteristics

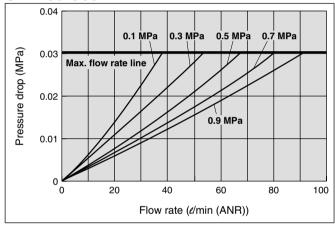
SFD100-C04



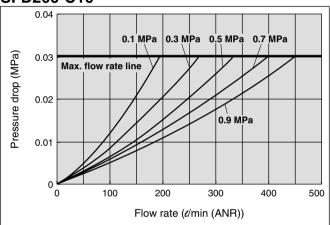
SFD200-C08



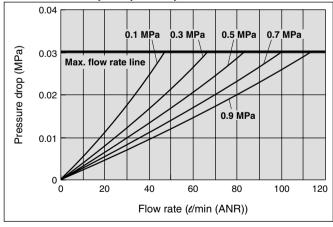
SFD100-C06



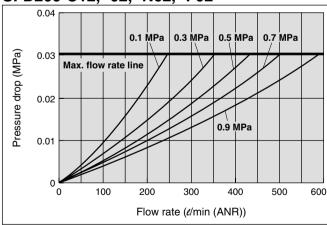
SFD200-C10



SFD100-C08, -02, -N02, -F02



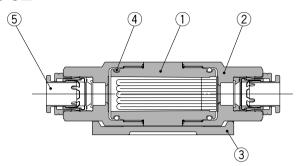
SFD200-C12, -02, -N02, -F02



Clean Air Filter Series SFD

Construction

SFD100-C□



Component Parts

No.	Description	Material	Note
1	Element	Case: Clear resin	
2	Cover	Resin	
3	Bracket	Resin	
4	O-ring	Rubber	
5	Cassette	Rubber, Stainless steel alloy	

Replacement Parts

Component Parts

No. Description

Cover

2

3

4

No.

Element

Bracket

Replacement Parts

Description

Bracket set

O-ring

No.	Description	Material	Note
1	Bracket set	SFD-BR100	With 2 countersunk head screws (M3)

Material

Case: Clear resin

Resin

Resin

Rubber

Material

SFD-BR100

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Note

Note With 2 countersunk head screws (M3) IDFB

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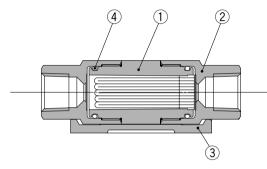
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SFD100-□02

SFD200-C□

(4)



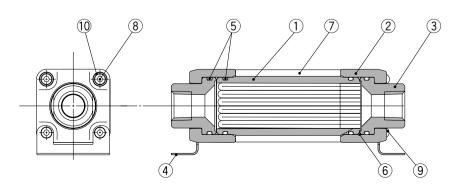
Component Parts						
No.	Description	Material	Note			
1	Element	Case: Clear resin				
2	Cover	Aluminum alloy				
3	Fitting body	Resin				
4	Cassette	Rubber, Stainless steel alloy				
5	Bracket	Stainless steel alloy				
6	O-ring A	Rubber				
7	O-ring B	Rubber				
8	Rod cover	Stainless steel alloy				
9	Tie-rod	Stainless steel alloy				
10	Cap nut	General type steel	Nickel plated			
11	Plain washer	General type steel	Nickel plated			

Replacement Parts

(10)

No.	Description	Material	Note
1	Element set	SFD-EL200	With 3 O-rings

SFD200-□02



Component Parts

No.	Description	Material	Note
1	Element	Case: Clear resin	
2	Cover	Aluminum alloy	
3	Fitting body	Stainless steel alloy	
4	Bracket	Stainless steel alloy	
5	O-ring A	Rubber	
6	O-ring B	Rubber	
7	Rod cover	Stainless steel alloy	
8	Tie-rod	Stainless steel alloy	
9	Cap nut	General type steel	Nickel plated
10	Plain washer	General type steel	Nickel plated

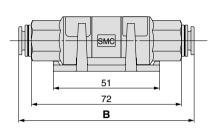
Replacement Parts

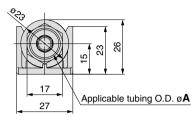
No.	Description	Material	Note
1	Element set	SFD-EL200	With 3 O-rings

Series SFD

Dimensions

SFD100-C□

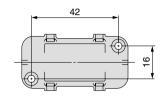




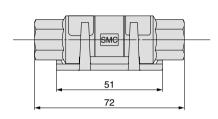
SFD100-C□ Dimensions

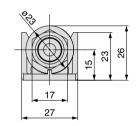
Mode	Model		В
	C04	4	81
SFD100-	C06	6	81
	C08	8	82

Bracket mounting dimensions

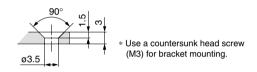


SFD100-□02

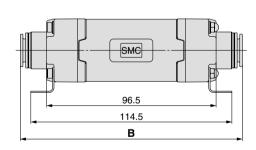


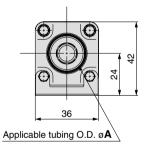


Hole shape for bracket mounting



SFD200-C□

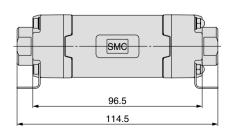


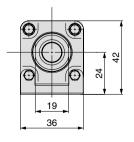


SFD200-C□ Dimensions

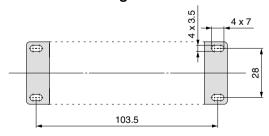
Model		Α	В
SFD200-	C08	8	125
	C10	10	126
	C12	12	126

SFD200-□02





Bracket mounting dimensions



Series SFD **Made to Order Specifications 1**

Contact us for detailed specifications, delivery and prices.



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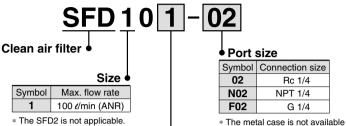
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1 Metal Case



with a clean one-touch fitting.

* The bracket is provided as a standard product.

Metal case suitable for an atmosphere exposed to organic solvents and chemicals

Specifications

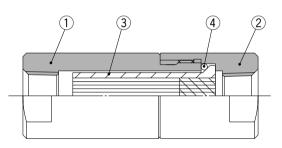
The specifications are the same as the standard product. Refer to "Specifications" on page 247.

Flow Characteristics

The flow characteristics are the same as the SFD100-02. Refer to "Flow Characteristics" on page 248.

Construction

SFD101-02



Case material

Material

Aluminum Stainless steel

Symbol

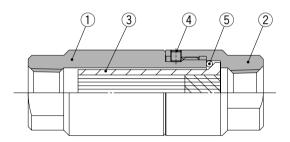
Component Parts

No.	Description	Material	Note
1	Case	Aluminum alloy	
2	Cover	Aluminum alloy	
3	Element	Case: Clear resin	
4	O-ring	Rubber	

Replacement Parts

No. Description		Description Part no.	
1	Element set	SFD-EL101	With O-ring
2	Bracket	SFD-BR101	Material: Stainless steel 304

SFD102-02



Component Parts

No.	Description	Material	Note
1	Case	Stainless steel alloy	
2	Cover	Stainless steel alloy	
3	Element	Case: Clear resin	
4	Hex. socket head set screw	Stainless steel alloy	
5	O-ring	Rubber	

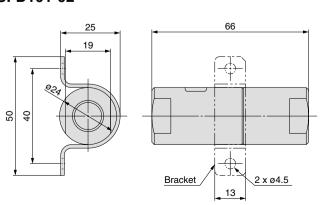
Replacement Parts

No. Description		Part no.	Note	
1	Element set	SFD-EL101	With O-ring	
2	Bracket	acket SFD-BR101		

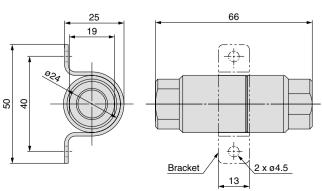
No.	Description	Part no.	Note	
1	Element set	SFD-EL101	With O-ring	
2	Bracket	SFD-BR101	Material: Stainless steel 304	

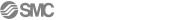
Dimensions

SFD101-02



SFD102-02



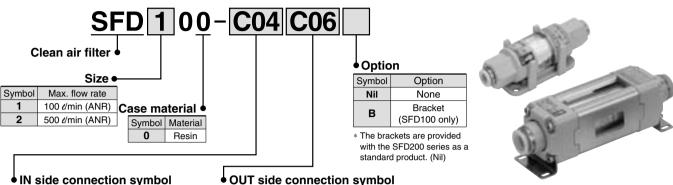


Series SFD **Made to Order Specifications 2**

Contact us for detailed specifications, delivery and prices.



2 Different Diameters for IN and OUT Ports



IN side connection symbol

IN side connection symbol	Connection size			
C04	ø4			
C06	ø6	01		
C08	ø8	Clean One-touch fittings (Series KP)		
C10	ø10	illings (Series KF)		
C12	ø12			
02	Rc 1/4			
N02	NPT 1/4			
F02		G 1/4		

- OOT SIGE CONTINUED TO SYNDON					
OUT side connection symbol	Connection size				
C04	ø4				
C06	ø6	01			
C08	ø8	Clean One-touch fittings (Series KP)			
C10	ø10	intings (Genes Ki)			
C12	ø12				
02	Rc 1/4				
N02	NPT 1/4				
F02		G 1/4			

^{*} IN/OUT combination is the below table.

SFD100 Different Diameter Combinations

		OUT port size					
		C04	C06	C08	02	N02	F02
	C04		•	-	•	•	•
ze	C06	•		•	•	•	•
t si	C08	_	•		•	•	•
IN port size	02	•	•	•		_	_
Z	N02	•		•			
	F02	•	•	•	_		

^{*} The symbol "—" stands for unavailable combination.

* The symbol "—" stands for unavailable combination.

SFD200 Different Diameter Combinations

\		OUT port size					
		C08	C10	C12	02	N02	F02
	C08		•	_	•	•	•
ze	C10	•		•	•	•	•
t si	C12	_	•		•	•	•
IN port size	02	•	•	•		_	_
Z	N02	•	•	•			_
	F02	•	•	•	_	_	

Specifications

The specifications are the same as the standard models.

Refer to "Specifications" on page 247.

Flow Characteristics

When the IN and OUT ports have different diameters, the flow characteristics will be those of the port with the smaller diameter. Refer to "Flow Characteristics" for the smaller diameter from the chart of standard product on page 248.

Construction

The construction and materials are the same as the standard product.

Refer to "Construction" on page 249.

Dimensions

One-touch fitting

SFD100 different diameters

dimensions(A, B) Port size 1 Port size 2 ø**4** Basic dimension 72 Fitting Fitting

dimension A

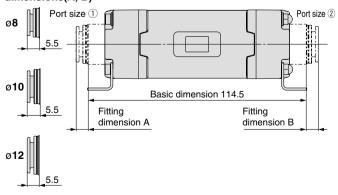


Model	Port size ①	Port size ②	Total length
	C04 (C06)	C06 (C04)	81 (A + 72 + B)
	C04 (□02)	□02 (C04)	76.5 (72 + A)
SFD100-	C06 (C08)	C08 (C06)	81.5 (A + 72 + B)
	C06 (□02)	□02 (C06)	76.5 (72 + A)
	C08 (□02)	□02 (C08)	77 (72 + A)

dimension B

SFD200 different diameters

One-touch fitting dimensions(A, B)



Model	Port size 1	Port size ②	Total length		
	C08 (C10)	C10 (C08)	125.5 (A + 114.5 + B)		
	C08 (□02)	□02 (C08)	120 (114.5 + A)		
SFD200-	C10 (C12)	C12 (C10)	125.5 (A + 114.5 + B)		
	C10 (□02)	□02 (C10)	120 (114.5 + A)		
	C12 (□02)	□02 (C12)	120 (114.5 + A)		



Related Products <Pre><Pre-filters for Series SFD>

Mist Separator Series AM

Refer to pages 161 to 168 for details.



Series AM

Model	AM150C	AM250C		
Rated flow (e/min (ANR))	300	750		
Port size (Nominal size B)	1/8, 1/4	1/4, 3/8		

Specifications

Fluid	Compressed air			
Max. operating pressure	1.0 MPa			
Min. operating pressure Note)	0.05 MPa			
Proof pressure	1.5 MPa			
Ambient temperature	5 to 60°C			
Nominal filtration rating	0.3 μm (Filtering efficiency 99.9%			

Note) With auto drain: 0.1 MPa (N.O. type), 0.15 MPa (N.C. type)

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Micro Mist Separator Series AMD

Refer to pages 169 to 177 for details.



Series AMD

Model	AMD150C	AMD250C
Rated flow (e/min (ANR))	200	500
Port size (Nominal size B)	1/8, 1/4	1/4, 3/8

Specifications

Fluid	Compressed air				
Max. operating pressure	1.0 MPa				
Min. operating pressure Note)	0.05 MPa				
Proof pressure	1.5 MPa				
Ambient temperature	5 to 60°C				
Nominal filtration rating	0.01 μm (Filtering efficiency 99.9%				

Note) With auto drain: 0.1 MPa (N.O. type), 0.15 MPa (N.C. type)

Super Mist Separator Series AME

Refer to pages 187 to 194 for details.



Series AME

Model	AME150C	AME250C		
Rated flow (e/min (ANR))	200	500		
Port size (Nominal size B)	1/8, 1/4	1/4, 3/8		

Specifications

Compressed air
1.0 MPa
0.05 MPa
1.5 MPa
5 to 60°C
0.01 µm (Filtering efficiency 99.9%)

Odor Removal Filter Series AMF

Refer to pages 195 to 203 for details.



Series AMF

Model	AMF150C	AMF250C		
Rated flow (e/min (ANR))	200	500		
Port size (Nominal size B)	1/8, 1/4	1/4, 3/8		

Specifications

opeomeaneme					
Fluid	Compressed air				
Max. operating pressure	1.0 MPa				
Min. operating pressure	0.05 MPa				
Proof pressure	1.5 MPa				
Ambient temperature	5 to 60°C				
Nominal filtration rating	0.01 µm (Filtering efficiency 99.9%)				

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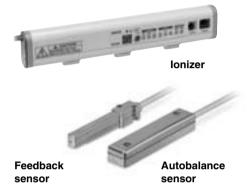
Related Products

Ionizer Series IZS31

Refer to Best Pneumatics No. 6 for details.

Controlled ion balance by sensor

- Rapid elimination of static electricity by a feedback sensor
- Ion balance control by an autobalance sensor



Ionizer model		IZS31-□□ (NPN spec.)	IZS31-□□P (PNP spec.)			
Ion generation method		Corona discharge type				
Method of applying voltage		Sensing DC,	Pulse DC, DC			
Output for emitting electricity		±7000 V				
Ion balance Note)		±30 V (in the case of stainless steel electrode needle ±100 V)				
	Fluid	Air (clean and dry)				
Air purge	Operating pressure	e 0.7 MPa or less				
	Connecting tubing O.D.	ø4				
Electrode needle material		Tungsten, Silicon, Stainless steel				

Note) In case where air purge is performed between a charged object and an ionizer at a distance of 300 mm.

Electrode Cartridge Number, Weight

Bar length (mm)	300	380	620	780	1100	1260	1500	1900	2300
Electrode cartridgenumber	3	4	7	9	13	15	18	23	28
Mass (g)	470	530	720	850	1100	1220	1410	1730	2040

Clean Regulator Series SRH/SRP

Refer to pages 587 to 607 for details.

Stainless steel regulator controlled for contamination

Series SRH

Series SRP



Series SRH

Series	Port size Rc							
Series	1/8	1/4	3/8	1/2	9/16-18UNF	7/8-14UNF		
SRH3000	lacksquare	lacktriangle			-ullet			
SRH4000		-igoplus	-ullet	-igoplus		-igoplus		

Series SRP

Series	Port size Rc				
Series	M5	1/8			
SRP1000	•	•			

Clean Gas Filter Series SF

Refer to pages 221 to 242 for details.



Cartridge Type

Series	Type	Main material			Thread		Port	size
Series 1 y	туре	Element	Housing	Seal	type	M5	5	1/4
100 SFA 200	Disc	PTFE +	Stainless	Fluorine	Rc			-
300	00	Polyester	steel 316 (Electro- polishing)	rubber	NPT TSJ UOJ			
SFB100	Straight	PTFE + PFA		(FPM)		•	—	•

Disposable Type

Disposable Type								
Carrian Turns		Main material			Thread	Port size		
Series	Type	Element	Housing	Seal	type	1/4	3/8	
SFB300	Straight	PTFE + PFA	Stainless steel 316 (Electro- polishing)	_	Rc TSJ URJ	•		
SFC100	Multiple disc	PTFE + PVDF		O-ring PTFE		•	<u> </u>	





Series SFD Specific Product Precautions 1

Be sure to read before handling. Refer to front matters 42 and 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Selection

<u> Marning</u>

- 1. Thoroughly and carefully confirm the purpose of use, required specifications and operating conditions (fluid, pressure, flow rate, nominal filtration rating and environment) then select a model within the specifications.
- 2. The product is not certified under the High Pressure Gas Safety law, so for nitrogen, its maximum operating pressure will be 0.99 MPa (gauge pressure).
- Contact us beforehand if the product will be used in an application such as a caisson shield, breathing, food and/or medical treatment that affects the human body directly or indirectly.
- 4. If the compressed air includes ozone, do not use it since it may damage the product or cause malfunction. When it includes ozone, use a clean gas filter (SFA/B/C).

Mounting

Marning

1. Instruction manual

Mount the product after reading and understanding the instruction manual. Keep it in a location where it can easily be found.

2. Flushing

Flush the piping line when the filter is used for the first time or has been replaced. In the event of connecting such as piping, flush (air blow) when using this product for the first time or replacing its elements in order to reduce the affect of the dust generated from the connection, etc. Flushing the line is also required to eliminate contamination resulting from the piping line installation. Therefore, be sure to flush the line before actually running the system. Fix all mounting parts for use.

Use fittings with resin threads for the connection of fittings to the IN and OUT ports.

Using fittings with metal threads could damage the IN and OUT ports.

4. Connect tubing to the IN and OUT one-touch fittings in accordance with the precautions

1. Connect the piping in accordance with the flow direction marked on the case.

If connected in reverse, the element could break.

2. The mounting orientation does not affect the performance, but if excessive force is applied to the SFD100 series, the body may become disconnected from the bracket.

Therefore, take particular care about the mounting orientation.

Caution on Installation

⚠ Warning

1. The material of the element is polycarbonate.

The material is resistant to wiping with alcohol, but is not suitable for atmospheres or places with organic solvents, chemicals, cutting oils, synthetic oils, ester base compressor oils, alkalis or thread locking agents.

⚠ Caution

- 1. If the pressure difference (pressure drop) between the inlet and the outlet exceeds 0.1 MPa, it can cause damage to the product.
- 2. Do not install the product in a place where it can be affected by a pulsation (including surge pressure) of over 0.1 MPa.
- 3. Use caution regarding the particles that may be emitted from the outlet side of a pneumatic equipment.

Installation of a pneumatic equipment on the outlet side can deteriorate the cleanliness because a particle will be generated from the equipment.

The mounting position of the pneumatic equipment needs to be considered.

- 4. Set the air flow capacity with an initial pressure drop of 0.03 MPa or less. If the initial pressure drop is set to be high, its service life will be shorten due to clogging.
- 5. Determine the product by the maximum consumption flow rate.

When using compressed air for an air blow application, calculate the maximum volume of air that will be consumed before selecting the SFD series product size.

6. Generally, the following pollutant particles are contained in compressed air.

[Pollutant particle substances contained in the compressed air]

- Moisture (drainage)
- Dusts and particles which are in the surrounding air
- Deteriorated oil which is discharged from the compressor
- Solid foreign matter such as rust and/or oil in the piping
- 1) The SFD series is not compatible with compressed air which contains fluids such as water and/or oil.
- 2) Install a dryer (IDF, IDG, ID series), mist separator (AM series), micro mist separator (AMD series), super mist separator (AME series), or odor removal filter (AMF series), etc., for the source of the air for the SFD series.
- 7. Using with a flow-rate much higher than its specification could lead to exceeding the differential pressure the product can resist.

Use the product within its specifications. Also, take care about the replacement period of the product, taking into consideration that the differential pressure of the filter will increase over time.

HAW

AT

IDFA

IDFB

ID

IDG AMG

AFF

АМ

AMD

AMH AME

AMF

SF SFD

LLB

AD□



Series SFD Specific Product Precautions 2

Be sure to read before handling. Refer to front matters 42 and 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Piping

1. Unpacking the sealed package

Since the filter is sealed in an antistatic double bag, the inner package should be unpacked in a clean atmosphere (such as a clean room).

- 2. Apply a wrench to 2 chamfered flats or hexagon portion on the IN side or the OUT side to prevent the housing from rotating.
- 3. Always tighten threads with the proper tightening torque.

When attaching fittings to the product, tighten with the proper tightening torque shown below.

Material	Tightening torque (N·m)
Resin	2 to 3
Metal	12 to 14

Check the arrow mark on the case which shows the flow direction to connect the IN and OUT ports correctly.

If connected in reverse, the element could break.

Maintenance

Marning

- 1. Follow the maintenance procedures in the instruction manual. If handled incorrectly equipment or device can be damaged or cause a malfunction.
- 2. When removing the product, exhaust the air and ensure the air is released to atmosphere before removing it.
- 3. When the element comes to the end of its life, immediately replace it with a new filter or replacement element (cartridge type).

Service life of element

The service life of the element ends when either of the following two conditions occurs.

- 1) After 1 year of usage has elapsed.
- 2) When the pressure drop reaches 0.1 MPa even though the operating period has been less than 1 year.

Operating Environment

⚠ Warning

1. Do not operate under the conditions listed below due to a risk of malfunction.

In locations having corrosive gases, organic solvents, and chemical solutions, or in locations in which these elements are likely to adhere to the equipment.

In locations in which salt water, water, or water vapor could come in contact with the equipment.

In locations that are exposed to direct sunlight. (Shield the equipment from sunlight to prevent its resin material from ultraviolet ray degradation or overheating.)

In locations that have a heat source and poor ventilation. (Shield the equipment from heat sources to protect it from softening degradation due to radiated heat.)

In locations that are exposed to shocks and vibrations.

In locations with high humidity or a large amounts of dust.

When the product is used for blowing, use caution to prevent the work from being damaged by entrained air from the surrounding area.

When the compressed air is used for air blow, the exhausted air from the blow nozzle may have taken in airborne foreign matter (such as solid particle, fluid particle) from the surround air. The foreign matter will be sprayed on the work, and the airborne foreign matter may adhere to it. Therefore, use caution for the surrounding environment.

Other Tube Brands

∧ Caution

- 1. When tubing of brands other than SMC's are used, verify that the tubing O.D. satisfies the following accuracy:
 - 1) Polyolefin tube: Within ±0.1 mm
 - 2) Polyurethane tubing: Within +0.15 mm, within -0.2 mm
 - 3) Nylon tubing: Within ±0.1 mm
 - 4) Soft nylon tubing: Within ±0.1 mm

Do not use tubing which does not meet these outside diameter tolerances. It may not be possible to connect them, or they may cause other trouble, such as air leakage or the tube pulling out after connection.

The recommended tube for the clean fitting is polyolefin tube. Other tubes can satisfy the performance in terms of leakage, tensile strength, etc., but impair the cleanliness. Note this point for use.

