Air Preparation Equipment Industrial Filters

Air Preparation Equipment

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Industrial Filters

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FGE	Industrial Filter: Vessel Series	p. 357	p. 744, 746
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Air Preparation Equipment

Indication of Replacement of Elements, Inspection Items

The following describes the general contents of the element replacement and regular check.

Main line filter/mist separator/micro mist separator replacement standards and inspection items

Replacement standards

<Element replacement timing>

a. For AFF2C to 22C, 37B, 75B, AM 150C to 550C, 650, and 850

The pressure drop reaches 0.1 MPa or two years have elapsed after operation start, whichever comes earlier. [The pressure drop can be checked using the equipment with the element service indicator (-T) or differential pressure gauge (made to order specifications).]

b. For AFF75A to 220A, AMD8□□ to AMD10□□ (Free standing type)

The pressure drop reaches 0.1 MPa or one year has elapsed after operation start, whichever comes earlier. Check the pressure drop using the pressure gauge. (Equipment with pressure gauge: -G)

c. For AME

If red spots appear on the element surface before the standards (a) shown above are satisfied, replace the element.

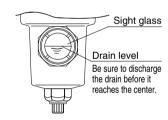
d. For AMF

If oil odor is found at the outlet before the standards (a) or (b) shown above are satisfied, replace the element.

When replacing the element, replace also the O-ring and gasket with new ones. For details about how
to replace the O-ring and gasket, Refer to relevant pages that describe the replacement parts in detail.

■ Inspection items

- ① If the element reaches the replacement timing, immediately replace the element with a new one. If the element is used continuously without replacement, the element may be damaged.
- ② Be sure to discharge the drain accumulated in the filter container. If the drain is not discharged, the accumulated drain flows to the outlet. When using the AFF2C to 22C, 37B, 75B, AM□150C to 550C, 650, or 850 with the drain cock, drain guide, or ball valve, discharge the drain before the drain level reaches the center of the sight glass. If the drain is not discharged, the drain flows to the outlet. Be sure to discharge the drain and check the discharge status while referring to the figure on the right.



- 3 With auto drain
 - This auto drain functions to discharge the drain when the drain level reaches the upper portion of the sight glass.
 - For the AFF2C to 22C, 37B, AM□150C to 550C, and 650 with the auto drain, the drain is automatically discharged with the knob tightened to the "S" side during normal operation. Additionally, the drain can also be discharged manually.

<Manual operation procedure>

A manual knob is provided at the end of the auto drain. This knob is tightened to the "S" side during normal operation. When the knob is loosened to the "O" side, the drain can be discharged. (Note that the drain gushes from the drain port if the pressure remains inside the filter.)



■ Probable troubles (Reference)

Refer to the "Troubleshooting." (p. 334)

2 Troubleshooting

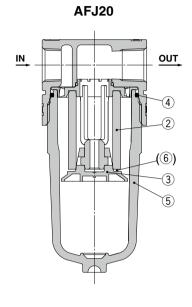
The following describes the general contents of the troubleshooting.

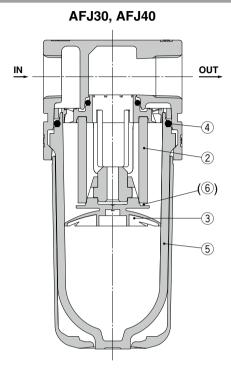
Trouble (Symptom)	Cause	Corrective action
The pressure drop is large.	The flow rate is excessive.	Use the equipment at a flow rate that is lower than the max. flow rate diagram stated on the catalog or review the filter size.
	The element is used continuously even after its service life has expired.	Replace the element.
Oily contents or solid foreign matter come to the secondary side.	The flow rate is excessive.	Use the equipment at a flow rate that is lower than the max. flow rate diagram stated on the catalog or review the filter size.
	The element is used continuously even after its service life has expired.	Replace the element.
	The drain discharge is faulty.	[Manual drain] Discharge the drain before it reaches the center of the sight glass. [Auto drain] Clean the inside or replace the auto drain.
	Oily content, such as grease flows out from the equipment installed on the secondary side of the filter.	Install the AM series at the end of the pipe.
	Ambient air is entangled. (When used for the air blow.)	Perform the air blow in a clean environment. The nozzle becomes negative pressure and the ambient air is entangled. This may cause oily content or solid foreign object to enter the blow air.
	The cleaning of the pipe on the secondary side is insufficient.	Clean the inside of the pipe on the secondary side.
The drain leaks outside.	The seat is faulty.	Check the O-ring for foreign matter sticking Check the O-ring for kink, flaw, crack, or deterioration.
The drain leaks from	The seat is faulty (foreign matter is sticking).	Clean the inside or replace the auto drain.
the float type auto drain.	The operation is faulty.	Clean the inside or replace the auto drain.
	The supply pressure is insufficient.	Check the air supply capability. N.O. type 0.1 MPa N.C. type 0.15 MPa

Vacuum Filter

AFJ20 to AFJ40 Series

Construction





* The numbers correspond with those in the "Construction" of the AFJ series in the Web Catalog.

Replacement Parts/Part Nos.

No.	Door	rintian	Material		Model		
INO.	Description		Materiai	AFJ20	AFJ30	AFJ40	
		5 μ m	Non-woven fabric	AF20P-060S	AF30P-060S	AF40P-060S	
2	Filter element	40 μ m	PA	AF22P-820S	AF32P-820S	AF42P-820S	
		80 μ m	PA	AF22P-830S	AF32P-830S	AF42P-830S	
3	Baffle	Baffle		AF22P-040S	AF32P-040S	AF42P-040S	
4	Bowl O-ring Bowl assembly Note 1) Seal Note 2)		NBR	C2SFP-260S	C32FP-260S	C42FP-260S	
5			Polycarbonate	C2SJ	C3SJ	C4SJ	
6			NBR	AW22P-070S	AW32P-070S	AW42P-070S	

Note 1) The bowl assembly includes the bowl O-ring.

Note 2) The seal is for 40 μm and 80 μm elements.

Option/Part Nos.

Model	AFJ20	AFJ30	AFJ40
Bracket assembly Note)	AF22P-050AS	AF32P-050AS	AF42P-050AS

Note) The assembly of a bracket and 2 mounting screws

Bowl Assembly/Part Nos.

Bowl material		Model	
Down material	AFJ20	AFJ30	AFJ40
Polycarbonate	C2SJ	C3SJ	C4SJ
Nylon	C2SJ-6	C3SJ-6	C4SJ-6

Note) The bowl assembly includes the bowl O-ring.





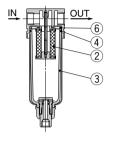
The bowl assembly for the AFJ30 and AFJ40 models comes with a bowl guard (Material: Polycarbonate).

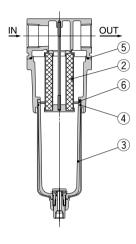
AMJ Series

Construction

AMJ3000, 4000

AMJ5000





* The numbers correspond with those in the "Construction" of the AMJ series in the Web Catalog.

Replacement Parts/Part Nos.

No.	Description Materia		Model			Note
INO.	Description	ivialeriai	AMJ3000	AMJ4000	AMJ5000	Note
2	Element assembly	_	AMJ-EL3000	AMJ-EL4000	AMJ-EL5000	
3	Bowl assembly Note)	_	AMJ-CA30-□	AMJ-CA40-□	AMJ-CA40-□	
4	O-ring	NBR	C3SFP-260S	C4SFP-260S	C4SFP-260S	
5	O-ring	NBR	_	_	111710	
6	Spacer	NBR	AMJ-SA001	AMJ-SA002	AMJ-SA003	

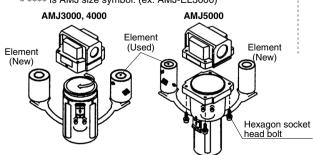
Note) The spacer 6 is not included in the bowl assembly.

Maintenance

Replace the element when one of followings occurs.

- Pressure drop reaches 0.02 MPa.
- Element operates for 2 years.
- Element part number: AMJ-EL****

* **** is AMJ size symbol. (ex: AMJ-EL3000)



2. How to replace the element assembly

First, discharge the pressure in the bowl. (Make pressure 0 MPa.)

- Remove the bowl (housing).
- Replace the element.
- Assemble the bowl (housing).
- * () for AMJ5000

Actuato

Industrial Filters

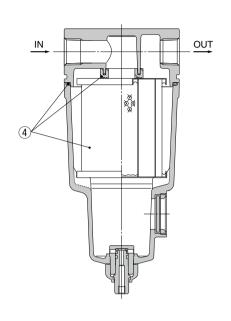


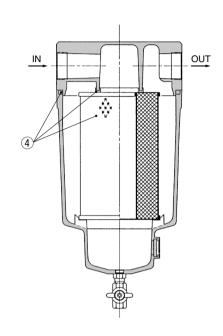
AMG Series

Construction

AMG150C to AMG550C, AMG650

AMG850





* The numbers correspond with those in the "Construction" of the AMG series in the Web Catalog.

Replacement Parts/Part Nos.

NIa	Description*1	Material	Applicable				Model			
NO.	Description	Iwateriai	model*2	AMG150C	AMG250C	AMG350C	AMG450C	AMG550C	AMG650	AMG850
4	Element	Resin,	Except option F	AMG-EL150	AMG-EL250	AMG-EL350	AMG-EL450	AMG-EL550	AMG-EL650	AMG-EL850
4	assembly	others	For option F	AMG-EL150-F	AMG-EL250-F	AMG-EL350-F	AMG-EL450-F	AMG-EL550-F	_	_

^{*1)} Element assembly: With gasket (1 pc.) and O-ring (1 pc.)

Maintenance

1.Element replacement

Extremely dirty air might cause clogging due to deteriorated oil or rust. Replacement is necessary regularly. (When a pressure drop reached 0.1 MPa or replace element with new one when the element has been used for 2 years.)

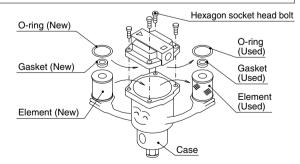
Element (gasket, O-ring accessory) part number: AMG-EL***

* *** is AMG size symbol. (Ex: AMG-EL150)

2. How to replace the element assembly

First, discharge the pressure in the body. (Make pressure 0 MPa.) $\,$

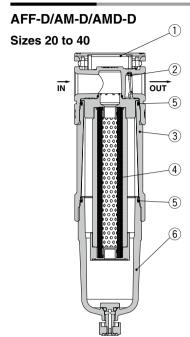
- Remove the 4 hexagon socket head bolts.
- Replace the element, gasket, O-ring.
- Tighten the hexagon socket head bolts.



^{*2)} F option, the rubber material: In the case of fluororubber

AFF-D/AM-D/AMD-D Series The Replacement Procedure is on Table 1.10

Construction

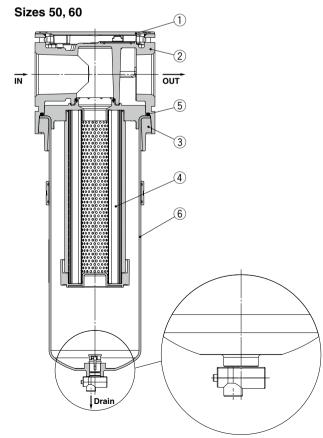


Component Parts

No.	Description	Material
1	Body cover	Resin
2	Body	Aluminum die-cast
3	Joint	Aluminum die-cast

Replacement Parts/Part Nos.

No.	Desa		Size		
INO.	Description		20	30	40
		AFF	AFF24P-060AS	AFF34P-060AS	AFF44P-060AS
4	Element	AM	AM24P-060AS	AM34P-060AS	AM44P-060AS
4	Element	AMD	AMD24P-060AS	AMD34P-060AS	AMD44P-060AS
		AMK	AMK24P-060AS	AMK34P-060AS	AMK44P-060AS
- 5	Bowl seal Bowl assembly		C2SFP-260S	C32FP-260S	C42FP-260S
6			F	Refer to the next page).



Component Parts

<u> </u>	iiponent i arts	
No.	Description	Material
1	Body cover	Resin
2	Body	Aluminum die-cast
3	Flange	Aluminum die-cast

Replacement Parts/Part Nos.

No.	Description		Size				
INO.	Descri	AFF AFF	50	60			
	4 Element	AFF	AFF54P-060AS	AFF64P-060AS			
4		AM	AM54P-060AS	AM64P-060AS			
		AMD	AMD54P-060AS	AMD64P-060AS			
5	Bowl sea	l	AM54P-160S				
6	Bowl ass	embly	Refer to "Bowl Assembly/Part Nos."				

Compressed Air Preparation Filter

AFF-D/AM-D/AMD-D Series Procedure is on 710



Construction

AFF-D/AM-D/AMD-D

Bowl Assembly/Part Nos.

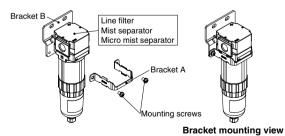
Bowl	Drain discharge	Drain port	Other			Size			
material	mechanism	Diaiii port	Other	20	30	40	50	60	
material		With drain cock	_	C2SF-D	_	_	AM54P-120AS	AM64P-120AS	
		WILLI GEALD COCK	With bowl guard	C2SF-C-D	C3SF-D	C4SF-D	_	_	
	Manual	Drain cock with barb fitting	With bowl guard		C3SF-W-D	C4SF-W-D	AM54P-120AS-W	AM64P-120AS-W	
Polycarbonate,		With drain guide	_	C2SF□-J-D	_	_	AM54P-□120AS-J	AM64P-□120AS-J	
Stainless steel		(without valve function)	With bowl guard	C2SF□-CJ-D	C3SF□-J-D	C4SF□-J-D	_	_	
		Normally closed	_	AD27-D	_	_	AM54P-□120AS-C	AM64P-□120AS-C	
	Automatic	(N.C.)	With bowl guard	AD27-C-D	AD37□-D	AD47□-D	_	_	
	(Auto drain)	Normally open	_	_	_	_	AM54P-□120AS-D	AM64P-□120AS-D	
		(N.O.)	With bowl guard	_	AD38□-D	AD48□-D	_	_	
	Manual	With drain cock	_	C2SF-6-A	_	_	_	_	
			With bowl guard	C2SF-6C-A	C3SF-6-D	C4SF-6-D	_	_	
		Drain cock with barb fitting	With bowl guard	_	C3SF-6W-D	C4SF-6W-D	_	_	
Nylon			With drain guide	_	C2SF□-6J-A	_	_	_	_
Nylon		(without valve function)	With bowl guard	C2SF□-6CJ-A	C3SF□-6J-D	C4SF□-6J-D	_	_	
		Normally closed	_	AD27-6-A	_	_	_	_	
	Automatic	(N.C.)	With bowl guard	AD27-6C-A	AD37□-6-D	AD47□-6-D	_	_	
	(Auto drain)	Normally open (N.O.)	With bowl guard		AD38□-6-D	AD48□-6-D	_	_	
		With drain cock	_	C2SF-2-A	C3SF-2-A	C4SF-2-A	_	_	
	Manual	With drain cock	With level gauge		C3LF-8-A	C4LF-8-A	_	_	
	Ivialiual	With drain guide	_	C2SF□-2J-A	C3SF□-2J-A	C4SF□-2J-A	_	_	
Metal		(without valve function)	With level gauge	_	C3LF□-8J-A	C4LF□-8J-A	_	_	
wetai		Normally closed		AD27-2-A	AD37□-2-A	AD47□-2-A	_	_	
	Automatic	(N.C.)	With level gauge	_	AD37□-8-A	AD47□-8-A	_	_	
	(Auto drain)	Normally open	_	_	AD38□-2-A	AD48□-2-A	_	_	
		(N.O.)	With level gauge	_	AD38□-8-A	AD48□-8-A	_	_	

- * The bowl assembly for sizes 20 to 40 comes with a bowl seal. The bowl assembly for sizes 50 and 60 comes with a flange and a bowl seal.
- * The 🗆 in the bowl assembly part numbers is for indicating the pipe thread type (applicable tubing for the auto drain). No indication is necessary for an Rc thread; however, indicate "N" for an NPT thread, and "F" for a G thread. (For auto drain, Nil: ø10, N: ø3/8") Please contact SMC separately for psi and °F unit display specifications.

Options/Part Nos.

Description	Size						
Description	20	30	40	50, 60			
Bracket assembly	AF24P-070AS AF34P-070AS AF44P-070AS AF54P-070						
Auto drain	Refer to "Bowl Assembly/Part Nos."						

^{*} The assembly consists of an A and B bracket and 2 mounting screws.



Maintenance

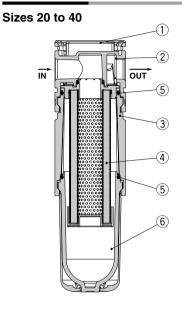
∆Warning

1. The recommended replacement timing for the element is within 2 years from the start of use or prior to a product pressure drop of 0.1 MPa, whichever comes first. Failure to replace the element in a timely manner may result in element breakage.

AMK-D Series

The Replacement Procedure is on p. 730

Construction



Component Parts

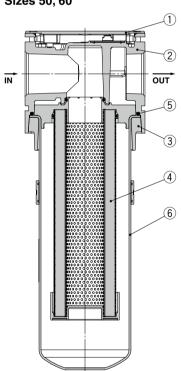
N	o. Description	Material			
1	Body cover	Resin			
2	Body	Aluminum die-cast			
3	Joint	Aluminum die-cast			

Replacement Parts/Part Nos.

No.	Description	Model					
INO.	Description	AMK20	AMK30	AMK40			
4	Element	AMK24P-060AS	AMK34P-060AS	AMK44P-060AS			
5	Bowl seal	C2SFP-260S	C32FP-260S	C42FP-260S			
6	Bowl assembly	Refer to the next page.					

* When it is time to replace the element, refer to the maintenance instructions in the specific product precautions (page 341).

Sizes 50, 60



Component Parts

••••	pononii arto	
No.	Description	Material
1	Body cover	Resin
2	Body	Aluminum die-cast
3	Flange	Aluminum die-cast

Replacement Parts/Part Nos.

No. Description 50 60 4 Element AMK54P-060AS AMK64P-0	
4 Element AMK54P-060AS AMK64P-)
	-060AS
5 Bowl seal AM54P-160S	
6 Bowl assembly Refer to "Bowl Assembly/Part Nos."	,,



Activated Carbon Filter

AMK-D Series



Construction

Bowl Assembly/Part Nos.

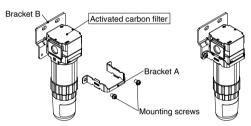
Bowl material	Othor	Model								
Bowi material	Other	AMK20	AMK30	AMK40	AMK50	AMK60				
Polycarbonate,	_	C2SF-D-X401	C3SK-D	C4SK-D	AMK54P-120AS	AMK64P-120AS				
Stainless steel	With bowl guard	C2SK-C-D	_	_	_	_				
Mules	_	C2SF-6-A-X401	C3SK-6-D	C4SK-6-D	_	_				
Nylon	With bowl guard	C2SK-6C-D	_	_	_	_				
Metal	_	C2SF-2-A-X401	C3SF-2-A-X401	C4SF-2-A-X401	_	_				

^{*} The bowl assembly for sizes 20 to 40 comes with a bowl seal. The bowl assembly for sizes 50 and 60 comes with a flange and a bowl seal. Please contact SMC separately for psi and °F unit display specifications.

Option/Part Nos.

Description	Model					
Description	AMK20	AMK30	AMK40	AMK50, 60		
Bracket assembly	AF24P-070AS	AF34P-070AS	AF44P-070AS	AF54P-070AS		

^{*} The assembly consists of an A and B bracket and 2 mounting screws.



Bracket mounting view

Maintenance

∆Warning

1. AMK20 to 60-D

1 year from the start of use or before the service life reaches 2000 hours (The replacement timing of the element varies depending on the operating conditions. Even before the above replacement timing is reached, if an oil smell is emitted from the outlet, replace the element periodically thereafter.)

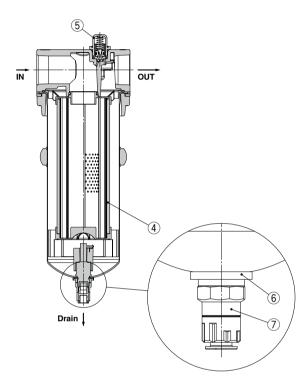


AFF D/AM D/AMD D Series Replacement Procedure is on



Construction

$AFF \square D/AM \square D/AMD \square D$



Replacement Parts/Part Nos

Treplacement i arts/i art ivos.								
No.	Description		Size					
INO.	Des	cription	AFF AFF-EL70D A AM AM-EL70D A	80D	90D			
4 E		For AFF	AFF-EL70D	AFF-EL80D	AFF-EL90D			
	Element	For AM AM-EL70D		AM-EL80D	AM-EL90D			
		For AMD	AMD-EL70D	AMD-EL80D	AMD-EL90D			
5	Element se	rvice indicator	AM-SA072					
6	Drain port	spacer	AM-SA075					
7	Auto	For Rc, G thread	AD43PA-D					
′	drain*1	For NPT thread	NAD43PA-D					

^{*1} The -H and -J specifications cannot be replaced.

Maintenance

1. Replace the element according to the replacement timing explained below. Failure to do so may result in element breakage.

<Element replacement>

Replacement is recommended after the element service indicator begins to display red but before the level of red reaches the top or within 2 years from the start of use, whichever comes first.

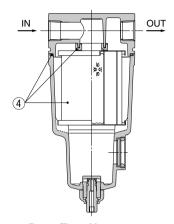
- 2. When replacing the element, also replace the O-ring with a new one. Refer to the operation manual for replacement procedures.
- 3. To replace the element, make sure that the residual pressure in the filter container is zero. Replacement with residual pressure in the container may cause injury or damage of the filter.



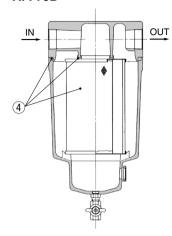
AFF Series

Construction

AFF2C to AFF22C, AFF37B



AFF75B



* The numbers correspond with those in the "Construction" of the AFF series in the **Web Catalog**.

Replacement Parts/Part Nos.

No.	Description*1 Materia		Applicable	Model							
	Description	Malenai	model*2	AFF2C	AFF4C	AFF8C	AFF11C	AFF22C	AFF37B	AFF75B	
4	Element	Cotton paper,	Except option F	AFF-EL2B	AFF-EL4B	AFF-EL8B	AFF-EL11B	AFF-EL22B	AFF-EL37B	AFF-EL75B	
	assembly	others	For option F	AFF-EL2B-F	AFF-EL4B-F	AFF-EL8B-F	AFF-EL11B-F	AFF-EL22B-F	_	_	

- *1) Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
- *2) F option, the rubber material: In the case of fluororubber

Maintenance

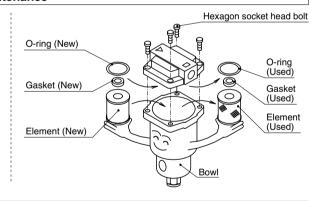
1.Replace the element when one of followings occurs.

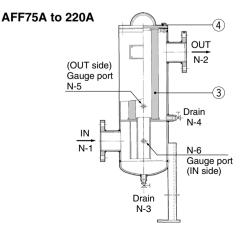
- Pressure drop reaches 0.1 MPa.
- Element operates for 2 years.
 Element assembly (gasket, O-ring accessory) part number:
 AFF-EL***
- * *** is AFF size symbol. (ex.: AFF-EL2B)

2. How to replace the element assembly

First, discharge the pressure in the body. (Make pressure 0 MPa.)

- Remove the 4 hexagon socket head bolts.
- Replace the element, gasket, O-ring.
- Tighten the hexagon socket head bolts.





Replacement Parts/Part Nos.

No		Description	Motorial	Qty.	Model				
INO.	Description	IVIAIEIIAI	AFF75A		AFF125A	AFF150A	AFF220A		
3	3	Element	_	1	EC700-003N		EC800-003N	EC900-003N	
4	ļ	Seal	NBR	1	AL-33S		AL-34S	AL-35S	

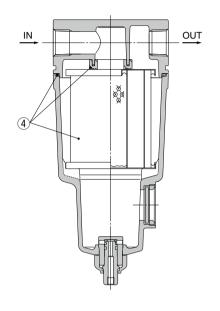


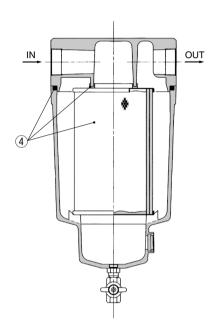
AM Series

Construction

AM150C to AM550C, AM650

AM850





* The numbers correspond with those in the "Construction" of the AM series in the Web Catalog.

Replacement Parts/Part Nos.

			,,	-						
No	Description*1	Motorial	Applicable				Model			
INO.	Description	Materiai	model*2	AM150C	AM250C	AM350C	AM450C	AM550C	AM650	AM850
	Element	Glass fiber,	Except option F	AM-EL150	AM-EL250	AM-EL350	AM-EL450	AM-EL550	AM-EL650	AM-EL850
4	assembly	others	For option F	AM-EL150-F	AM-EL250-F	AM-EL350-F	AM-EL450-F	AM-EL550-F	_	_

- *1) Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
- *2) F option, the rubber material: In the case of fluororubber

Maintenance

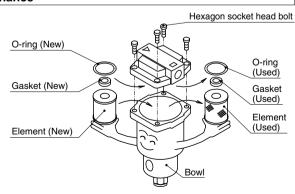
Replace the element when one of followings occurs.

- Pressure drop reaches 0.1 MPa.
- Element operates for 2 years.
 Element assembly (gasket, O-ring accessory) part number:
 AM-EL***
- * *** is AM size symbol. (ex.: AM-EL150)

2. How to replace the element assembly

First, discharge the pressure in the body. (Make pressure 0 MPa.)

- Remove the 4 hexagon socket head bolts.
- Replace the element, gasket, O-ring.
- Tighten the hexagon socket head bolts.



Actu

Rotary Actuators Air Grippers

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> Air Preparatio Equipment

t Industrial Filters

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Modular F.R.L. Pressure Control Equipment

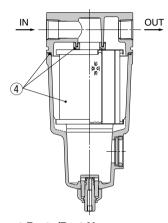
Air Preparation Equipment | |



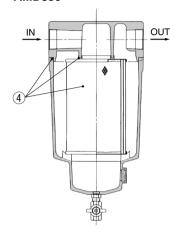
AMD Series

Construction

AMD150C to AMD550C, AMD650



AMD850



* The numbers correspond with those in the "Construction" of the AMD series in the **Web Catalog**.

Replacement Parts/Part Nos.

No	Description*1	Material	Applicable		Model							
INO.	Description	ivialenai	model*2	AMD150C	AMD250C	AMD350C	AMD450C	AMD550C	AMD650	AMD850		
4	Element	Glass fiber,	Except option F	AMD-EL150	AMD-EL250	AMD-EL350	AMD-EL450	AMD-EL550	AMD-EL650	AMD-EL850		
4	assembly	others	For option F	AMD-EL150-F	AMD-EL250-F	AMD-EL350-F	AMD-EL450-F	AMD-EL550-F	_	_		

- *1) Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
- *2) F option, the rubber material: In the case of fluororubber

Maintenance

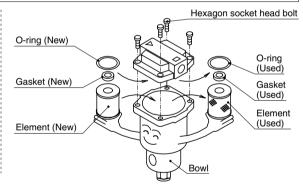
Replace the element when one of followings occurs.

- Pressure drop reaches 0.1 MPa.
- Element operates for 2 years (1 year for free standing type).
 Element assembly (gasket, O-ring accessory) part number:
 AMD-EL***
- * *** is AMD size symbol. (ex.: AMD-EL150)

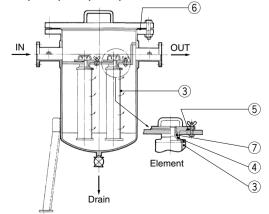
2. How to replace the element assembly

First, discharge the pressure in the body. (Make pressure 0 MPa.)

- Remove the 4 hexagon socket head bolts.
- Replace the element, gasket, O-ring.
- Tighten the hexagon socket head bolts.



AMD80□, 81□, 9□0, 9□1, 10□0



Replacement Parts

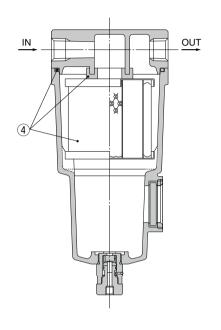
Model applicable	3 Element		Seal (Material: NBR)		Seal (Material: NBR)		Gaske (Material: V#65	-	O-ring (Material: NBR)	
filter	Part no.	Qty.	Part no.	Qty.	Part no.	Qty.	Part no.	Qty.	Part no. (Nominal)	Qty.
AMD800 AMD810		1		1	OD112XID90XT3	1	AL-61S	1		1
AMD801 AMD811	63174	1	63148	1	_	_	AL-60S	1		1
AMD900 AMD910		3		3	OD112XID90XT3	3	AL-63S	1	KA00061 (1A-G35)	3
AMD901 AMD9111		3		3	_	_	AL-62S	1		3
AMD1000 AMD1010		5		5	OD112XID90XT3	5	AL-31S	1		5

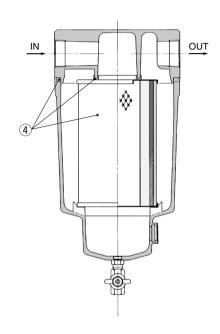
AMH Series

Construction

AMH150C to AMH550C, AMH650

AMH850





* The numbers correspond with those in the "Construction" of the AMH series in the Web Catalog.

Replacement Parts/Part Nos.

	J.400		,, a	•								
No	Description*1	Motorial	Applicable	Model								
INO.	Description	Materiai	model*2	AMH150C	AMH250C	AMH350C	AMH450C	AMH550C	AMH650	AMH850		
4	Element	Glass fiber,	Except option F	AMH-EL150	AMH-EL250	AMH-EL350	AMH-EL450	AMH-EL550	AMH-EL650	AMH-EL850		
4	assembly	others	For option F	AMH-EL150-F	AMH-EL250-F	AMH-EL350-F	AMH-EL450-F	AMH-EL550-F	_	_		

- *1) Element assembly: With gasket (1 pc.) and O-ring (1 pc.)
- st 2) F option, the rubber material: In the case of fluororubber

Maintenance

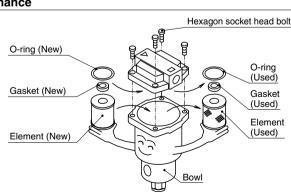
Replace the element when one of followings occurs.

- Pressure drop reaches 0.1 MPa.
- Element operates for 2 years.
 Element assembly (gasket, O-ring accessory) part number:
 AMH-EL***
- * *** is AMH size symbol. (ex.: AMH-EL150)

2. How to replace the element assembly

First, discharge the pressure in the body. (Make pressure 0 MPa.)

- Remove the 4 hexagon socket head bolts.
- Replace the element, gasket, O-ring.
- Tighten the hexagon socket head bolts.



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Air Preparation Equipment

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Modular F.R.L. Pressure Control Equipment

Air Preparation Equipment Industrial Filters

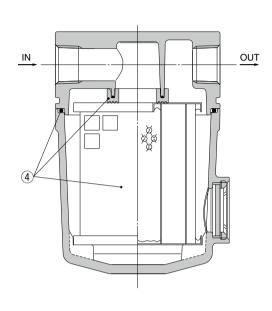


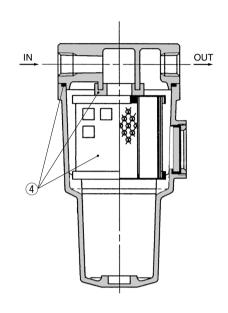
AME Series

Construction

AME150C to AME550C

AME650, AME850





* The numbers correspond with those in the "Construction" of the AME series in the Web Catalog.

Replacement Parts/Part Nos.

No	Description*1	Material	Applicable		Model								
INO.	Description*1 Material Applicable model*2			AME150C	AME250C	AME350C	AME450C	AME550C	AME650	AME850			
	Element	Glass fiber,	Except option F	AME-EL150	AME-EL250	AME-EL350	AME-EL450	AME-EL550	AME-EL650	AME-EL850			
4	assembly	others	For option F	AME-EL150-F	AME-EL250-F	AME-EL350-F	AME-EL450-F	AME-EL550-F	_	_			

^{*1)} Element assembly: With gasket (1 pc.) and O-ring (1 pc.)

Maintenance

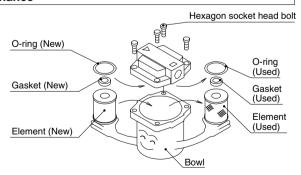
Replace the element when one of followings occurs.

- $\bullet\,\mbox{Red}$ spots appear on the element surface.
- Operated for 2 years, or pressure drop reaches 0.1 MPa.
 Element assembly (gasket, O-ring accessory) part number:
 AME-EL***
- * *** is AME size symbol. (ex.: AME-EL150)

2. How to replace the element assembly

First, discharge the pressure in the body. (Make pressure 0 MPa.)

- Remove the 4 hexagon socket head bolts.
- Replace the element, gasket, O-ring.
- Tighten the hexagon socket head bolts.







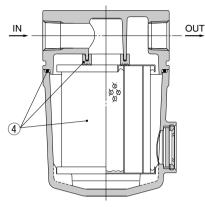
^{*2)} F option, the rubber material: In the case of fluororubber

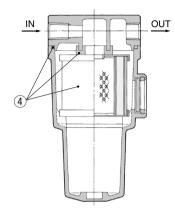
AMF Series

Construction

AMF150C to AMF550C

AMF650, AMF850





* The numbers correspond with those in the "Construction" of the AMF series in the **Web Catalog**.

Replacement Parts/Part Nos.

No	Description*1	Motorial	Applicable		Model							
NO.	Description	escription*1 Material model*2			AMF250C	AMF350C	AMF450C	AMF550C	AMF650	AMF850		
	Element	Glass fiber,	Except option F	AMF-EL150	AMF-EL250	AMF-EL350	AMF-EL450	AMF-EL550	AMF-EL650	AMF-EL850		
4	assembly	others	For option F	AMF-EL150-F	AMF-EL250-F	AMF-EL350-F	AMF-EL450-F	AMF-EL550-F	_	_		

*1) Element assembly: With gasket (1 pc.) and O-ring (1 pc.)

*2) F option, the rubber material: In the case of fluororubber

Maintenance

1.Element replacement

Since the element life depend on odor concentration of compressed air, it cannot be specified. Confirm deodorizing capacity remaining period, and replace the element periodically afterwards.

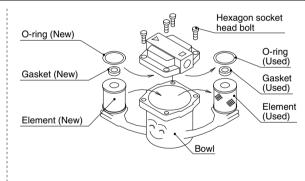
Replace the element when you smell oil on the outlet side. Replace the element with a new one when the element has been used for 2 years, or when pressure drop reaches 0.1 MPa. Element assembly (gasket, O-ring accessory) part number: AMF-EL***

* *** is AMF size symbol. (ex.: AMF-EL150)

2. How to replace the element assembly

First, discharge the pressure in the body. (Make pressure 0 MPa.)

- Remove the 4 hexagon socket head bolts.
- Replace the element, gasket, O-ring.
- Tighten the hexagon socket head bolts.



AMF80□, 90□, 1000 N-4 Pressure outlet (IN side) IN N-1 Pressure outlet (OUT side) OUT N-2 Element A 3

Replacement Parts

Model applicable	3 Element		Seal (Material: NBR)		5 Seal (Material: NBR)		Gasket (Material: V#6500)		O-ring (Material: NBR)	
filter	Part no.	Qty.	Part no.	Qty.	Part no.	Qty.	Part no.	Qty.	Part no. (Nominal)	Qty.
AMF800		1		1	OD112XID90XT3	1	AL-61S	1		1
AMF801	63271	1		1	_	_	AL-60S	1	KA00061	1
AMF900		3	63148	3	OD112XID90XT3	3	AL-63S	1	1A-G35	3
AMF901		3		3	_	_	AL-62S	1	1A-033	3
AMF1000		5		5	OD112XID90XT3	5	AL-31S	1	1	5

Industrial Filters

Indication of Replacement of Elements, Inspection Items

■ Replacement standards

<Element replacement>

The differential pressure (pressure drop) between the primary side and secondary side reaches 0.1 MPa.

■ Inspection items

Check each seal part for leak periodically.

Check the pressure/temperature periodically to make sure that the filter is within its operable range. If the differential pressure reaches 0.1 MPa during operation, stop the operation and replace the element

If the differential pressure reaches 0.1 MPa during operation, stop the operation and replace the element with a new one.

Remove the dust accumulated in the case periodically.

2 How to Select Element Order Number for Replacement



The element number for replacement is written on the nameplate.



Element number for replacement

Order the element number written in here.

* If the information written on the nameplate cannot be confirmed, please specify the element number as described below.

Order Example

* Element number for FGGSB-20-B002NA



Check the product number of the industrial filter. Confirm the items written on the right.

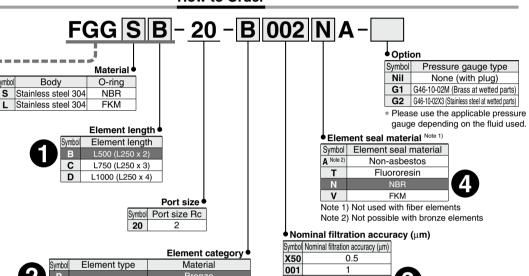
1Element length

- * The element length is the total length of combined short elements.
- 2Element category

Nominal filtration accuracy

4 Element seal material

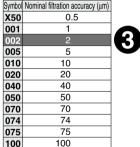
How to Order



105

120

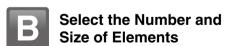
Bronze Sintered metal s Stainless steel Т Polypropylene Fiber G Glass fiber (Honeycomb) н Cotton P Paper Cotton М Stainless steel 304/Epoxy Micromesh Stainless steel 316



105

120

Note) For a comparison with the nominal filtration accuracy according to the element category, refer to pages 353 and 354.



* Please select accordingly from the following two selection types of numbers and sizes.

Specifications

Mod	del	FGGS	B Note 1)	FGGS	C Note 1)	FGGS	D Note 1)	FGGL	B Note 1)	FGGL	C Note 1)	FGGL	D Note 1)
Number of	elements	7 Note 2)	14	7 Note 2)	21	7 Note 2)	28	7 Note 2)	14	7 Note 2)	21	7 Note 2)	28
Element siz	ze	ø65 x L500	ø65 x L250	ø65 x L750	ø65 x L250	ø65 x L1000	ø65 x L250	ø65 x L500	ø65 x L250	ø65 x L750	ø65 x L250	ø65 x L1000	ø65 x L250
	Cover						Stainless	steel 304				•	
Main	Case						Stainless	steel 304					
materials	O-ring			NE	3R					F	M		
	Legs					SS	400 (Chro	matic plati	ng)				

Note 1) Cannot be used with gases

Note 2) In the case of a sintered metal element or paper element



Actuators

There are various types of elements for replacement.

Select respective element type according to the type of industrial filter you are using.

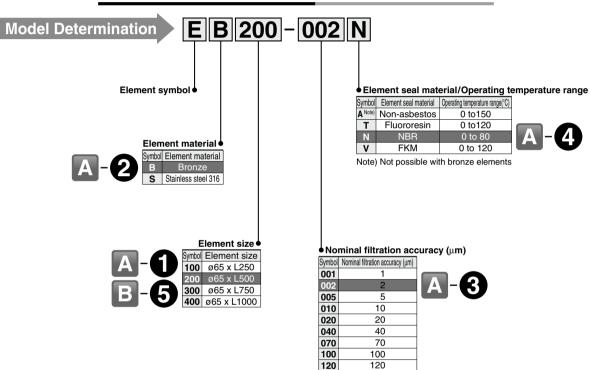


Element Model Determination

Specify the element type by filling out the element number with the respective codes of the items selected in sections A and B.

* As for the number of orders, specify it by item **⑤**, "number of elements", in section B. The number of orders is 7 in this example.





Elements Sintered Metal/Fiber

Sintered Metal Filter Elements

- Outstanding mechanical strength, heat resistance and chemical resistance
- Formed by sintering finely powdered metal, so a high filtration accuracy can be obtained.
- Even if clogging progresses, the element can be reused by cleaning.
- Main applications

Ideal as a check filter for keeping fluid clean. All types of gases, fluids, general solvents and high-temperature fluids



⚠ Caution

Bronze element, but may have been discolored by moisture in the atmosphere, the characteristics are not affected.

Fiber Elements

- Four types of materials with different characteristics are available so the filters are applicable to any application.
- Elements are economical because particle capturing capacity is excellent, and element life is long.
- Elements are disposable so maintenance and replacement are easy.
- Main applications

Cotton	Cleaning water, General neutral fluids, General solvents, Dry air
Polypropylene	Plating fluids, General acids, Alkali fluids, Industrial water, Cooling water
Glass fiber	Acid fluids, High-temperature fluids



Specifications

opeomodions							
Material		Bronze	Stainless steel 316				
Operating temperature (C°) Note 2)	0 to 150 0 to 150					
Nominal filtration accuracy	(µm) Note 3)	1, 2, 5, 10, 20, 40, 70, 100, 120					
Max. differential pressure re	sistance	0.7 MPa					
Element replacement differentia	l pressure	0.1 MPa					
Chemical resistance	Acid	Cannot be used	Can be used Note 1)				
Chemical resistance	Alkali	Cannot be used	Can be used				
Element category of How	to Order	В	S				

- Note 1) Cannot be used with hydrochloric acid, hydrofluoric acid or phosphoric acid
- Note 2) Varies depending on the seal material used
- Note 3) The name is for distinguishing the raw material, and is different from the actual filtration rating. (Refer to the **Web Catalog**.)

How to Order Standard Elements



Element symbol

Element material

Symbol	Element material
В	Bronze
S	Stainless steel 316

Element size

Symbol	Element size
100	ø65 x L250
200	ø65 x L500
300	ø65 x L750
400	ø65 x L1000

Nominal filtration accuracy (μm)

Symbol	Nominal filtration accuracy (µm)				
001	1				
002	2				
005	5				
010	10				
020	20				
040	40				
070	70				
100	100				
120	120				

Element seal material/Operating

ten	temperature range							
Symbol	Element seal material	Operating temperature range(°C)						
A Note)	Non-asbestos	0 to 150						
Т	Fluororesin	0 to 120						
N	NBR	0 to 80						
V	FKM	0 to 120						

Note) Not possible with bronze elements.

Specifications

Material	Core material	Operating temperature (°C)	Nominal filtration accuracy (μm)	Differential pressure resistance (Max.)	Element replacement differential pressure
Cotton	Stainless steel 304	-20 to 100	0.5, 1, 5, 10, 20, 50, 75, 100		
Polypropylene	Polypropylene	0 to 60	0.5, 1, 5, 10, 20, 50, 75, 100	0.2 MPa	0.1 MPa
Glass fiber	Stainless steel 316	0 to 400	1, 5, 10, 20		

Note) Size for all is ø65 x L250. Different lengths are available as a special order up to 750 mm, only for cotton and polypropylene.

How to Order Standard Elements

	ion to Order Standard Elemente						
Element material		Cotton	Polypropylene	Glass fiber			
Core	material	Stainless steel 304	Stainless steel 304 Polypropylene				
ठे	0.5	EH10G	EHM10A	_			
accuracy	1	EH39R10GV	EHM39R10AY	EHK27R10S			
acc	5	EH23R10GV	EHM23R10AY	EHK19R10S			
Hion (£	10	EH19R10GV	EHM19R10AY	EHK15R10S			
lltra (pr	20	EH15R10G	EHM15R10A	EHK10R10S			
Nominal filtration (μm)	50	EH11R10G	EHM11R10A	_			
Ë	75	EH10R10G	EHM10R10A	_			
ž	100	EH8R10G	EHM8R10A				
Element category of How to Order		Н	Т	G			

Note) Element seals are not used for fiber elements.

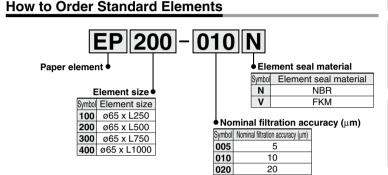


Paper Elements

- Cartridges are pleated for a large filtration area, and elements are economical due to their long service life.
- Main applications

Ideal for filtration of hydraulic oil. lubricating oil, fuel oil, oils for the liquid gas industry, dry inert gases, and dry air





Filter paper (Cotton, Phenol resin impregnated paper)

0 to 80

5, 10, 20

0.6 MPa

Epoxy resin

0.1 MPa

Ρ

Micromesh Elements

- Stainless steel metal mesh has high filtration accuracy.
- Outstanding heat and chemical resistance. Applicable to a wide range of applications
- ▶ Pleated type has 3 times the filtration area of a cylinder.
- Filters are economical because they can be cleaned and repeatedly used.
- Main applications

Please use 40 microns or less as a high-precision filter, and 74 microns or higher as a high-grade strainer. All types of gases and fluids, high-temperature fluids



0-----

Specifications Material

Adhesive used

Operating temperature (C°)

Nominal filtration accuracy (µm)

Max. differential pressure resistance

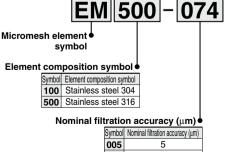
Element replacement differential pressure

Element category of How to Order

Specifications					
Model		EM100	EM500		
Materials		Stainless steel 304	Stainless steel 316		
Jointing material		Epoxy resin	_		
Operating temperature (C°) Note 2)		−5 to 100	-180 to 300		
Nominal filtration accuracy (µm)		5, 10, 20, 40, 74, 105			
Max. differential pressure re	sistance	0.7 MPa			
Element replacement differential	pressure	0.1 MPa			
Chemical resistance Acid		Cannot be used	Can be used Note 1)		
Chemical resistance	Alkali	Can be used	Can be used		
Element category of How to Order		М	L		

Note 1) Cannot be used with hydrochloric acid, hydrofluoric acid or phosphoric acid Note 2) The values depending on the seal material used

How to Order Standard Elements



ratio	ration accuracy (μm) ●					
Symbol	Nominal filtration accuracy (µm)					
005	5					
010	10					
020	20					
040	40					
074	74					
105	105					

(Size ø65 x L250)

Element seal material/Operating

ten	temperature range							
Symbol	Element seal material	Operating temperature range(°C)						
A Note)	Non-asbestos	0 to 150						
T Note)	Fluororesin	0 to 120						
N	NBR	0 to 80						
٧	FKM	0 to 120						

Note) Not possible with EM100 (Stainless steel 304)

	acement Se
Symbol	Part no.

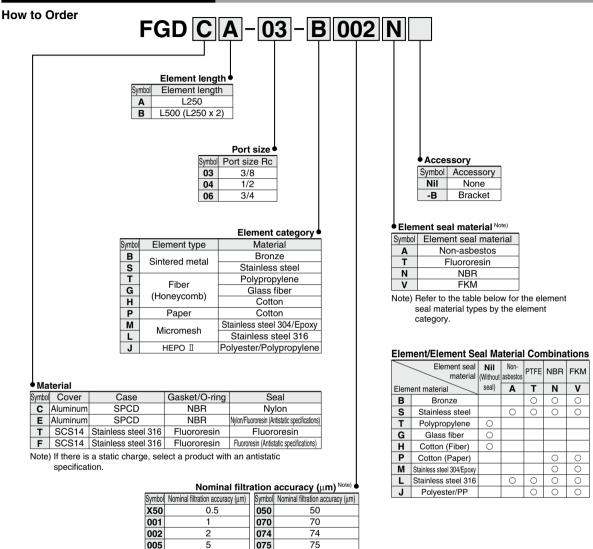
Symbol	Part no.	Quantity
Α	AL-7S	
Т	AL-6S	2
N	AL-8S	
٧	AL-9S	

Industrial Filter

FGD Series 1



Replacement Parts and Seal List



Note) For a comparison with the nominal filtration accuracy according to the element category, refer to the **Web Catalog**.

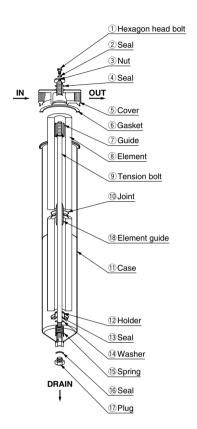
Specifications

, poemetarene									
Mod	Model FGDCA		FGDCB	FGDEA	FGDEB	FGDTA	FGDTB	FGDFA	FGDFB
Number of elements 1 2 Note) 1 2 Note) 1 2 Note) 1			1	2 Note)					
Element size		ø65 to 70 x L250	ø65 to 70 x L500 (L250 x 2)						
	Cover	Aluminum				SCS14			
Main	Case	SPCE				Stainless steel 316			
materials	Gasket/ O-ring	NBR Fluororesin							
	Seal	Ny	Nylon Nylon/Fluororesin			Fluororesin			

Note) 1 element (ø65 x L500) in the case of a sintered metal element or paper element



Replacement Parts and Seal List



Parts descriptions and functions

(Figure shows the product with two FGD□B elements.)

Note) There is no compatibility between the FGDT/F and FGDC/E as the seal structure on the gasket portion is different. Use the cover and case of the same model.

- Refer to pages 351 and 352 for selection.
- Refer to pages 353 and 354 for the replacement element type.
- * The numbers correspond with those in the "Replacement Parts and Seal List" of the FGD series in the **Web Catalog**.

Parts Descriptions and Functions

No.	Description	Material	Function
1	Hexagon head bolt	Stainless steel or iron	Plug to release air in the housing
2	Seal	Resin	
3	Nut	Stainless steel or iron	Tightens the cover
4	Seal	Resin	
(5)	Cover	Stainless steel or Aluminum	The lid of the filter body
6	Gasket	Resin or rubber	
7	Guide	Stainless steel	Seals the gap between the element and tension bolt
8	Element	Depends on the element type	The mounted element collects residue.
9	Tension bolt	Stainless steel or iron	Connects the case and cover
10	Joint	Stainless steel	Seals the area between elements (when two FGD□B elements are used)
11)	Case	Stainless steel or iron	Filter body
12	Holder	Stainless steel	Seals the elements
13	Seal	Resin or rubber	
14)	Washer	Stainless steel	
15)	Spring	Stainless steel	Stabilizes the element
16	Seal	Resin	
17	Plug	Stainless steel or iron	Drainage discharging plug
18	Element guide	Stainless steel or iron	

Replacement Parts

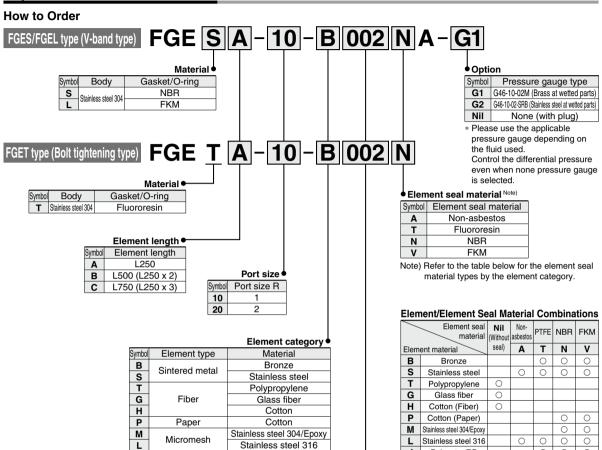
neplacement raits					
Description	Part no.	Applicable model	Part no. (Kit contents)		
	FGD-KT001	FGDC			
Nut kit	FGD-KT002	FGDE	①, ②, ③, ④: 1 pc. each		
NUL KIL	FGD-KT003	FGDT	10, 2, 3, 4. 1 pc. each		
	FGD-KT004	FGDF			
Replacement	FGD-CV005-04	FGDT/F	(5)		
cover	FGD-CV006-04	FGDC/E			
Joint	FGD-OP001	FGD□	10		
	KT-FGDC	FGDC			
Seal kit	KT-FGDE	FGDE	2, 4, 6, 13, 16: 1 pc. each		
Sear Kit	KT-FGDT	FGDT	2, 4, 0, 0, 0. 1 pc. each		
	KT-FGDF	FGDF			
	FGD-CA002	FGDT/F(L250)	7, 9, 11, 12, 13, 14, 15, 16, 17:		
Replacement case	FGD-CA003	FGDT/F(L500)	1 pc. each		
assembly	FGD-CA004	FGDC/E(L250)	Note) Only the FGD-CA003 and CA005 includes (8) element		
	FGD-CA005	FGDC/E(L500)	guide in the set.		

Industrial Filter

FGE Series 1



Replacement Parts and Seal List



Nominal filtration accuracy (µm) Note)

Polyester/Polypropylene

Polyester/PP

			ασσαιασή (μ)
Symbol	Nominal filtration accuracy (µm)	Symbol	Nominal filtration accuracy (μm)
X50	0.5	050	50
001	1	070	70
002	2	074	74
005	5	075	75
010	10	100	100
020	20	105	105
040	40	120	120

HEPO I

Note) For a comparison with the nominal filtration accuracy according to the element category, refer to the **Web Catalog**.

Specifications

Mod	lel	FGESA Note 1)	FGESI	B Note 1)	FGES	C Note 1)	FGELA Note 1)	FGEL	B Note 1)	FGEL	C Note 1)	FGETA	FGI	ΞΤВ	FGI	ETC
Number of elements		4	4 Note 2)	8	4 Note 2)	12	4	4 Note 2)	8	4 Note 2)	12	4	4 Note 2)	8	4 Note 2)	12
Element size		ø65 to 70 x L250		ø65 to 70 x L250			ø65 to 70 x L250	ø65 to 70 x L500			ø65 to 70 x L250	ø65 x L250	ø65 x L500	ø65 x L250	ø65 x L750	ø65 x L250
	Cover		Stainless steel 304													
	Case		Stainless steel 304													
Main materials	Gasket	_				-			-	Fluororesin Fluororesin		Fluororesin				
materials	O-ring		N	IBR				F	KM					_		
	Legs						SS40	0 (Chro	matic p	lating)						

Note 1) Cannot be used with gases

Note 2) In the case of a sintered metal element or paper element

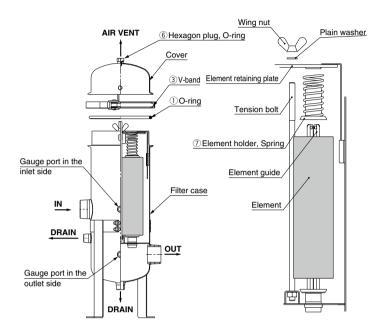


FGE Series 2

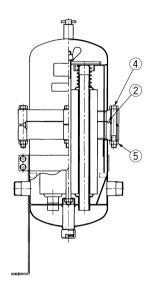


Replacement Parts and Seal List

FGES/FGEL type (V-band type)



FGET type (Bolt tightening type)



Replacement Parts/Part Nos.

No.	Description	Qty.		Applicable model	
INO.		Qıy.	FGES	FGEL	FGET
1	O-ring	1	FGE-KT001	FGE-KT002	_
2	2 Gasket		_	1	AL-19S
3	V-band	1	CY-	24S	_
4	Hexagon head bolt	4	_	_	CB00021
5	Hexagon nut	4	_		DA00110
6	Hexagon plug	1	FGE-OP007	FGE-OP008	
	O-ring	1	FGE-OF007	FGE-OF006	_
7	Spring	4	FGE-0) POOE	
7	Element holder	4	I GE-C	_	

- Refer to pages 351 and 352 for selection.
- Refer to pages 353 and 354 for the replacement element type.
- * The numbers correspond with those in the "Replacement Parts and Seal List" of the FGE series in the **Web Catalog**.

Actuators

Rotary Actuators Air Grippers

Actuators

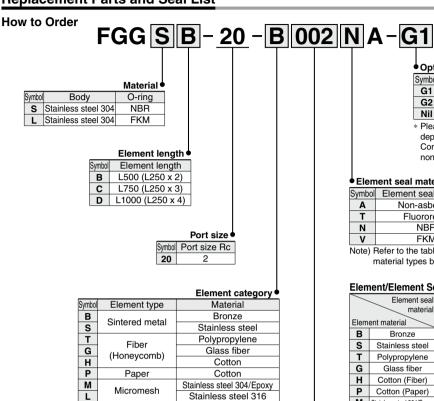


Industrial Filter

FGG Series (1



Replacement Parts and Seal List



Opti	Option							
Symbol	Pressure gauge type							
G1	G46-10-02M (Brass at wetted parts)							
G2	G46-10-02-SRB (Stainless steel at wetted parts)							
Nil	None (with plug)							

* Please use the applicable pressure gauge depending on the fluid used. Control the differential pressure even when none pressure gauge is selected.

Element seal material Note)

Symbol	Element seal material
Α	Non-asbestos
Т	Fluororesin
N	NBR
V	FKM

Note) Refer to the table below for the element seal material types by the element category.

Element/Element Seal Material Combinations

	\	Element seal material	NiI (Without	Non- asbestos	PTFE	NBR	FKM
E	lem	ent material	seal)	Α	Т	N	٧
	В	Bronze			0	0	0
:	S	Stainless steel		0	0	0	0
	Т	Polypropylene	0				
•	G	Glass fiber	0				
	Н	Cotton (Fiber)	0				
I	Р	Cotton (Paper)				0	0
I	М	Stainless steel 304/Epoxy				0	0
	L	Stainless steel 316		0	0	0	0

Nominal filtration accuracy (μm) Note)

Symbol	Nominal filtration accuracy (µm)	Symbol	Nominal filtration accuracy (µm)
X50	0.5	050	50
001	1	070	70
002	2	074	74
005	5	075	75
010	10	100	100
020	20	105	105
040	40	120	120

Note) For a comparison with the nominal filtration accuracy according to the element category, refer to the Web Catalog.

Specifications

Mod	Model		FGGSB Note 1) FGGSC Note 1)		FGGSD Note 1)		FGGLB Note 1)		FGGLC Note 1)		FGGLD Note 1)		
Number of elements		7 Note 2)	14	7 Note 2)	21	7 Note 2)	28	7 Note 2)	14	7 Note 2)	21	7 Note 2)	28
Element size		ø65 x L500	ø65 x L250	ø65 x L750	ø65 x L250	ø65 x L1000	ø65 x L250	ø65 x L500	ø65 x L250	ø65 x L750	ø65 x L250	ø65 x L1000	ø65 x L250
	Cover	Stainless steel 304											
Main	Case	Stainless steel 304											
materials	O-ring	NBR FKM											
	Legs				SS	400 (Chro	omatic plating)						

Note 1) Cannot be used with gases

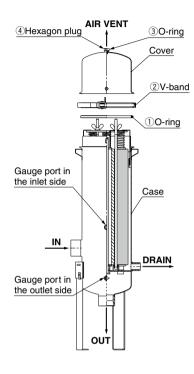
Note 2) In the case of a sintered metal element or paper element

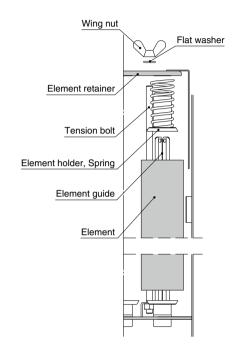


FGG Series 2



Replacement Parts and Seal List





Replacement Parts/Part Nos.

No.	Description	Qty.	Applicable model				
INO.	Description	Giy.	FGGS	FGGL			
1	O-ring	1	FGF-KT01	FGF-KT02			
2	V-band	1	CY-	27S			
3	O-ring	1	FGE-OP007	FGE-OP008			
4	Hexagon plug	1	FGE-OP007	FGE-OP008			

- Refer to pages 351 and 352 for selection.
- Refer to pages 353 and 354 for the replacement element type.
- * The numbers correspond with those in the "Replacement Parts and Seal List" of the FGG series in the **Web Catalog**.

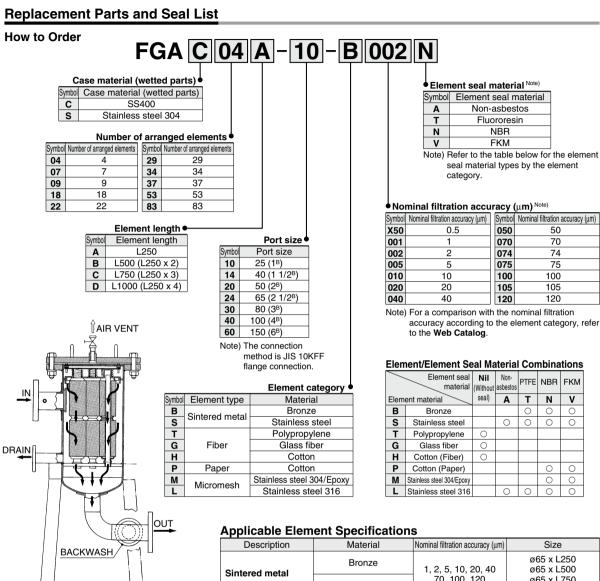
Rotary Actuators Air Grippers

Modular F.R.L.

Air Preparation Equipment

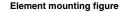
FGA Series (Produced upon receipt of order)





Description Material		Nominal filtration accuracy (µm)	Size	
Sintered metal	Bronze	1, 2, 5, 10, 20, 40	ø65 x L250 ø65 x L500	
Omicroa motar	Stainless steel 316	70, 100, 120	ø65 x L750 ø65 x L1000	
Paper	Cotton (Phenol)	5, 10, 20	ø65 x L250 ø65 x L500 ø65 x L750 ø65 x L1000	
	Cotton	0.5, 1, 5, 10, 20		
Fiber	Polypropylene	50, 75, 100	ø65 x L250	
	Glass fiber	1, 5, 10, 20		
Micromesh	Stainless steel 304	5, 10, 20, 40	ø65 x L250	
MICIOINESII	Stainless steel 316	74, 105	000 X L250	

 Refer to pages 353 and 354 for the replacement element type.



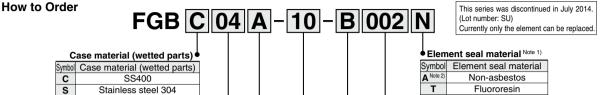


^{*} The numbers correspond with those in the "Replacement Parts and Seal List" of the FGA series in the Web Catalog.

FGB Series (Discontinued products)

The Replacement Procedure is on p. 755

Replacement Parts and Seal List



Number of arranged elements

Symbol	Number of arranged elements	Symbol	Number of arranged elements
04	4	30	30
07	7	36	36
13	13	55	55
19	19	83	83

AIR VENT

BACK

Element length Element length L250 Α В L500 (L250 x 2) С

L750 (L250 x 3) L1000 (L250 x 4)

Symbol	Port size
10	25 (1 ^B)
14	40 (1 1/2 ^B)
20	50 (2 ^B)
24	65 (2 1/2 ^B)
30	80 (3 ^B)
40	100 (4 ^B)
60	150 (6 ^B)

Port size

Note) The connection method is JIS 10KFF flange connection.

	Element seal material			
A Note 2)	Non-asbestos			
Т	T Fluororesin			
N	NBR			
V FKM				

Note 1) Not used with fiber elements Note 2) Not possible with bronze elements

♦ Nominal filtration accuracy (μm) Note)

Symbol	Nominal filtration accuracy (µm)	Symbol	Nominal filtration accuracy (µm)			
X50	0.5	050	50			
001	1	070	70			
002	2	074	74			
005	5	075	75			
010	10	100	100			
020	20	105	105			
040	40	120	120			
	N					

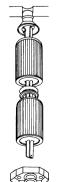
Note) For a comparison with the nominal filtration accuracy according to the element category, refer to the Web Catalog.

- Element category				
Symbol	Element type	Material		
В	Sintered metal	Bronze		
S	Sintered metal	Stainless steel		
Т		Polypropylene		
G	Fiber	Glass fiber		
Н		Cotton		
Р	Paper	Cotton		
M	Micromesh	Stainless steel 304/Epoxy		
L	WILCIOITIESTI	Stainless steel 316		

Applicable Flement Specifications

Applicable Element Specifications					
Description	Material	Nominal filtration accuracy (µm)	Size		
Sintered metal	Bronze	1, 2, 5, 10, 20, 40	ø65 x L250 ø65 x L500		
Sintered metal	Stainless steel 316	70, 100, 120 Stainless steel 316	ø65 x L750 ø65 x L1000		
Paper	Cotton (Phenol)	5, 10, 20	ø65 x L250 ø65 x L500 ø65 x L750 ø65 x L1000		
	Cotton	0.5, 1, 5, 10, 20			
Fiber	Polypropylene	50, 75, 100	ø65 x L250		
	Glass fiber	1, 5, 10, 20			
Miswamash	Stainless steel 304	5, 10, 20, 40	ø65 x L250		
Micromesh	Stainless steel 316	74, 105	903 X L230		

 Refer to pages 353 and 354 for the replacement element type.



Element mounting figure



Rotary Actuators Air Grippers

Modular F.R.L

Air Preparation Equipment

^{*} The numbers correspond with those in the "Replacement Parts and Seal List" of the FGB series in the Web Catalog.

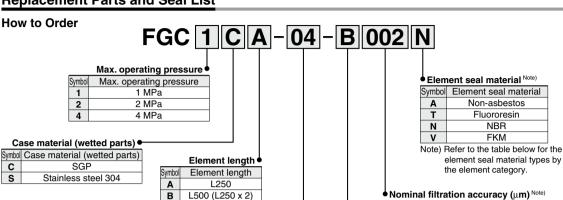
FGC Series (Produced upon receipt of order)



Replacement Parts and Seal List

AIR VENT

OUT



Port size Port size 15 (1/2^B) 04 06 20 (3/4^B) 10 25 (1B)

Note) The connection method is flange connection, as indicated below. FGC1: JIS 10KFF flange connection FGC2: JPI300^{Lb}RF flange connection FGC4: JPI600^{Lb}RF flange connection

Element category

Symbol	Element type	Material
В	Sintered metal	Bronze
S	Sintered metal	Stainless steel
Т		Polypropylene
G	Fiber	Glass fiber
Н		Cotton
Р	Paper	Cotton
M	Micromesh	Stainless steel 316/Epoxy
L	iviiciomesn	Stainless steel 316

	11011111111111111111111111111111111111						
Symbol	Nominal filtration accuracy (µm)		Symbol	Nominal filtration accuracy (µm)			
X50	0.5		050	50			
001	1		070	70			
002	2		074	74			
005	5		075	75			
010	10		100	100			
020	20		105	105			
040	40		120	120			

Note) For a comparison with the nominal filtration accuracy according to the element category, refer to the Web Catalog.

Element/Element Seal Material Combinations

	Element seal material		Non- asbestos	PTFE	NBR	FKM
Elem	ent material	seal)	Α	Т	N	٧
В	Bronze			0	0	0
S	Stainless steel		0	0	0	0
Т	Polypropylene	0				
G	Glass fiber	0				
Н	Cotton (Fiber)	0				
P	Cotton (Paper)				0	0
M	Stainless steel 304/Epoxy				0	0
L	Stainless steel 316		0	0	0	0

Applicable Element Specifications

Description	Material	Nominal filtration accuracy (μm)	Size
Cintered metal	Bronze	1, 2, 5, 10, 20, 40	ø65 x L250
Sintered metal	Stainless steel 316	70, 100, 120	ø65 x L500
Paper	Cotton (Phenol)	5, 10, 20	ø65 x L250 ø65 x L500
	Cotton	0.5, 1, 5, 10, 20	
Fiber	Polypropylene	50, 75, 100	ø65 x L250
	Glass fiber	1, 5, 10, 20	
Micromesh	Stainless steel 304	5, 10, 20, 40	
	Stainless steel 316	74, 105	ø65 x L250

 Refer to pages 353 and 354 for the replacement element type.

The numbers correspond with those in the "Replacement Parts and Seal List" of the FGC series in the Web Catalog.

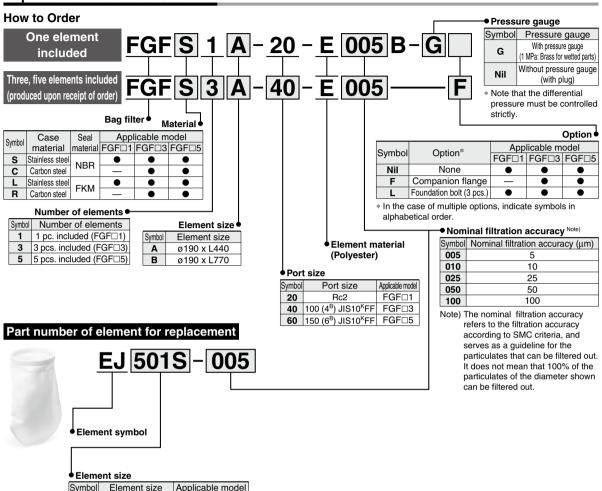


Element mounting figure





Replacement Parts and Seal List



Specifications

501S

601S

ø190 x L440

ø190 x L770

Model		FGF□1A-20	FGF□1B-20	FGF□3A-40 Note 2)	FGF□3B-40 Note 2)	FGF□5A-60 Note 2)	FGF□5B-60 Note 2)	
	Material	Polyester						
	Nominal filtration accuracy		5, 10, 25, 50, 100 μm					
Floment	Element replacement differential pressure			0.1 MF	a Note 1)			
Element	Number of elements	1 element included 3 elements included 5 elements included				s included		
	Size	ø190 x L440	ø190 x L770	ø190 x L440	ø190 x L770	ø190 x L440	ø190 x L770	
Filtration area		1800 cm ²	3400 cm ²	5400 cm ²	10200 cm ²	9000 cm ²	17000 cm ²	

Note 1) Control the element replacement so that the differential pressure does not exceed 0.1 MPa.

Note 2) Please contact SMC for delivery time as the FGF3□ and FGF5□ are produced upon receipt of order.

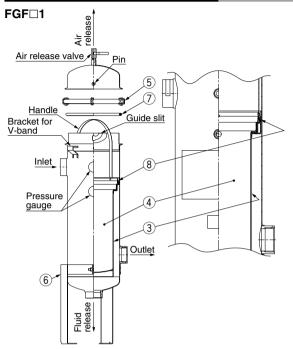
For FGF□□A

For FGF□□B

FGF Series 2



Replacement Parts and Seal List

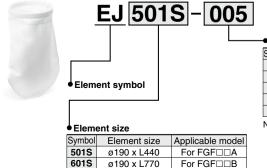


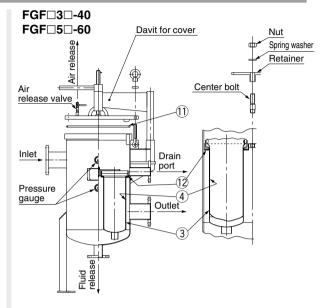
Replacement Parts

Description	Part no.	Material	Qty.	Applicable model Note)
Backet	FGF-BT01	Stainless steel 204	1	FGF□1A
Баѕкеі	FGF-BT02	Stalliless steel 304	1	FGF□1B
Element	EJ501S-□	Dolyootor	1	FGF□1A
Element	EJ601S-□	Polyesiei	1	FGF□1B
V-band	FGF-BA01	Stainless steel	1	FGF□1□
Legs assembly (with bolt, nut, flat washer)	FGF-OP01 (Set)	Carbon steel	1	FGF□1□
0	FGF-KT01	NBR	1	FGFS1□
O-ring	FGF-KT02	FKM	1	FGFL1□
Holder 8 assembly (with O-ring)	FGF-KT03 (Set)	Polypropylene/ NBR	1	FGFS1□
	FGF-KT04 (Set)	Polypropylene/ FKM	1	FGFL1□
	Basket Element V-band Legs assembly (with bolt, nut, flat washer) O-ring Holder assembly	FGF-BT01 FGF-BT02 EJ501S-□ EJ601S-□ EJ601S-□ EJ601S-□ EJ601S-□ EJ601S-□ EJ601S-□ EJ601S-□ EJ601S-□ EJ601S-□ EGF-BA01 EGF-BA01	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Basket

Note) Refer to "How to Order" on page 364 for the \square part of the model number.

Part number of element for replacement





Replacement Parts

Replacement Parts						
No.	Description	Part no.	Material	Qty.	Applicable model Note)	
		BT-3S	Stainless	3	FGF□3A-40	
3	Basket			5	FGF□5A-60	
3	Dasket	BT-4S	Stainless	3	FGF□3B-40	
		D1-40	steel 304	5	FGF□5B-60	
4	Element	Refer to	Polyester	3	FGF□3□-40	
	Element	"How to Order."	1 Olyestei	5	FGF□5□-60	
		AL-26S		1	FGFS3□-40	
	O-ring	AL-200	NBR		FGFC3□-40	
		AL-27S		1	FGFS5□-60	
11					FGFC5□-60	
'''		AL-23S AL-24S	FKM	1	FGFL3□-40	
					FGFR3□-40	
					FGFL5□-60	
					FGFR5□-60	
			NBR	3	FGFS3□-40	
		AL-20S			FGFC3□-40	
		AL-203		5	FGFS5□-60	
12	Gasket				FGFC5□-60	
12	Gasket			3	FGFL3□-40	
		AL-21S	FKM	3	FGFR3□-40	
		AL-213		5	FGFL5□-60	
					FGFR5□-60	

Note) Refer to "How to Order" on page 364 for the □ part of the model number.

→ Nom	● Nominal filtration accuracy Note)					
Symbol	Nominal filtration accuracy (μm)					
005	5					
010	10					
025	25					
050	50					
100	100					

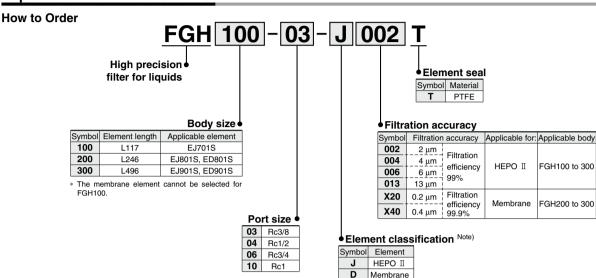
* The numbers correspond with those in the "Replacement Parts and Seal List" of the FGF series in the Web Catalog.

Note) The nominal filtration accuracy refers to the filtration accuracy according to SMC criteria, and serves as a guideline for the particulates that can be filtered out. It does not mean that 100% of the particulates of the diameter shown can be filtered out.



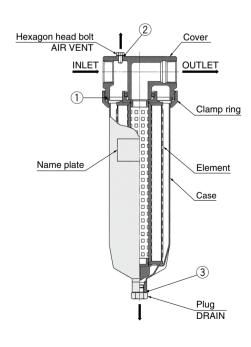
FGH Series 1





Specifications

Model	FGH100	FGH200	FGH300
Number of built-in elements (element length) (mm)	1 (125)	1 (250)	1 (500)



Replacement Parts/Part Nos.

Note) Refer to the **Web Catalog** for details about specifications, models, dimensions, etc.

regarding the elements.

	No.	Description	Model			
			FGH100	FGH200	FGH300	
	1	Gasket	AL-58S#1			
	2	Seal	AL-43S			
	3	Seal	AL-53S			

* Use each one of the above parts for each filter unit.

* Use a commercially available belt wrench etc. for mounting and removing clamp rings.

 Refer to page 367 for the replacement element type. Rotary Actuators Air Grippers

Modular F.R.L. Pressure Control Equipment

Air Preparation Equipment

ment In

Replace Procedu

Rotary Actuators Air Grippers

odular F.K.L. essure Control Equipment

Air Preparation Equipment Industrial Filters



^{*} The numbers correspond with those in the "Replacement Parts and Seal List" of the FGH series in the **Web Catalog**.

High Precision Filter for Liquids

FGH Series 2

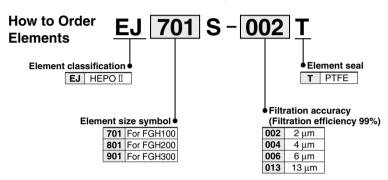


HEPO II Element for FGH Series **EJ** Series



Model		EJ□S-002	EJ□S-004	EJ□S-006	EJ□S-013		
Filtration accuracy(F	iltration	efficiency 99%)	2	4	6	13	
	£	117 mm	1890	2310	2090	2490	
Filtration area (cm ²)	ength	246 mm	4250	5200	4700	5600	
,	ב	496 mm	8500	10400	9400	11200	
Heat resistant to	Heat resistant temperature (°C)		80				
	Filter	media	Polyester				
Material	Material Reinforcement material Others		Polypropylene				
			Polypropylene				
Pressure resistance		0.5 MPa at 20°C, 0.125 MPa at 80°C					

Note) See "How to Order" below for items represented by \Box .

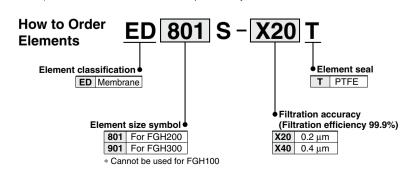


Membrane Element for FGH Series **ED** Series

Specifications

Model		ED□S-X20	ED□S-X40
Filtration accuracy(Filtration efficiency 99.9%) Note 1)		0.2	0.4
≨ 247 mm		4,000	6,200
E	495 mm	8,000	12,400
Heat resistant temperature (°C)		80	
Material Filter media Reinforcement material Others		Polyether sulfone	Cellulose acetate & polyester
		Polypropylene	Polyester
		Polypropylene	Polypropylene
tance		0.5 MPa at 20°C, 0.125 MPa at 80°C	
Resistivity recovery Note 2)		60 min at 10 L/m	_
Others		100 L/4000 cm ² Pure water cleaning	_
	emper Filter Reinford	tion efficiency 99.9%) Note 1) 495 mm emperature (°C) Filter media Reinforcement material Others tance	10.2 10.2

Note 1) Filtration accuracy: tested with ultrapure water, flow rate at $\Delta P = 0.01$ MPa Note 2) Resistivity recovery: time taken to recover to 18 M Ω -cm with ultrapure water Note 3) See "How to Order" below for items represented by \Box .







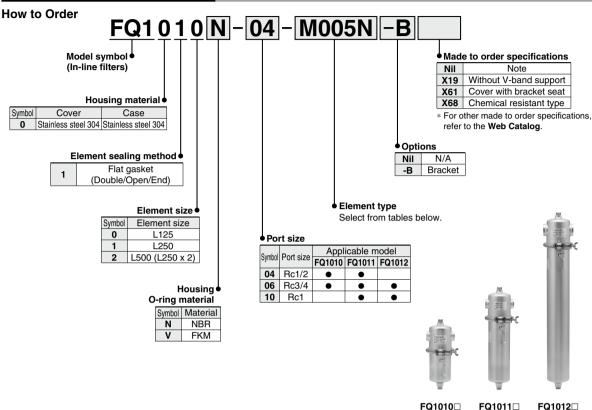
FQ1 Series 1







Replacement Parts and Seal List



Specifications

Model	FQ1010	FQ1011	FQ1012
Number of built-in elements (L: Element length in m	n) 1 (L 125)	1 (L 250)	2 (L 250 x 2)

Element

1. Fiber element (P.P.)

Dimensions	Element symbol	Nominal filtration accuracy (µm)	Part no.		
	TX50	0.5	EHM10A		
	T001	1	EHM39R10AY		
~05	T005	5	EHM23R10AY		
ø65 x	T010	10	EHM19R10AY		
L250	T020	20	EHM15R10A		
L230	T050	50	EHM11R10A		
	T075	75	EHM10R10A		
	T100	100	EHM8R10A		

2. Fiber element (Cotton)

Dimensions	Element symbol	Nominal filtration accuracy (µm)	Part no.
	HX50	0.5	EH10G
	H001	1	EH39R10GV
~05	H005	5	EH23R10GV
ø65 x	H010	10	EH19R10GV
L250	H020	20	EH15R10G
L230	H050	50	EH11R10G
	H075	75	EH10R10G
	H100	100	EH8R10G

3. Micromesh element (Stainless steel 304) Bonding material: Epoxy resin

Dime	ensions	symbol	accuracy (µm)	Part no.
		M005□	5	EM100-005
1_	٥-	M010□	10	EM100-010
	65 x	M020□	20	EM100-020□
	x 250	$M040\square$	40	EM100-040
	LZOU	M074□	74	EM100-074
		M105□	105	EM100-105
	ø65 x	$M005\square$	5	EM200-005□X4
_		$M010\square$	10	EM200-010□X4
		$M020\square$	20	EM200-020□X4
	25	M040□	40	EM200-040□X4
-	20	M074□	74	EM200-074□X4
		M105□	105	EM200-105□X4

Note) Specify the seal material in place of "□" (N for NBR or V for FKM).

4. Micromesh element (Stainless steel 316)

Dimensions	Element symbol	Nominal filtration accuracy (µm)	Part no.
	L005□	5	EM500-005□
ø65	L010□	10	EM500-010□
x	L020□	20	EM500-020□
L250	L040□	40	EM500-040□
	L074□	74	EM500-074□
	L105□	105	EM500-105□
	L005□	5	EM600-005□X4
ø65	L010□	10	EM600-010□X4
X X	L020□	20	EM600-020□X4
L125	L040□	40	EM600-040□X4
	L074□	74	EM600-074□X4
	L105□	105	EM600-105□X4

Note) Specify the seal material in place of "□" (N for NBR or V for FKM).

Actuators

Rotary Actuators Air Grippers

Modular F.R.L. Pressure Control Equipment

Air Preparation Equipment

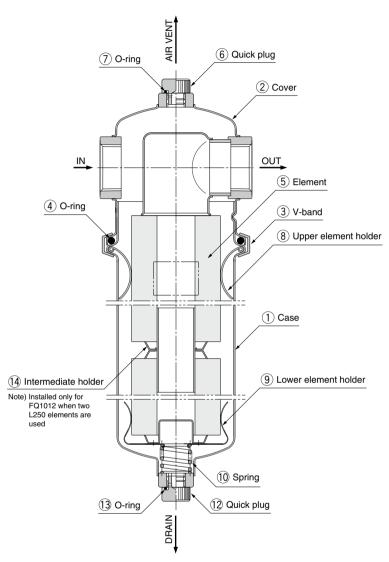


FQ1 Series 2





Replacement Parts and Seal List



Replacement Parts

Description	Part number	Material	Applicable model	Part no. (Set contents)	Note
'	FQ1-CA001N		FQ1010N	· ·	El
	FQ1-CA001V	Stainless steel 304	FQ1010V		Element size: L125
0	FQ1-CA002N	Note) O-ring	FQ1011N	(1), (8), (9), (0), (2), (3): 1 pc. each	Flament - i 1 050
Case assembly	FQ1-CA002V	material N: NBR	FQ1011V	Note) Only the FQ1-CA003□ includes ⁽¹⁾ intermediate holder in the set.	Element size: L250
	FQ1-CA003N	V: FKM	FQ1012N	intermediate noider in the Set.	Element size: L500
	FQ1-CA003V	V.1100	FQ1012V		(L250 x 2)
V-band for replacement	FQ-BA001	Stainless steel 304	FQ1 series	3	
O min m lait	FQ-KT005N	NBR	FQ101□N		4: OR NBR-70-1 P85 7, 13: OR NBR-70-1 P11
O-ring kit	FQ-KT005V	FKM	FQ101□V	4, ⑦, ⑬: 1 pc. each	4: OR FKM-70 P85 7, 13: OR FKM-70 P11
Quick plug	AG-9S	Stainless steel 303	FQ1 series	6, 12	
Upper element holder	L-131S	Stainless steel 304	FQ1 series	8	
Lower element holder	L-135S	Stainless steel 304	FQ1 series	9, 10	
Intermediate holder	FQ-OP001	Stainless steel 304	FQ1 series	(4)	
	BP-15S		FQ101□□-04		For port size Rc 1/2
Bracket	BP-14S	SPC	FQ101□□-06		For port size Rc 3/4
	BP-13S		FQ101□□-10		For port size Rc 1



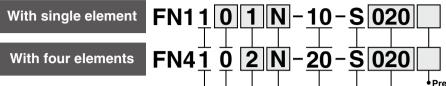
FN1/FN4 Series 1





Replacement Parts and Seal List





Housing material

Symbol Housing material Stainless steel 304

Element type Note)

Sym	bol	Element type	Applicable model
0		Cylindrical type (5 μ m, 20 μ m)	FN1, FN4
1		Step type (5 μm)	FN1

Note) Refer to the Web Catalog for detailed element

Element length

Symbol	Element length	Applicable model
1	L250 mm	FN1
2	L500 mm	FN1, FN4

Seal material					
Symbol	Seal material				
N	NBR				
V	FKM				

Pressure gauge

Symbol	Pressure gauge			
Nil	None (With plug)			
G Note 1)	With pressure gauge Note 2) (Wetted part: Brass)			

Note 1) Contact SMC for the pressure gauge specification for stainless steel wetted parts.

Note 2) The FN4 series is equipped with two pressure gauges.

Nominal filtration rating

• Eleme	Element material	
Symbol	Element material	005
S	Stainless steel 304	020

	Nominal filtration rating
005	5 μm (Cylindrical type, Step type)
020	20 μm (Cylindrical type)

Port size

Symbol	Port size	Applicable model
10	Rc1	FN1
20	Rc2	FN4

Specifications

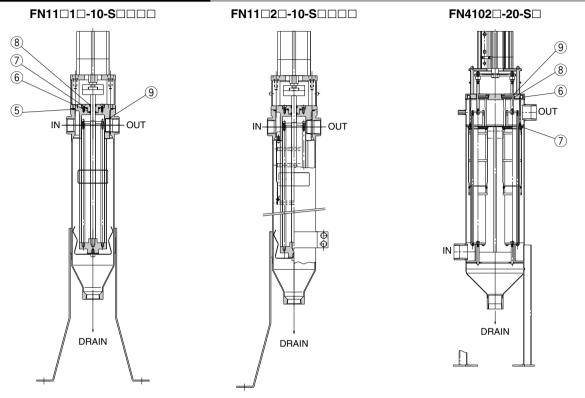
	Model	FN1101	FN1111	FN1102	FN1112	FN4102
E	lement dimension	ø65 x 250L ø65 x 500L				
—	Material	Stainless steel 304				
ement	Construction	Cylindrical type	Step type	Cylindrical type	Step type	Cylindrical type
		5 μm, 20 μm	5 μm	5 μm, 20 μm	5 μm	5 μm, 20 μm
ш	Differential pressure proof	0.6 MPa				

FN1/FN4 Series 2





Replacement Parts and Seal List



^{*} The numbers correspond with those in the "Replacement Parts and Seal List" of the FN1/FN4 series in the Web Catalog.

Replacement Parts

No.	Description	Qty.	Material
5	O-ring	1	
6	Penta seal	1	NBR
7	O-ring	1	or
8	Scraper	1	FPM
9	O-ring	1	

Replacement Parts: Seal Kit

Model	Part no.	Material	Note
FN11□□N	KT-FN11N	NBR	Items (5) through (9) from
FN11□□V	KT-FN11V	FPM	the above chart, 1 pc. each

Replacement Element

Model	Part no.	Qty.	Note
	END100-005	1	5 μm, Cylindrical type
FN11□1□	END100-020	1	20 μm, Cylindrical type
	END110-005	1	5 μm, Step type
	END200-005	1	5 μm, Cylindrical type
FN11□2□	END200-020	1	20 μm, Cylindrical type
	END210-005	1	5 μm, Step type

Replacement Parts

No.	Description	Qty.	Material
6	O-ring	1	
7	O-ring	1	NBR
8	Penta seal	1	or FPM
9	Scraper	1	

Replacement Parts: Seal Kit

Model	Part no.	Material	Note
FN4102N	KT-FN41N	NBR	Items 6 through 9 from
FN4102V	KT-FN41V	FPM	the above chart, 1 pc. each

Replacement Element

Model Part no.		Qty.	Note
EN14400	END400-005	1	5 μm, Cylindrical type
FN4102□	END400-020	1	20 μm, Cylindrical type



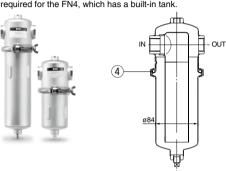
FN1/FN4 Series 3

Options (Sold separately)

Reservoir Tank: FNR Series

This tank is used to store a sufficient amount of fluid for back-flushing (For the FN1 series).

* It is not required for the FN4, which has a built-in tank



low	to Or	^{der} F	NR10	1	1	<u>10</u>	
			Size			Port si	ze
	Symbol	Capacity	Applicable model			Symbol	Port size
	0	1.1 L	FN11□1			10	Rc1
	1	1.8 L	FN11□2				
				•	Seal m	aterial	
					Symbol	Material	
					N	NBR	
				[٧	FKM	

Replacement Parts

No.	Description	Material	Qty.	Note
4	O-ring	NBR	1	OR NBR-70-1 P85*
4		FKM	1	OR FKM-70 P85*

^{*} When ordering an O-ring, order the standard product shown in the note.

Specifications

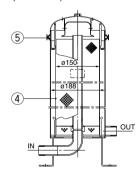
Model		FNR100N-10	FNR100V-10	FNR101N-10	FNR101V-10
Tank capacity		1.1 L		1.8 L	
Port size		Rc1			
Material	Case & Cover	Stainless steel 304			
Material	O-ring	NBR	FKM	NBR	FKM
Weight		1.5 kg		1.9 kg	
Applicable filter		FN11□1□ (Element L 250)		FN11□2□ (Element L 500)	

Dust recovery filter (Produced upon receipt of order)

This filter is for recovering dust from fluid after element back-flushing.

It enables the re-use of the element (Gold mesh).





How to Order

FND100 N-10-M149 X0

Seal material Symbol Material N NBR FKM

> Port size Symbol Port size 10 R1

	 Nominal filtration rating 		
	Symbol	Nominal filtration rating	
	149	149 μm	
• Eleme			
Symbol	Type		

Gold mesh

Replacement Parts

	No.	Description	Part no.	Material	Qty.
	4	Element	EZH710AS-149	Stainless steel 304	1
	5	O-ring	FGE-KT001	NBR	1
	3	O-ring	FGE-KT002	FKM	1

Specifications

-				
	Model	FND100N-10-M149X0	FND100V-10-M149X0	
Port size		R1		
	Case & Cover	Stainless steel 304		
Material	O-ring	NBR	FKM	
	Element	Stainless steel 304		
Element nominal filtration rating		149 μm		
Weight		7.5 kg		

Note) Produced upon receipt of order



Rotary Actuators Air Grippers

Modular F.R.L

Air Preparation Equipment