

Bag Filter FGF Series

RoHS



How to Order

One element included

FGF S 1 A - 20 - E 005 B - G

Three, five elements included (Made to Order)

FGF S 3 A - 40 - E 005

Pressure gauge

Symbol	Pressure gauge
G	With pressure gauge (1 MPa: Brass for wetted parts)
Nil	Without pressure gauge (with plug)

* Note that the differential pressure must be controlled strictly.

Bag filter

Material

Symbol	Vessel material	Seal material	Applicable model
S	Stainless steel	NBR	FGF□1 FGF□3 FGF□5
C	Carbon steel	—	—
L	Stainless steel	FKM	—
R	Carbon steel	—	—

Number of elements

Symbol	Number of elements
1	1 pc included (FGF□1)
3	3 pcs included (FGF□3)
5	5 pcs included (FGF□5)

Element size

Symbol	Element size
A	ø190 x L440
B	ø190 x L770

Element material (Polyester)

Symbol	Port size	Applicable model
20	Rc2	FGF□1
40	100(4 ^B)JIS10 ^K FF	FGF□3
60	150(6 ^B)JIS10 ^K FF	FGF□5

Port size

Option

Symbol	Option*	Applicable model
Nil	None	FGF□1 FGF□3 FGF□5
F	Companion flange	—
L	Foundation bolt (3 pcs)	—

* In the case of multiple options, indicate symbols in alphabetical order.

Nominal filtration accuracy (Note)

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

Note) 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.

Part number of element for replacement



EJ 501S - 005

Element symbol

Element size

Symbol	Element size	Applicable model
501S	ø190 x L440	For FGF□□A
601S	ø190 x L770	For FGF□□B



Made to Order

(For details, refer to pages 1174 to 1178.)

Specifications

Model	FGF□1A-20	FGF□1B-20	FGF□3A-40 (Note 7)	FGF□3B-40 (Note 7)	FGF□5A-60 (Note 7)	FGF□5B-60 (Note 7)
Common	Operating pressure					
	Max. 0.5 MPa					
	Operating temperature					
	Max. 80°C (For with pressure gauge: 60°C or less)					
Vessel	Maximum flow rate (Note 1)					
	Approx. 400 L/min					
	Applicable fluid (Note 2)					
	Water-soluble coolant, Weak alkali-based cleaning fluid, Industrial water (Vessel material: Stainless steel) Oil-based coolant, Cutting oil (Vessel material: Carbon steel)					
Element	Material	Cover	Stainless steel 304		[FGFS/L] Stainless steel 304 (Note 6)	
		Case	Carbon steel		[FGFC/R] Carbon steel	
		Legs	Carbon steel			
		Seal	NBR or FKM (Note 2)			
	Port size		Rc2			
	Internal volume		23 L	35 L	104 L	156 L
	Weight		13 kg	16 kg	170 kg	190 kg
	Pressure gauge (Note 4)		1 MPa: Brass for wetted parts			
	Air release valve		1/4" Ball valve (Brass)			
	Accessories		Part No.: AK-1S			
Element	Material		Polyester			
	Nominal filtration accuracy		5, 10, 25, 50, 100 μm			
	Element replacement differential pressure		0.1 MPa (Note 5)			
	Number of elements		1 element included		3 elements included	
	Size		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

Note 1) Conditions: Fluid = Water, Pressure drop 7 kPa, Nominal filtration accuracy 100 μm
Note 2) Confirm the conformity of the fluid to be used.

Note 3) Surface treatment No. 2D* applies to the external surface of the vessel. (Scratches, scrapes, blotches and uneven color may be present as long as they do not interfere with function or performance.)
* The symbol refers to surface finishing of JIS G 4305 cold rolled stainless steel sheet.

Note 4) For the FGF□1 series, this indicates cases where the "with pressure gauge" option has been selected.

Note 5) Control the element replacement so that the differential pressure does not exceed 0.1 MPa.

Note 6) Parts other than the wetted parts are made of carbon steel and painted (silver).
Note 7) Please contact SMC for delivery time as the FGF□3 and FGF□5 are produced upon receipt of order.