

Sintered metal fiber **SF series** cartridge

The SF series cartridges are manufactured with sintered metal micro-fibers, uniformly distributed to create a 3D filtering structure.

In order to offer a superior mechanical strength and a better drainability, the filter media is joined using an additional sintering process with one or two wire meshes.

In accordance with the specific application, different filter media configurations are available:

1. Mono layer for not critical application: e.g. steam.
2. Double layer for surface filtration: e.g. catalyst recovery.
3. Multi layer for depth filtration: e.g. high viscosity fluids, gel separation, high operating ?P.

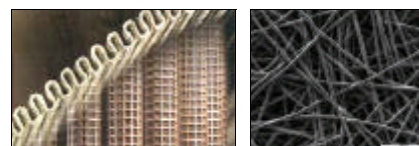
In order to offer the highest quality product, ASCO Filtri selects for its SF series cartridges the Bekipor® filter media manufactured from Bekaert NV, world leader in sintered metal fibers production.

The SF series cartridges are specifically designed for viscous or corrosive fluids, or those with high viscosity.



CHARACTERISTICS

- Absolute rated filtration
- 3 times greater dirt holding capacity than conventional metal cartridges
- Double the porosity and permeability than sintered metal powder cartridges
- 4 times higher flow rate than conventional metal cartridges
- No media migration or fiber release
- Excellent mechanical strength
- Reclothing design available



MAIN APPLICATIONS

High temperature fluids	High differential pressure
High viscosity fluids	Corrosive liquids and gases
Toxic or hazardous fluids	Cryogenic fluids
Hydraulic oil	Electronic grade liquids & gases
Natural or process gases	Precious particulate recovery
Process steam	Sterilization steam



FILTRATION RATING				
MEDIA	LIQUID		GAS	
	90,0%	99,99%	90,0%	99,99%
03	1 µm	3 µm	0,3 µm	1 µm
05	3 µm	5 µm	0,8 µm	2 µm
10	5 µm	10 µm	1 µm	3 µm
20	10 µm	20 µm	3 µm	5 µm
30	20 µm	30 µm	5 µm	10 µm
40	30 µm	40 µm	10 µm	15 µm
60	40 µm	60 µm	15 µm	20 µm
75	50 µm	75 µm	20 µm	30 µm

DIMENSIONS [mm]									
SIZE	OD	ID	Length	m ²	SIZE	OD	ID	Length	m ²
10"	68	26	250	0,13	A1	267	223	550	1,270
20"	68	26	500	0,26	C1	240	194	550	0,847
30"	68	26	750	0,39	B1	178	134	490	0,590
40"	68	26	1000	0,52	H1	143	106	490	0,590
					D1	135	92	490	0,590
					F1	105	65	490	0,590

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PRODUCT SPECIFICATION

Filtration ratings

Liquids: 3, 5, 10, 20, 30, 40, 60, 75 µm absolute

Gas: 1, 2, 3, 5, 10, 15, 20, 30 µm absolute

Upon request also HEPA gas filtration version are available up to 99,997% DOP efficiency.

Max differential pressure

“Crimped” arrangement: 8 bar @ 25 °C

“Standard” welded arrangement: 8 bar @ 25 °C

“Heavy” welded arrangement: 15 bar @ 25 °C

“Polymer” arrangement: 103 bar @ 25 °C

Max operating temperature

316L SS: 360 °C (standard media)

Inconel® 601: 560 °C

Hastelloy® (Alloy HR): 600 °C

Upon specific request also Fecralloy is available for use up to 1000 °C with presence of sulphur.

Corrosion resistance

316L SS: Not suitable with Cl⁻ Br⁻ F⁻

Inconel® 601: Not suitable with HCl, HF, H₂SO₄

Hastelloy® (Alloy HR): Suitable for H₂SO₄

Construction materials

Filter media: Bekipor® 316L SS, Inconel® 601, Alloy HR sintered fibers

End & side seam: Crimping

Micro plasma welding

Gaskets:

Buna-n, EPDM, Silicone, Viton, Natural rubber, PTFE, FEP encapsulated, KlingerSil®

Bekipor® is a registered trademark of Bekaert N.V.

Inconel® 601 is a trademark of INCO.

Fecralloy is a trademark of UKAEA.

ORDERING INFORMATION

SF	H	P	05	-	30	S	0	V	0001
ARRANGEMENT	TYPE	FILTRATION RATING [1]	SIZE [2]	HARDWARE MATERIAL	END CAPS	GASKET	INTERNAL CODE		
G Crimped	P Pleated	03 3 µm	10 10"	W 304 SS	0 DOE	N Buna-n			
L Standard	C Wrap-around	05 5 µm	20 20"	S 316L SS	3 SOE - OR 222/FLAT END	E EPDM			
H Heavy		10 10 µm	30 30"	I Inconel	6 SOE - OR 226/FLAT END	R Natural rubber			
P Polymer		20 20 µm	40 40"	H Hastelloy	7 SOE - OR 226/FIN END	S Silicone			
		30 30 µm	A1 -		8 SOE - OR 222/FIN END	V Viton			
		40 40 µm	B1 -		9 SOE - OR 225/FIN END	T PTFE [3]			
		60 60 µm	C1 -		S SOE SPECIALE	F FEP			
		75 75 µm	D1 -		T THREADED	K KlingerSil® [3]			
			H1 -		F FLANGED				
			F1 -						

1] Absolute filtration rating refers to liquid filtration.

2] Other sizes upon request (tailor-made design).

3] Available only with DOE and SOE Special configuration.



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