

SF ser. Stainless steel sintered wire mesh filter cartridge

The SF series cartridges are manufactured with sintered wire mesh panels, 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, K-Flow selects for its SF series cartridges the world leader in sintered metal wire mesh 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 fluid
Hydraulic oil	Electronic grade liquids & gases
Natural or process gases	Precious particulate recovery
Process steam	Sterilization steam



Filtration Rating					Dimension				
Media	Liquid		Gas		Size	OD	ID	Length	M ²
Grade	90.0%	99.9%	90.0%	99.9%	10"	68	26	250	0,13
03	1 μm	3 μm	0.3 μm	1 μm	20"	68	26	500	0,26
05	3 μm	5 μm	0.8 μm	2 μm	30"	68	26	750	0,39
10	5 μm	10 μm	1 μm	3 μm	40"	68	26	1000	0,52
20	10 μm	20 μm	3 μm	5 μm	A1	267	223	550	1,270
30	20 μm	30 μm	5 μm	10 μm	C1	240	194	550	0,847
40	30 μm	40 μm	10 μm	15 μm	B1	178	134	490	0,590
60	40 μm	60 μm	15 μm	20 μm	H1	143	106	490	0,590
75	50 μm	75 μm	20 μm	30 μm	D1	135	92	490	0,590
					F1	105	65	490	0,590

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Product Specification

Filter ratings

Liquids : 3,5,10,20,30,40,60,75µm absolute
 Gas: 1,2,3,5,10,15,20,30µm absolute
 Upon request also HEPA gas filtration version are available up to 99.997% DOP efficiency

Max differential pressure

"Crimped" arrangement: 5 bar @ 25°C
 "Standard" welded arrangement: 8 bar @ 25°C
 "Heavy" welded arrangement: 15 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: 304 SS , 316L SS, Inconel, Hastelloy , Monel , Alloy 20 , etc

End & side seam: Micro plasma welding

Gaskets: Buna-n, EPDM, Silicone, Viton, Natural rubber, PTFE, FEP encapsulated .

SF	30	10	C	V	6	O
	Length	Filtration Rating	Construction	Seal	Element Material	End Caps
	10= 10"	03 =3µm	Pleated =P	N= Buna-n	S =304SS	D= DOE
	20 =20"	05 =5µm	Cylindrical=C	E =EPDM	6 =316L SS	3 =SOE-OR 222/Flat End
	30 =30"	10 =10µm		R =Natural rubber	I =Inconel	6 =SOE-OR 226/Flat End
	40 =40"	20 =20µm		S =Silicone	H =Hastelloy	7= SOE-OR226/Fin End
	A1 -	30 =30µm		V= Viton		8 =SOE-OR 222/Fin End
	B1 -	40 =40µm		T =PTFE (3)		9 =SOE-OR225/Fin End
	C1 -	60 =60µm		F =FEP		S =SOE Speciale
	D1 -			K		T =Threaded
	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.