

PSSF Stainless Steel Pleated Felt Filter Cartridge

Cobetter PSSF Stainless Steel Pleated Felt Filter Cartridges constructed with stainless steel sintered felt and shaped during the pleating process. These filters have a large filtration area.

The stainless steel sintered felt is made from stainless steel fiber, which is then sintered under high temperatures to form the porous depth filtration material.

PSSF Filter Cartridges features include a graded pore size from coarse upstream to fine downstream, which results in a higher dirt holding capacity and longer service life.

PSSF II is made of "Bekaert" stainless steel felt and achieves close to absolute retention efficiency.



Features and Benefits

- ALL-Stainless Steel Construction
- Free Particle Release
- High Temperature; Corrosive and Oxidation Resistant
- Porous Depth Filtration Media
- Unique Pleating Technology
- Inside Support Layer
- Outside Protection Net Available
- High Dirt Holding Capacity and Long Service Life

Materials of Construction

Inside Support Layer	304/316 Stainless Steel
Filtration Medium	304/316 Stainless Steel
End Cap	304/316 Stainless Steel
Outside Protection Net(Optional)	Outside protection net recommended when the operating pressure is up to 0.2 MPa

Note: For filters with removal ratings of over 20µm only 316L stainless steel is available

Configurations

Double Open-End (DOE)
Single Open-End (SOE)

Operating Conditions

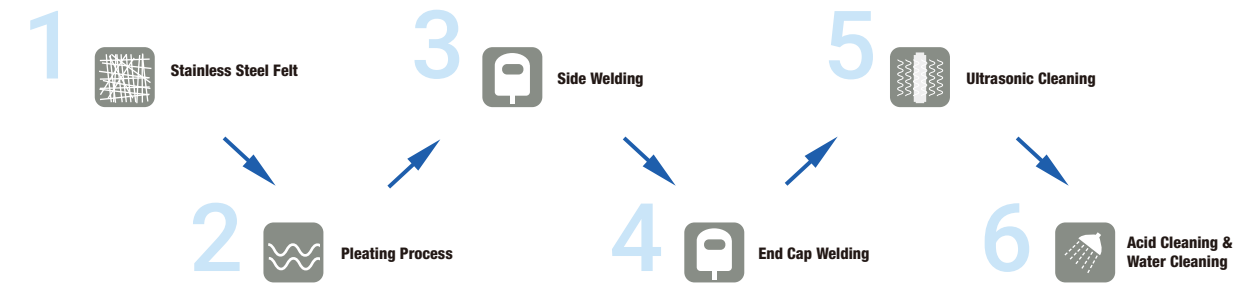
Max. Differential Pressure	5.0bar
Max. Operating Temperature	480°C

Nominal Dimensions^①

Diameters	65mm
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① Additional Diameter Specifications Available Upon Request

Production Process of PSSF Series Powder Sintered Filter Cartridges



Parameters

Code	Removal Ratings(µm)	Removal Ratings(µm)	Pore Efficiency	Dirt Holding Capacity (mg/cm ²)	Average Air Permeability (L/dm ² min) ^②	Flow Rate (m ³ /h) ^③	Length and Area ^④	
							Nominal Length	Filtration Area ^⑤ Domestic Felt Bekaert Felt
1	3.0 ^⑥	0.3	67%	7.90	10	4.02	5 in. (127 mm)	0.096m ² 0.075m ²
2	5.0	1.0	80%	7.70	34	5.54	10 in. (254 mm)	0.19m ² 0.15m ²
3	7.0	1.5	74%	6.47	62	5.85	20 in. (508 mm)	0.38m ² 0.30m ²
4	10.0	2.0	78%	7.10	108	6.32	30 in. (762 mm)	0.57m ² 0.45m ²
5	20.0	5.0	82%	11.40	325	9.69	40 in. (1016 mm)	0.76m ² 0.60m ²
6	30.0	7.0	79%	15.40	450	10.35		
7	40.0	10.0	76%	20.60	620	14.54		
8	80.0	20.0	85%	41.97	1510	19.09		

② Testing Performed According to GB/T5453; Testing DP is 200Pa; Testing Medium is Air

③ Testing Liquid Viscosity is 1CPS; Filter Tested with 60mm diameter and 300mm length; Testing Pressure is 1.5 bar

④ Bekaert Filtration Media

Length and Area^④

Nominal Length	Filtration Area ^⑤	
	Domestic Felt	Bekaert Felt
5 in. (127 mm)	0.096m ²	0.075m ²
10 in. (254 mm)	0.19m ²	0.15m ²
20 in. (508 mm)	0.38m ²	0.30m ²
30 in. (762 mm)	0.57m ²	0.45m ²
40 in. (1016 mm)	0.76m ²	0.60m ²

④ Length and Other Sizes Are Customizable

⑤ Tested Filter Diameter is 65mm

Ordering Information

	Removal Ratings	End Cap	Length	Diameter	Seal Material
PSSF	0300	DOE	05	D25	S
	0300=3.0 µm	DOE=Double open end	05=5"	D25=25mm	S=Silicon
	0500=5.0 µm	TC= 222/Flat	10=10"	D30=30mm	E=EPDM
	0700=7.0 µm	SC= 226/Flat	20=20"	D50=50mm	V= Viton
	1000=10 µm	L= Screw	30=30"	D65=65mm	P=PFA/Viton
	2500=25 µm	SF=226/Fin	40=40"	D70=70mm	F= PTFE
	4000=40 µm				
	6000=60 µm				

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