

# PSSF® PLEATED STAINLESS STEEL FELT CARTRIDGES

## IDEAL FOR STEAM FILTRATION OR LIQUID APPLICATIONS WITH HIGH VISCOSITIES

PSSF Stainless Steel Pleated Felt Filter Cartridges are composed of stainless steel sintered felt. These filters have a large filtration area with high flow rates and low pressure drops.

The unique stainless steel sintered felt is made from stainless steel fibers which have been sintered to form a high-porous depth filtration material.

PSSF Filter Cartridges features include a graded pore size from course (upstream) to fine (downstream) fibers, which results in a higher contaminant holding capacity with excellent filtration efficiency and longer service life. These filters are widely used in steam filtration or liquids applications with high viscosities, e.g. sugars and syrups.



FEATURE	BENEFIT
<b>All stainless steel construction</b>	Excellent chemical compatibility High temperature resistance
<b>Sintered specialized alloy construction</b>	High corrosion and oxidation resistance Can be cleaned and reused
<b>Absolute graded pore size rated media</b>	Precision particulate retention ratings

## APPLICATIONS

- Food & Beverage
- Water Treatment
- Bulk Filtration
- Steam
- High Temp Processes
- Viscous Fluids
- Clarification
- High Pressure Processes

## SPECIFICATIONS

<b>Filter media</b>	316L Stainless Steel Sintered Felt
<b>Cage/Support/Core/End Caps</b>	316L Stainless Steel
<b>Seal material</b>	Silicone, EPDM, FKM, E-FKM (FEP/PFA encapsulated FKM), PTFE
<b>Construction method</b>	Welded (no adhesive)
<b>Recommended continuous operating temperature range</b>	-75°C to +200°C Note: Temperature dependant on o-ring compound
<b>Max. differential pressure</b>	Forward Flow: 0.5 MPa (5.0 bar, 73 psi) at 21°C Reverse Flow: 0.2 MPa (2.0 bar, 29 psi) at 21°C
<b>Hot water sterilization</b>	85°C for 30 minutes @ max. differential pressure of 0.2 MPa (2.0 bar, 29 psi)
<b>Cleaning solution</b>	Reverse rinse by pure water/compressed air @ ≤0.2 MPa (2.0 bar, 29 psi); Ultrasonic rinsing (Ultrasonic cleaning is recommended rather than back flush cleaning due to the filter's depth and porous filtration media construction)
<b>Effective filtration area</b>	0.12 m <sup>2</sup> (12.9 ft <sup>2</sup> ) /10 inch

## PARAMETERS

Filter Code	Removal Rating in Liquid (µm)	Removal Rating in Gas (µm)	Porosity	Dirt Holding Capacity (mg/cm <sup>2</sup> )	Average Air Permeability (L/dm <sup>2</sup> min) <sup>1</sup>	Flow Rate <sup>2</sup>
<b>0300</b>	3.0	0.5	70%	7.9	10	0.8 m <sup>3</sup> /h (3.5 gpm)
<b>0500</b>	5.0	1.0	75%	5.0	47	1.3 m <sup>3</sup> /h (5.7 gpm)
<b>0700</b>	7	1.5	76%	6.5	63	1.6 m <sup>3</sup> /h (7.0 gpm)
<b>1000</b>	10	2.0	75%	7.8	105	2.0 m <sup>3</sup> /h (8.8 gpm)
<b>2500</b>	25	16	80%	19.0	355	2.5 m <sup>3</sup> /h (11 gpm)
<b>4000</b>	40	25	-	-	-	-
<b>6000</b>	60	45	-	-	-	-

<sup>1</sup>Testing performed according to GB/T5453; Testing DP is 200 Pa (0.03 psi). Testing medium is air.

<sup>2</sup>Testing liquid viscosity is 1 cP. Filter tested with 60 mm (2.4") diameter and 300 mm (11.8") length; Testing pressure is 1.5 bar (21.8 psi)

## ORDERING INFORMATION

EXAMPLE: **PSSF1000TC30D70E-F** 10 µm, 222/Flat, 30", 70 mm dia., with EPDM seal

### PSSF

**Outer Cage**  
**Blank** = No outer cage  
**W** = With outer cage

**Removal Rating**  
**0300** = 3.0 µm  
**0500** = 5.0 µm  
**0700** = 7.0 µm  
**1000** = 10 µm  
**2500** = 25 µm  
**4000** = 40 µm  
**6000** = 60 µm

**End Cap**  
**DOE** = Double open end  
**TC** = 222/Flat  
**SC** = 226/Flat  
**1M** = 1" MNPT/Flat  
**1F** = 1" FNPT/Flat  
**15M** = 1.5" MNPT/Flat  
**15F** = 1.5" FNPT/Flat

**Nominal Length**  
**05** = 5"  
**10A** = 9.8"  
**10** = 10"  
**19** = 19.5"  
**20** = 20"  
**29** = 29.25"  
**30** = 30"  
**40** = 40"  
 (additional specific lengths are available)

**Diameter**  
**D25** = 25 mm (0.98")  
**D30** = 30 mm (1.18")  
**D50** = 50 mm (1.97")  
**D65** = 65 mm (2.56")  
**D70** = 70 mm (2.76")

**-F**  
**Seal Material**  
**S** = Silicone  
**E** = EPDM  
**V** = FKM  
**P** = E-FKM (FEP/PFA encapsulated FKM)  
**F** = PTFE



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