

PSSC Pleated Stainless Steel Wire Cloth

Cobetter **PSSC**[®] Pleated Stainless Steel Wire Cloth Filter Cartridges are composed of 316 stainless steel wire cloth. The pleated structure provides a large filtration area, which results in longer service life and high flow rates. PSSC Filter Cartridge has superior strength and thermal resistance, which makes it the ideal filter for high pressure and temperature applications.

Features and Benefits

- ALL-Stainless Steel Construction
- Pleated Wire Cloth
- Inside Support Layer
- Outside Protection Net Available
- Homogenous Pore Sizes
- High Temperature; Corrosive and Oxidation Resistant
- High Pressure Back-Flushing Available
- Able to be Cleaned and Reused
- No Fiber Releasing

Materials of Construction(Five Layers)

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

Nominal Dimensions^①

Diameters	65mm
------------------	------

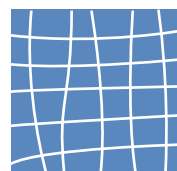
① Additional Diameter Specifications Available Upon Request

Configurations

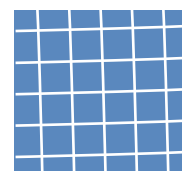
Double Open-End (DOE)
Single Open-End (SOE)

Operating Conditions

Max. Differential Pressure	8.6 bar / 21°C (forward flow) 2.0 bar / 21°C (reverse flow)
Recommended Continuous Operating Temperature Range	-75°C to +200°C Note: Temperature dependant on o-ring compound



A traditional filter mesh may deform under high pressure and temperature, thus affecting the removal ratings.



The Sintered Wire Cloth has a solid internal structure ensuring that the components of the filter will not shift and affect the removal ratings

Trap/Pre-Filtration

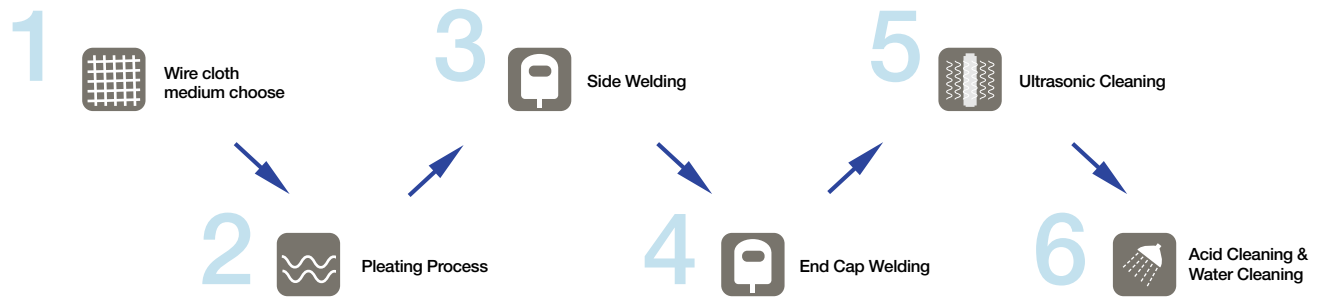
Microbiological Stabilization

Gas Filtration

Additional Filters



Production Process of PSSC Pleated Stainless Steel Wire Cloth Filter Cartridge



Parameters

Code	Liquid Pore Size (µm)	Removal Ratings(µm)	Pore Efficiency	Absolute Removal Rating (µm) ②	Average Air Permeability	Flow Rate (m³/h) ④
1	2.0	0.8	38%	8-9	2.35	1.8
2	5.0	1		12-14	2.42	2.0
3	10	3		16-18	3.00	2.1
4	20	15		28-32	4.50	2.5
5	40	25		58-63	7.10	3.5
6	100	85		125-130	16.20	5.0

- ② Bubble Point Testing
- ③ Tested according to GB/T8786; Differential Pressure of 200Pa (in air)
- ④ Liquid Viscosity of 1 CP-S; diameter of 65mm; length of 10inches; pressure of 1.0bar

Length and Area^⑤

Length	Filtration Area ^⑥
5 in. (127 mm)	0.096m²
10 in. (254 mm)	0.19m²
20 in. (508 mm)	0.38m²
30 in. (762 mm)	0.57m²
40 in. (1016 mm)	0.76m²

- ⑤ Length and Other Sizes Are Customizable
- ⑥ Tested Filter Diameter is 65mm

Ordering Information

PSSC	Removal Ratings	End Cap	Nominal Length	Diameter	Seal Material	-F
	0200 =2.0 µm	DOE =Double open end	05 = 5"	D25 =25mm	S =Silicon	
	0500 =5.0 µm	TC =222/Flat	10 =10"	D30 =30mm	E =EPDM	
	1000 =10 µm	SC =226/Flat	20 =20"	D50 =50mm	V =Viton	
	2000 =20 µm	L =Screw	30 =30"	D65 =65mm	P =PFA/Viton	
	4000 =40 µm		40 =40"	D70 =70mm	F =PTFE	
	100H =100 µm					

Cleaning and Washing

Contaminants	Methods
Metal/rigid particles	Ultrasonic cleaning with frequent vibrations to remove particles High pressure spray prior to reusing
Flocculents (hair/strips/etc.)	high temperature baking, carbonizing, and vaporizing
Colloids	Soaking in a solvent to dissolve colloid