



Pleated SS Filter Cartridges

The PLEATSTEEL product line has been developed for micro filtration applications requiring a cartridge that will tolerate extreme thermal ranges and differential pressures while providing an extended service life.

PLEATSTEEL attains its superior performance due to GPS filter medium, composed of 100% random fiber stainless steel. GPS unique calendaring process compresses the fiber matrix to form specialized filter media, which provides consistently high porosities and large filtration areas. The sintered matrix is then reinforced with woven wire screen to provide the mechanical strength necessary to withstand high differential pressures, and exceptional flow characteristics. To further assure product quality, each cartridge is bubble point integrity tested.

All other PLEATSTEEL components are fabricated from stainless steel, which provide exceptional chemical and thermal resistance. PLEATSTEEL may be cleaned mechanically, for reusing the cartridge if desired.

Typical Advantage

- 100% Bubble Point Integrity Tested
- Stainless Steel Construction
- Superior Chemical Compatibility
- Excellent Mechanical Strength
- Extended On-Stream Life
- High Thermal Tolerance
- Regenerable

Pleated SS Filter Cartridges

- Spargers
- Cryogenics
- Beverage Filtration
- Highly Viscous Fluids
- Corrosive Liquids & Gases
- Super-Heated process Steam
- High Temperature processing

- Recovery of valuable particulate

Pleated SS Filter Cartridges

Materials

- Medium: Stainless steel
- Support layer: stainless steel
- Cartridge Hardware: stainless steel
- Stainless steel Media – Stainless steel random fiber matrix that provides up to four times the service life and flow rate of powdered metal elements.

Removal Ratings

- 5 µm, 10 µm, 20 µm and 40 µm
- Liquid particle retention is typically 98.0% efficient at the stipulated pore size.

Dimensions Standard Cartridge

- Nominal lengths: 10" / 254 mm, 20" / 508 mm, 30" / 762 mm, 40" / 1016 mm
- Outer Diameter: 63 mm
- Inner Diameter: 27 mm

Jumbo Cartridge

- Nominal lengths: 10" / 254 mm, 20" / 508 mm, 30" / 762 mm, 40" / 1016 mm
- Outer Diameter: 116 mm
- Inner Diameter: 27 mm

Operating Conditions

- Maximum Differential Pressure

Forward: 17 bar @ 371⁰C
Reverse: 3.4 bar @371⁰C

- Operating Temperature Range

Maximum: +700⁰F (+371⁰C)
Minimum: -450⁰F (-268⁰C)

Effective Filtration Area

Standard Cartridge

- 1.8 ft² (0.17 m²) per nominal 10 inch (25 cm) cartridge

Jumbo Cartridge

Pleated SS Filter Cartridges

Item Code	Size	Length	Micron	End Cap Configuration
PSS	ST - Standard	L1 – 10"	M1 – 5 Micron	0 – Double Open End
	JU - Jumbo	L2 – 20"	M2 – 10 Micron	6 – Flat Closed End, External 222 "O" Ring type
		L3 – 30"	M3 – 20 Micron	7 - Flat Closed End, External 226 "O" Ring type
		L4 – 40"	M4 – 40 Micron	1- Threaded Type