



SC Filters

Pleated and Cylindrical 304 or 316
Stainless Steel Media



SC cartridge filters are made entirely with 304 or 316 stainless steel media using no adhesives or epoxy. They are available in pleated depth configuration as well as easy-to-clean cylindrical depth media. Pore sizes range from 2 to 840 μm .

The SC cartridges are a general service grade product that removes particles in high temperature and high-pressure systems for liquid and gas filtration. Their stainless-steel construction provides wide chemical compatibility and low extractables. SC filters can be cleaned and reused multiple times.

SC filters are recommended for the filtration of:

- Caustic Fluids
- High Pressure Fluids
- Potable Water
- Viscous Fluids
- Oils
- Air and Gases
- Wastewater
- Steam
- Plating Solutions
- Chemical Solutions
- Corrosive Liquids
- High Temperature Fluids

Critical Process provides unrivaled delivery times, technical consulting before purchasing, and very competitively priced high-performance products. Our comprehensive testing/analysis and validation services support your team whenever they need it. Your process experts partnering with our filtration experts is how we deliver your company's solution right the first time.

Clarification & Prefiltration



CARTRIDGES – Cylindrical

Nominal Dimensions

Length: 5 to 40 in. (12.7 to 101.6 cm)

Outside Diameter: 2.75 in. (7.0 cm)

Inside Diameter: 2.06 in. (2.95 cm)

Flat Gasket OD: 2.25 in. (5.72 cm)

Filtration Area: 0.55 ft² (0.051 m²) per 10 in. cartridge

CARTRIDGES – Pleated

Nominal Dimensions

Length: 5 to 40 in. (12.7 to 101.6 cm)

Outside Diameter: 2.63 in. (6.67 cm)

Inside Diameter: 2.06 in. (2.95 cm)

Flat Gasket OD: 2.25 in. (5.72 cm)

Filtration Area: 1.7 ft² (0.157 m²) per 10 in. cartridge

Maximum Operating Parameters

Operating Temperature (liquid or gas)	500 °F (260 °C)
Forward Differential Pressure	60 psid (4.14 bard)
Reverse Differential Pressure	2 psid (0.14 bard)
Maximum Operating Differential Pressure	35 psid (2.41 bard)

NOTE: For special engineered designs to achieve differential pressures up to 500 psid (34.4 bard) consult Critical Process Filtration.

Sanitization & Sterilization

There are many cleaning protocols designed to clean and extend the life of the SC cartridges. These include steaming and chemical and pressure washing. Ultrasonic cleaning is recommended for pore sizes $\leq 5 \mu\text{m}$ in order to reuse and extend the life of the element.

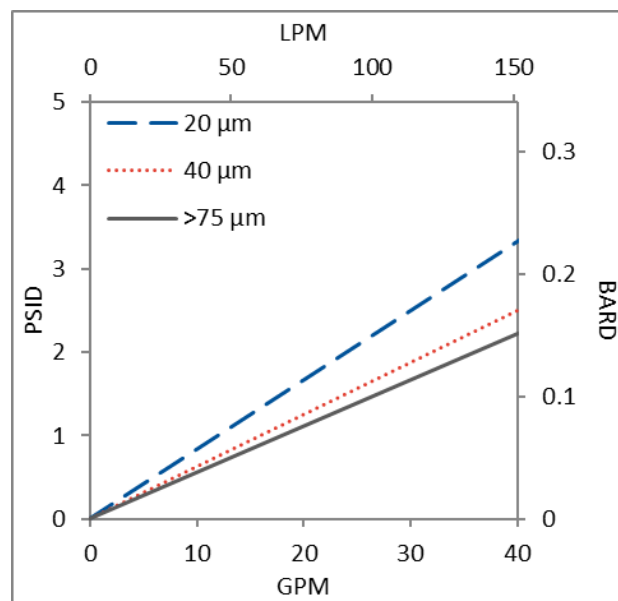
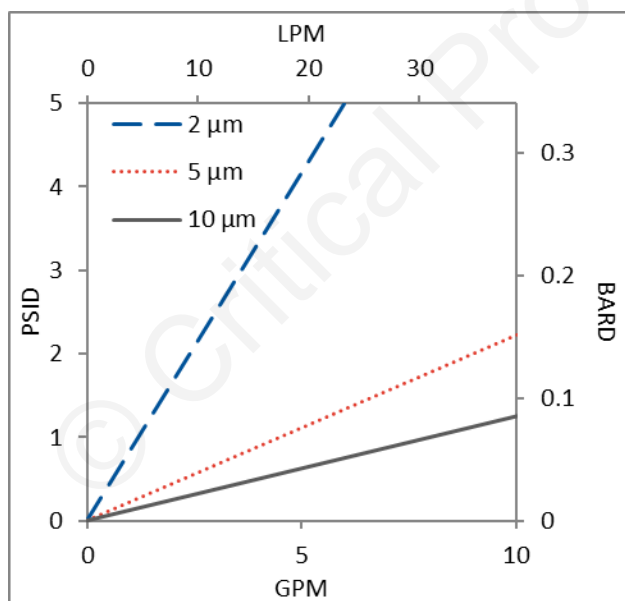
Standard End Configurations and Pleat Protector



Pleat Protectors

Optional pleat protectors prevent accidental denting of the pleated surface. They are made of stainless steel with $\frac{1}{4}$ in. diameter perforations, and held in place by bending tabs at the top and bottom.

Flow Rates for SC Pleated Cartridges



Flow rates shown are for pleated cartridges per 10-inch length. The test fluid is water at ambient temperature.

Flow Rates for SC Cylindrical Cartridges – Please contact Customer Service

SC Filters Ordering Information

All Critical Process filters are configurable to meet customer specifications.
Fill in the corresponding codes in the boxes below to build your Part Number.

To consult with one of our technical team members, request a quote or place an order:
call (603) 880-4420 [contact us here](#).

SC						
Pore Size Code 2-0 = 2 µm 5-0 = 5 µm 10- = 10 µm 20- = 20 µm 40- = 40 µm 75- = 75 µm 999 = 100 µm 120 = 120 µm 150 = 150 µm 190 = 190 µm 230 = 230 µm 280 = 280 µm 370 = 370 µm 540 = 540 µm 840 = 840 µm	Style Code C = Cylindrical P = Pleated	Material Code A = 304 Stainless Steel B = 316 Stainless Steel	Length 05 = 5 in. (12.7 cm) 97 = 9.75 in. (24.8 cm) 98 = 9.875 in. (25.1 cm) 10 = 10 in. (25.4 cm) 19 = 19.5 in. (49.5 cm) 20 = 20 in. (50.8 cm) 29 = 29.25 in. (74.3 cm) 30 = 30 in. (76.2 cm) 40 = 40 in. (101.6 cm)	End Cap Code 0 = Flat Gasket, DOE 5 = 2-222 O-ring/Flat 6 = 2-226 O-ring/Flat 8 = 2-222 O-ring/Spear 9 = 2-226 O-ring/Spear 31 = 1 in. MNPT/Flat 32 = 1 in. FNPT/Flat 33 = 1.5 in. MNPT/Flat 34 = 1.5 in. FNPT/Flat	O-Ring/Gasket Code Grommet Material B = Buna E = EPDM V = Viton (or FKM) T = Fluoropolymer O-Ring Material B = Buna E = EPDM V = Viton (or FKM) S = Silicone T = FEP Encapsulated Viton (or FKM) R = FEP Encapsulated Silicone X = No Gasket or O-ring	Option Code 1 = Pleat Protector 2 = Heavy Duty Core (100 psid)

Housings

CPF offers Model CSH sanitary housings and Model CIH industrial housings in Single-Round (Inline and T-Style) and Multi-Round configurations. Contact us or visit our website for more information.



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