

# 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  $\mu\text{m}$ .

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. (5.23 cm)

Flat Gasket OD: 2.25 in. (5.72 cm)

Filtration Area: 0.55 ft<sup>2</sup> (0.051 m<sup>2</sup>) 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. (5.23 cm)

Flat Gasket OD: 2.25 in. (5.72 cm)

Filtration Area: 1.7 ft<sup>2</sup> (0.157 m<sup>2</sup>) per 10 in. cartridge

## Maximum Operating Parameters

CARTRIDGES	
<b>Operating Temperature (liquid or gas)</b>	500 °F (260 °C)
<b>Forward Differential Pressure</b>	60 psid (4.14 bard)
<b>Reverse Differential Pressure</b>	2 psid (0.14 bard)
<b>Maximum Operating Differential Pressure</b>	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.

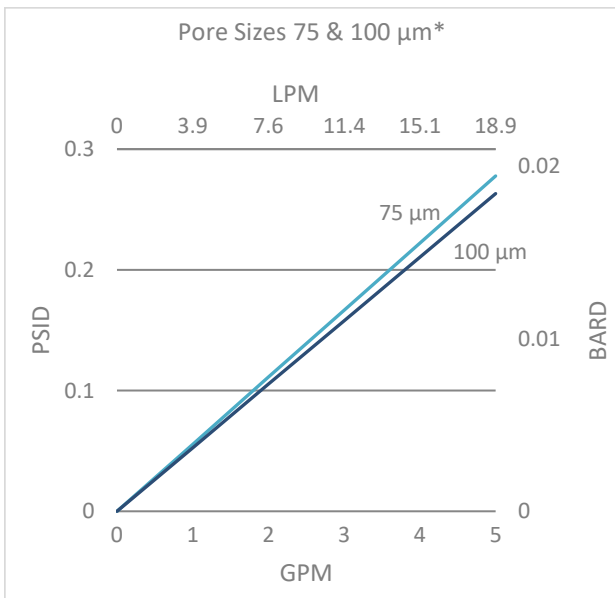
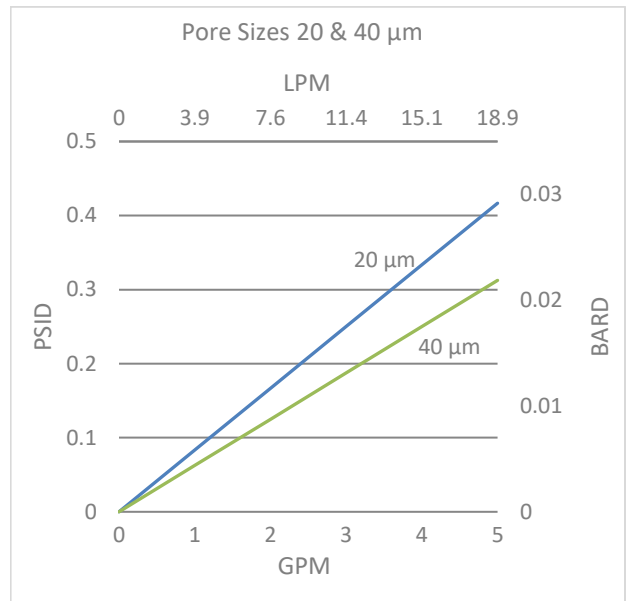
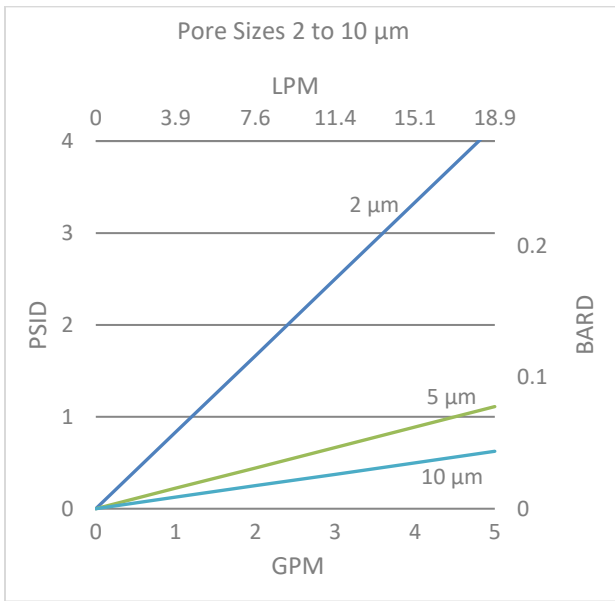
## Standard End Configurations and Pleat Protector



### 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



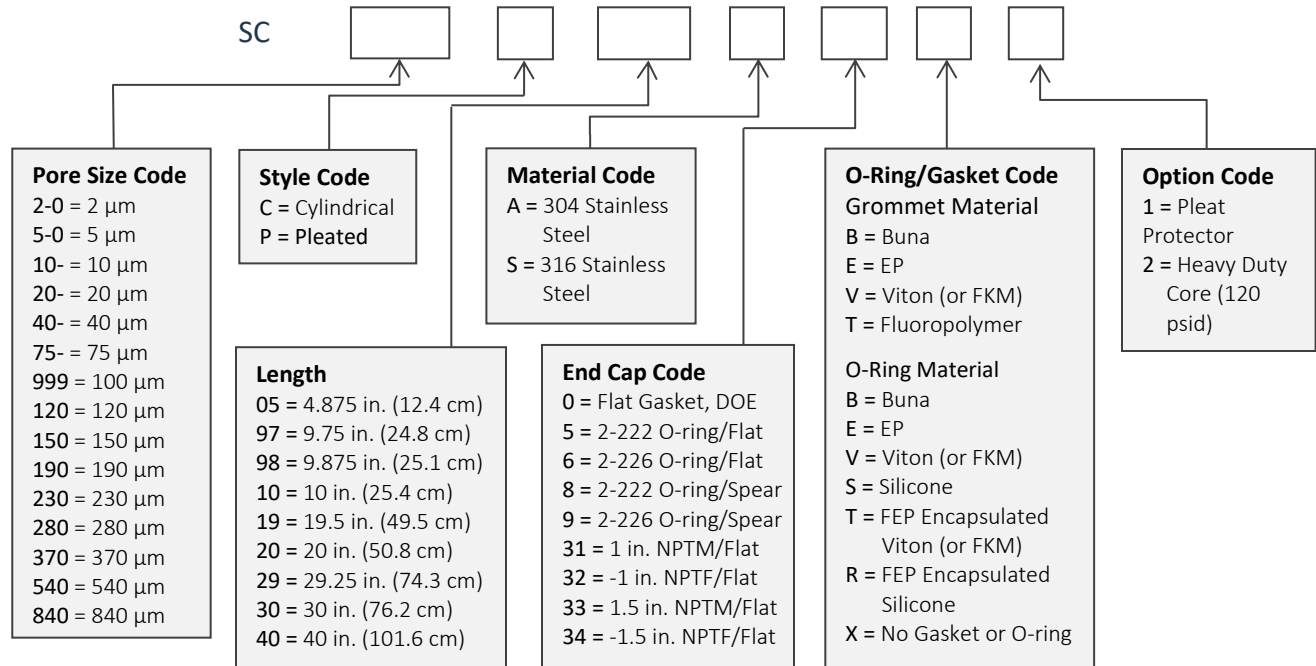
Flow rates shown are for pleated cartridges per 10-inch length. The test fluid is water at ambient temperature.

\*Flow rates for filters with pore size ratings above 100 microns are only slightly higher than that of the 100-micron filter.

## 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) 880-4220 Ext. 106, or send an email to [sales@criticalprocess.com](mailto:sales@criticalprocess.com)



### 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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