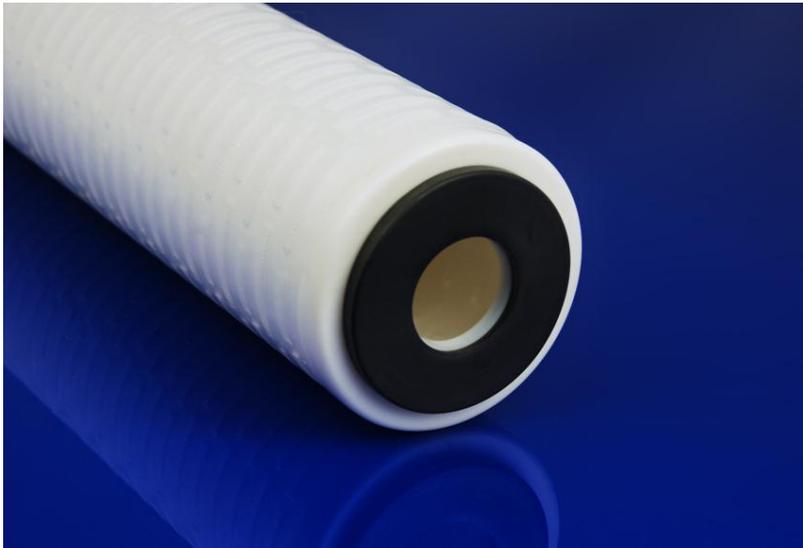


# MS<sup>®</sup> FILTER OF ELECTRONIC INDUSTRY



## AFS-Pure PFA Filters

MS<sup>®</sup>AFS-Pure PFA filters using expanded PTFE membranes and PFA core and cage, will meet all kinds of critical filtration requirement in the most aggressive environments. AFS-Pure filters have great corrosion resistance and durability in highly corrosive acids, bases and organic environment. Ideally suited for corrosive chemicals and gases filtration in the semiconductor industry. Its advanced fluid dynamics design provide enhanced lateral flow across, through and out of the membrane, which allows the high permeability property of the membrane to be fully utilized. And can improve flow rates and extend service life over conventional filters.



### Specification

#### Materials of Construction:

- Filter Medium: PTFE
- Support and drainage: PFA
- Inner support core: PFA
- Outer protection cage: PFA
- End caps: PFA
- O-Rings: Teflon encapsulated Viton

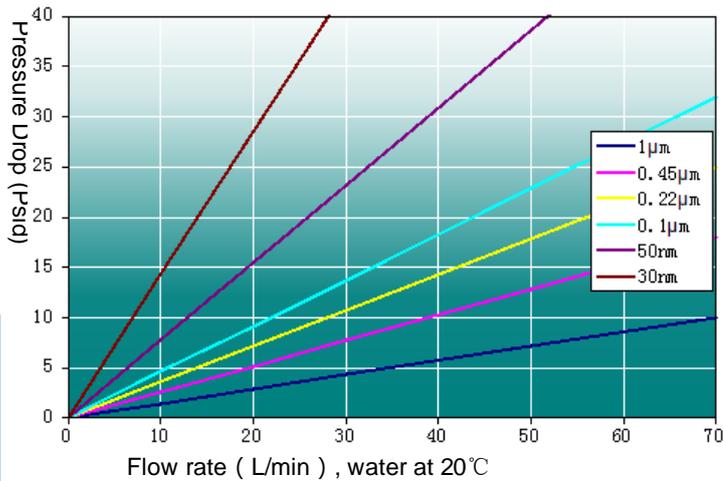
### Feature and Benefit

- Prefilter and Final filter grades, high flow rates and low pressure drop
- All Fluoropolymer construction can resist almost all chemicals, gases and can be used in very high temperature environment
- Special pleat design ensure greater surface area and longer service life
- 100% integrity tested

### Application

- High corrosive acids, such as nitric acid and sulfuric acid
- High temperature chemical liquid
- All kinds of aggressive bases chemicals and gases in the semiconductor industry

## Pressure Drop vs. Liquid Flow Rate



Unit conversion: 1bar=100kPa=14.5psi

Flow rate is for a 25.4cm (10inch) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP)

## Specification

### Recommended Operating Conditions:

- Maximum Temperature: 500°F (260°C);

- Maximum Pressure:

58psi (4bar) @ 230°F (110°C)

### Particle Removal Ratings(Nominal, µm):

0.03, 0.05, 0.1, 0.22, 0.45, 1.0

### Effective Filtration Area:

0.1-1µm	0.03-0.05µm
0.8m <sup>2</sup> (8.6ft <sup>2</sup> )	0.9m <sup>2</sup> (9.7ft <sup>2</sup> )

**Metallic extractables:** < 25µg/device

### Particle shedding cleanliness:

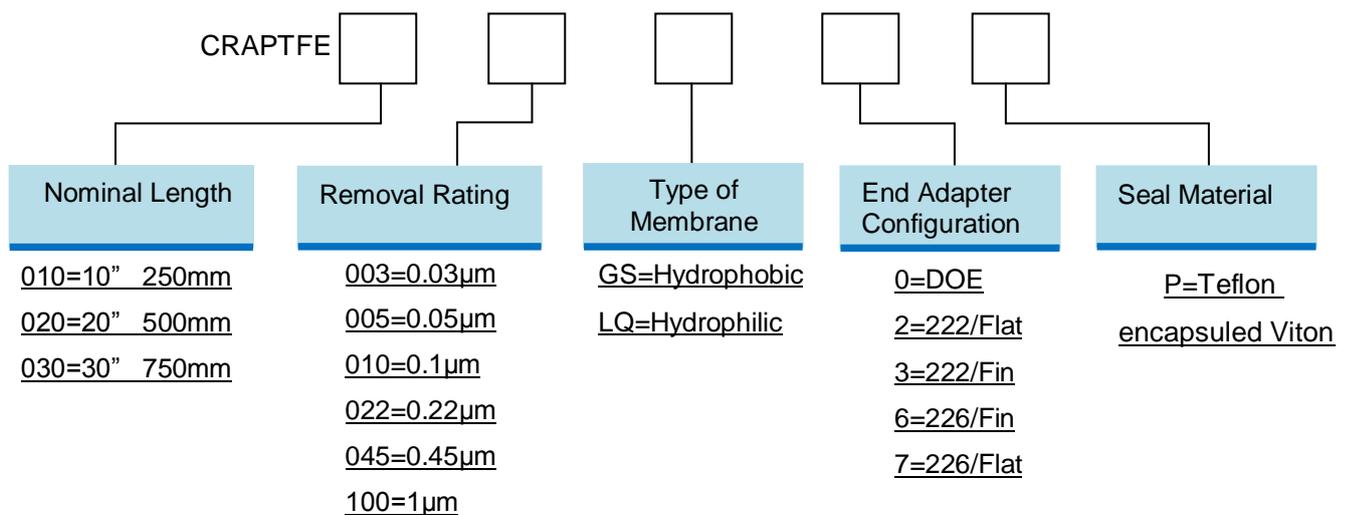
< 15 particles/10ml ≥ 0.2µm @ 5L/min DI water

flow

### TOC recovery:

< 10ppb of feed after 120 L flush @ 1L/min

## Ordering Information



Membrane Solutions

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