

Masterfilter PFA series

The Masterfilter *OptiFluor* PFA series filter cartridges utilizing expanded PTFE membranes and PFA (melt-processible Teflon®) core and cage, meet the most critical filtration requirements in the most aggressive environments. PFA hardware can provide high level filtration in aggressive atmosphere. PFA cartridges remain robust and durable in aggressive acids, bases and organic compounds.

Applications

- Corrosive acids
- All kinds of aggressive bases and solvents
- High temperature applications
- Air and liquid oxidization
- WFI venting
- High temperature fermenter venting (> 100 °C) and aerating
- Strong oxidizing gases (ozone)

Features and Benefits

- All-fluor polymer material of construction
- provides superior resistance in strong chemical processing and pulsing
- Excellent chemical compatibility
- High temperature and pressure capabilities
- High flow rates with low differential pressure
- Narrow pore size distribution ensures the ultimate in retention and flow rate
- Low extractables
- Inline WIT testable

Materials of Construction

- Filter media: Hydrophobic PTFE
- Support layers: PFA
- Inner core: PFA 440H
- Outer cage: PFA 440H
- End caps: PFA 440H
- O-rings: Silicone, EPDM, PTFE encapsulated Viton

Operating Parameters

- Max. operating pressure: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80 °C
- Max. differential pressure forward: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80 °C
- Max. differential pressure reverse: 3.0 bar at 25 °C, 1.0 bar at 80 °C
- Max. operating temperature: 170 °C
- Effective Filtration Area: 0.91 m² 10" module

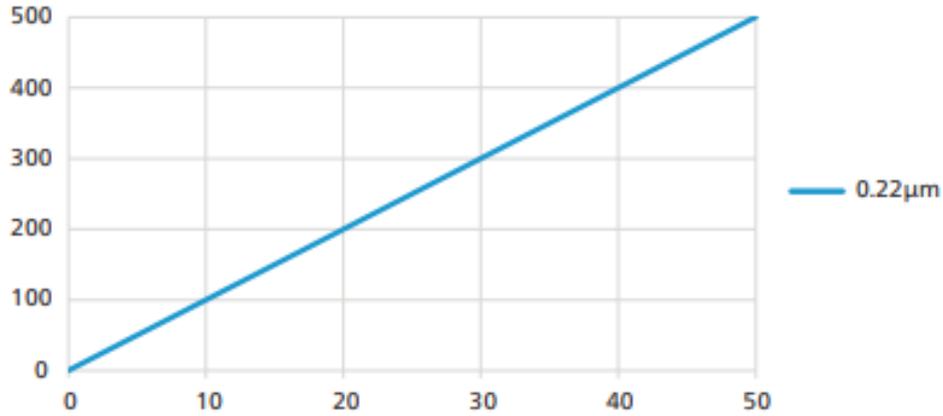


Quality Assurance

- All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182
- Full traceability marking
- Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121°C plastics and ISO 10993 equivalents
- Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Component materials meet criteria for Non fibre releasing filter as defined in 21 CFR.3 (b) (6)
- These products are manufactured in a facility which adheres to ISO 9001:2015 Practices
- Retention of 10⁷ cfu/cm² *Brevundimonas diminuta* (ATCC 19146) according to ASTM F838

Flow Rate Characteristics

Flow rate



Note: 10" cartridge tested with water @20°C, 1,005 cP (typical flow rate)

Part Numbers

PFA 0100 - 10 HSF - S

Code	Removal rating [µm]
0020	0.2
0050	0.5
0100	1
0500	5
1000	10

Code	Length	
	[mm]	[inch]
05	122	5
10	254	10
20	508	20
30	762	30
40	1016	40

Code	End caps
HTC	222 O-ring/flat (Code 3)
HTF	222 O-ring/fin (Code 8)
HSF	226 O-ring/fin (Code 7)

Code	O-Ring
S	Silicone
E	EPDM
P	PTFE enc. Viton

e.g. part number: PFA-0100-10-HSF-S

PFA filter, 1 µm, 10" Length, End caps Code 7, Silicone O-rings