

Masterfilter PFA series, utilizing expanded PTFE membranes and PFA (melt-processible Teflon®) core & 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.



Features and Benefits

- All-fluoro 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

Typical 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)

Quality Assurance

- Comply with the requirements of FDA 21 CFR and EU No. 1935/2004 and EU10/2011
- Full traceability marking
- Component materials toxicity meets the USP <88> tests for Class VI-121°C and ISO 10993 equivalents
- Bacterial Endotoxin testing as per LAL test determined by USP <85> ≤ 0,25 EU/mL
- Component materials meet criteria for 'Non-fibre releasing filter' as defined in 21 CFR.3 (b) (6)

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, PTFE encapsulated viton

Operating Parameters

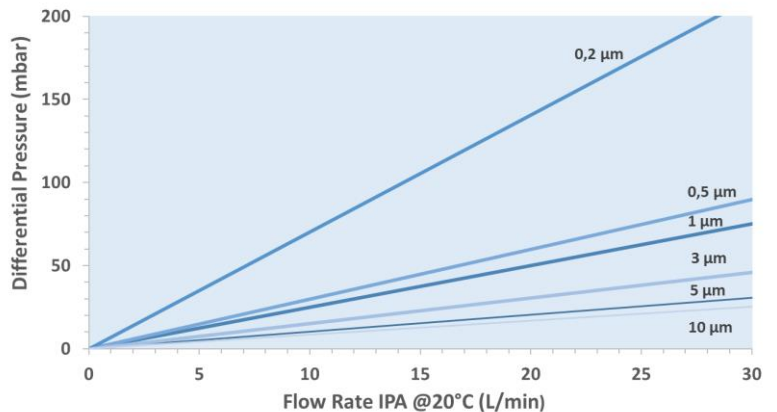
Max differential pressure forward: 4,0 bar at 50°C
 3,0 bar at 110°C
 1,5 bar at 170°C

Max operating temperature: 170°C

Effective Filtration Area (EFA)

0.7m² /10" (254mm)

Pressure Drop vs Flowrate PFA 0,2µm/0,5µm/1,0µm/3µm/5µm/10µm



Part Numbers

PFA		10			HSF		S	
Code	Removal rating micron	Code	mm	length inch	Code	end caps	Code	O-Rings
0020	0,2	05	122	5	HTC	222 O-ring/flat (Code 3)	S	Silicone
0050	0,5	10	254	10	HTF	222 O-ring/fin (Code 8)	E	EPDM
0100	1,0	20	508	20	HSF	226 O-ring/fin (Code 7)	P	PTFE encapsulated vi
0500	5	30	762	30				
1000	10	40	1016	40				

e.g. part number: **PFA0100-10-HSF-S**

PFA filter, 1,0 µm, 10" length, Code 7 end caps, silicone O-rings