

Masterfilter APF series

The Masterfilter *PreFil* APF series absolute rated polypropylene cartridges provide absolute efficiency and reliable performance in most critical applications. It combines high dirt holding capacity with long service life and high flow rates. 100% polypropylene construction with nanofiber media for high backwash capability and microbiological control make it an ideal filter for beverage applications.

Applications

- Beer filtration
- Food and Beverage
- Microbiological stabilisation
- Water purification
- Fine chemicals
- Pharmaceuticals
- Clarify filtration

Features and Benefits

- Nanofiber media provide high efficiency and dirt holding capacity
- Pleated surface provides excellent flow rate and long service life
- Absolute rating from 1 to 10 microns
- Microbiological retention on the < 1 micron versions
- Nanofiber PP for optimized backwash capability
- 100% PP offers compatibility with most chemicals, solvents caustic and acids
- Pleated surface provides excellent flow rates

Materials of Construction

- Membrane: Polypropylene nanofiber
- Support layers: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- End cap insert: Stainless 304
- O-rings: EPDM, Silicone, Viton

Operating Parameters

- Max. differential pressure forward: 5 bar at 20 °C
- Max. differential pressure reverse: 3 bar at 85 °C
- Max. back pressure: 2 bar at 20 °C, 0.4 bar at 80 °C
- In situ steam sterilisation: 121 °C for 20 min
- In situ hot water sanitisation: 80 °C
- Autoclaving: 134 °C for 30 minutes



Food and Biological Safety

- Comply with the relevant requirements of EU 1935/2004 and EU Directive 10/2011
- Pass USA Plastic Class VI Test
- No fibre releasing according to 21 CFR

Microbiological Retention

The APF absolute rated polypropylene cartridges nano fibre technology of the 1 micron version provides a high microbial stability of drinking water and beverage products by removing regulated micro-organisms over extended periods of use.

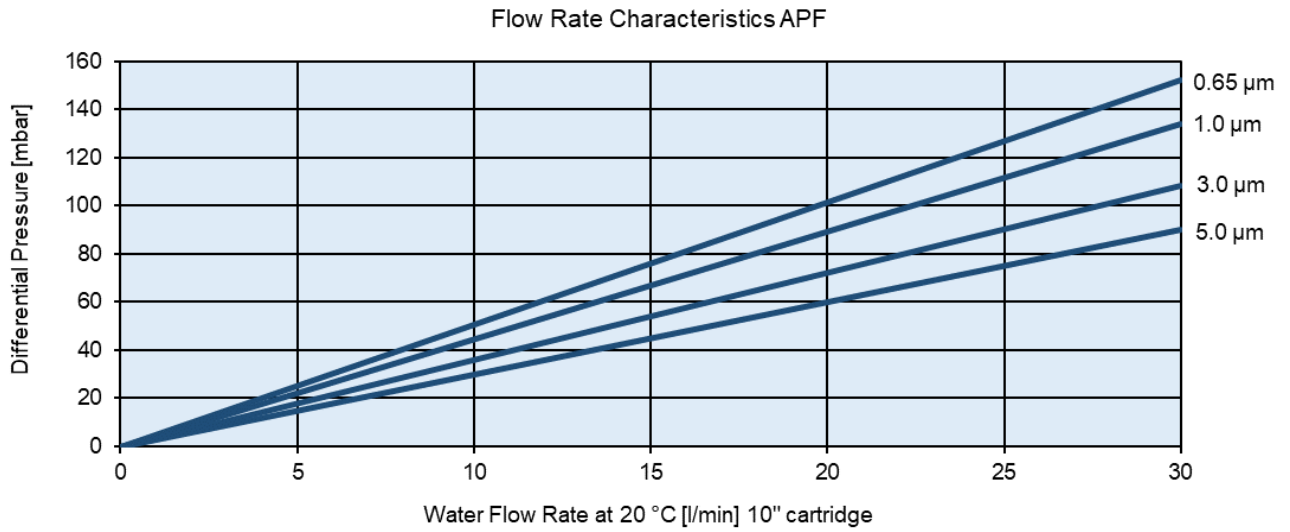
Full retention:

- *Saccharomyces cerevisiae*
- *Brettanomyces bruxellensis*
- Yeast
- Fungi

Partial retention:

- *Lactobacillus brevis*
- *Acetobacter oeni*
- *Serratia marcescens*
- *Pseudomonas aeruginosa*
- *Clostridium perfringens*

Flow Rate Characteristics



Part Numbers

APF 0500 - 10 - HSF - S

| Code | Removal rating [µm] |
|------|---------------------|
| 0100 | 1 |
| 0200 | 2 |
| 0300 | 3 |
| 0500 | 5 |
| 1000 | 10 |

| Code | Length | |
|------|--------|--------|
| | [mm] | [inch] |
| 10 | 254 | 10 |
| 20 | 508 | 20 |
| 30 | 762 | 30 |
| 40 | 1016 | 40 |

| Code | End caps |
|------|--------------------------|
| STC | Sartorius code 28 |
| HTC | 222 O-ring/flat (Code 3) |
| HTF | 222 O-ring/fin (Code 8) |
| HSF | 226 O-ring/fin (Code 7) |
| HSH | UF retrofit |

| Code | O-rings |
|------|----------|
| S | Silicone |
| E | EPDM |
| V | Viton |

e.g. part number: APF0500-10-HSF-S

APF filter, 5 µm, 10" Length, Code 7 End caps, Silicone O-rings