

Advantage™ PF **Filter Cartridges**

■ PTFE Membrane

Ultra-Pure Membrane Series

Double the Flow With Next Generation PTFE Membrane Filter Cartridges

Ultra-Pure PTFE membrane filter cartridges perform at the highest flow rate to provide the cleanest fluids at the lowest possible cost. Parker's unique PTFE membrane construction serves as a low-cost alternative to all Teflon cartridges in less aggressive applications and maintains broad chemical compatability with low extractable levels and high particle retention rates.

The Ultra-Pure PTFE Membrane Series is available in 0.1µm, 0.2µm, 0.45µm and 1µm pore sizes.

Applications

Pharmaceutial

- Tank Vents
- Filtration of **Compressed Gases**
- Filtration of Solvents

Process Gases

- Bulk and Pointof-Use Gases
- Compressed Air

Food and Beverage

- Sterile Venting of Holding Tanks
- Sterile CO₂ Filtration
- Microbial Control of Inlet Air for Bioprocessing of Foods

Chemicals

- Solvents
- Bulk Filling
- Acids



Features and Benefits

Superior Nylon Membrane Yields Maximum Filtration Results

- High flow rates and optimised surface area reduce processing time and filter consumption.
- Rinsed with 18 megohm-cm UHP water for high purity.
- Non-fibre releasing.
- All-polypropylene component construction complemented Biosafe in accordance with USP Class VI-121° by a variety of O-ring seals withstands demanding operating parameters.
- Narrow pore size distribution ensures the ultimate in retention
 All materials of construction are FDA listed as and flow rate.
- Naturally hydrophobic membrane maintains air flow rates in venting and gas applications.
- Available prewetted for immediate use in process.

Parker's TQM System Assures Consistent **Performance and Reliable Filtration**

- Strict quality control measures include rigorous testing for rinse up, shedding, flow rate and extractable levels.
- Integrity-tested and testable in situ.
- Thermally welded, eliminating adhesive extractables.
- Plastics Tests.
- Specifically designed to ensure cleanliness.
- acceptable for potable and edible liquid contact according to CFR Title 21.

Process Filtration Division





Ultra-Pure Membrane Series

Specifications

Materials of Construction:

- Membrane: hydrophobic PTFE.
- Membrane Support Drainage: polypropylene.
- Structural Components: polypropylene.
- O-Ring Material: various.
- Sealing Method: thermal welding.

Dimensions:

- Diameter: 2.7 in (68mm).
- Lengths: 10-40 in (250-1020mm).

Surface Area:

■ Minimum 7.5ft² (0.7 m²).

Endotoxins:

< 0.25 FU/ml.

Integrity Test:

■ Bubble Point (100% IPA). 0.1µm ≥ 24 psig (1.7 bar). 0.2µm ≥ 16 psig (1.1 bar). 0.45µm ≥ 6 psig (0.4 bar). 1µm ≥ 3 psig (0.2 bar).

Recommended Operating Conditions:

- Maximum Temperature:176°F (80°C) @ 30 △P (2.1 bar).
- Maximum Differential Pressure: Forward:

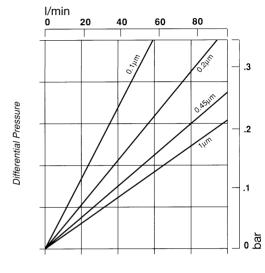
70 psi (4.8 bar) @ 77°F (25°C). 30 psi (2.1 bar) @ 176°F (80°C). Reverse:

50 psi (3.4 bar) @ 77°F (25°C).

Sterilization/Sanitization Methods:

- Autoclave or in situ Steam: 250°F (121°C) for 30 minutes at 15 psi (1.0 bar).
- 70% IPA.
- 10% Hydrogen Peroxide.

PTFE Cartridges: Flow rate vs. △P for a 1 cps liquid @ 73°F (23°C)**

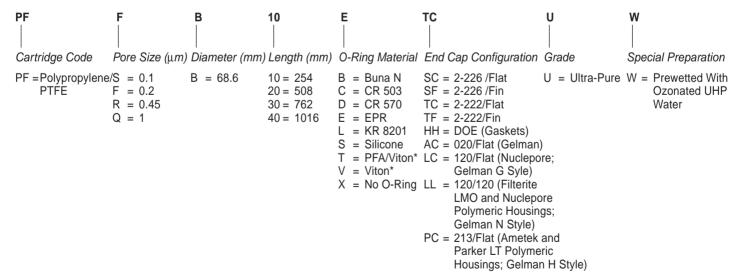


Flow Rate

Flow Factors:

Pore Size (μm)	l/min/ bar	bard/ I/min
0.1	164	0.006
0.2	247	0.004
0.45	356	0.003
1	411	0.002

Ordering Information



Process Filtration Division



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^{*} Consult Process Filtration Division for gas flow data.