

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 compatibility 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

Pharmaceutical

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

Process Gases

- Bulk and Point-of-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 PTFE Membrane Yields

Maximum Filtration Results

- High flow rates and optimized surface area reduce processing time and filter consumption.
- Rinsed with 18 megohm-cm UHP water for high purity.
- Non-fiber releasing.
- All-polypropylene component construction complemented by a variety of O-ring seals withstands demanding operating parameters.
- Narrow pore size distribution ensures the ultimate in retention and flow rate.
- Naturally hydrophobic membrane maintains air flow rates in venting and gas applications.
- Available pretwetted 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.
- Biosafe in accordance with USP Class VI-121° Plastics Tests.
- Specifically designed to ensure cleanliness.
- All materials of construction are FDA listed as 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 (6.8 cm)
- Lengths: 10-40 in (25-102 cm)

Surface Area (10 in cartridge):

- Minimum 7.5 ft² (0.7 m²)

Endotoxins:

- < 0.25 EU/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:

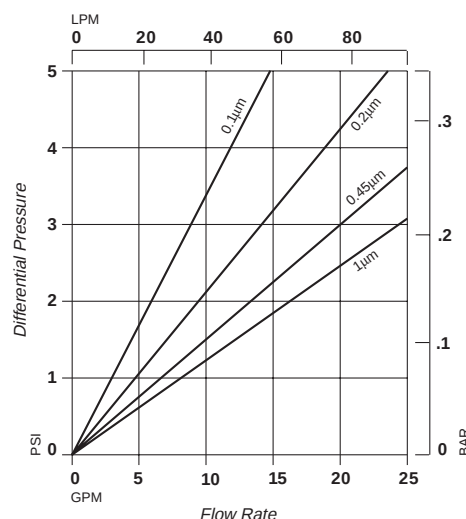
Maximum Temperature:
176°F (80°C) @ 30 ΔP (2.1 bar)
Maximum Differential Pressure:
Forward:
70 psi (4.8 bar) @ 77°F (25°C)
30 psi (2.1 bar) @ 176°F (80°C)
Reverse:
50 psi (3.4 bar) @ 77°F (25°C)

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. ΔP for a 1 cps
liquid @ 73°F (23°C)**



Flow Factors:

Pore Size (µm)	GPM/ 1 PSID	LPM/ 1 Bar	PSID/ 1 GPM	Bar/ 1 LPM
0.1	3.0	164	0.33	0.006
0.2	4.5	247	0.22	0.004
0.45	6.5	356	0.15	0.003
1	7.5	411	0.13	0.002

Cartridge Code	Pore Size (µm)	Diameter (in)	Length (in)	O-Ring Material	End Cap Configuration	Grade	Special Preparation
PF = Polypropylene/PTFE	S = 0.1 F = 0.2 R = 0.45 Q = 1	B = 2.7	10 = 10 20 = 20 30 = 30 40 = 40	B = Buna N C = CR 503 D = CR 570 E = EPR L = KR 8201 S = Silicone T = PFA/Viton* V = Viton* X = No O-Ring	SC = 2-226/Flat SF = 2-226/Fin TC = 2-222/Flat TF = 2-222/Fin HH = DOE (Gaskets) AC = 020/Flat (Gelman) LC = 120/Flat (Nuclepore; Gelman G Style) LL = 120/120 (Filterite LMO and Nuclepore Polymeric Housings; Gelman N Style) PC = 213/Flat (Ametek and Parker LT Polymeric Housings; Gelman H Style)	U = Ultra-Pure	W = Prewetted With Ozonated UHP Water

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** Consult Process Filtration Division for gas flow data.

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