

Fluoroflow®

Membrane Filter Cartridges



All-fluoropolymer cartridge for effective filtration of aggressive chemicals

Fluoroflow® pleated filter cartridges feature an all-fluoropolymer construction; this provides the highest chemical resistance when filtering acids, bases and solvents. Fluoroflow® cartridges fit standard filter housings and are available in a variety of filter ratings, lengths and end-fittings for maximum versatility. Fluoroflow® cartridges are available flushed with UPW to minimise extractables and wet-packed to eliminate the need for on-site wetting, to fit your needs.



Applications:

- Aggressive Acids, Bases and Solvents
- Photolithography chemicals
- Ozonated and/or hot UPW

Product Features:

- Excellent process resistance and chemical compatibility
- All filters are 100% integrity tested to assure reliable product performance
- High chemical compatibility maximises process capability
- Wet-packed option eliminates lengthy wetting procedure and minimises equipment downtime
- Biosafe in accordance with USP Class VI 121°C Plastics Test

Fluoroflow®

Specifications

Materials of Construction

100% Fluoropolymer construction

Dimensions

OD: 68.6mm
ID: 26.9mm
Surface Area: 0.63 m²

Recommended Operating Conditions

Max Temperature: 150°C at 1.0 bar
Max Pressure Forward: 5.5 bar at 24°C
3.8 bar at 75°C
2.0 bar at 125°C
1.0 bar at 150°C
Max Pressure Reverse: 3.4 bar at 24°C
1.0 bar at 121°C

Cleanliness (particle shedding)

Wet-packed <2 particles/ml;
> 0.2 after 26.6 litres at 3.8 l/min

TOC/Resistivity Rinse-up (wet-packed)

TOC recovery within 3-5 ppb of feed
without additional rinse-up

Resistivity recovery within 0.4
megohm-cm of feed after 83.6 litres
at 3.8 l/min

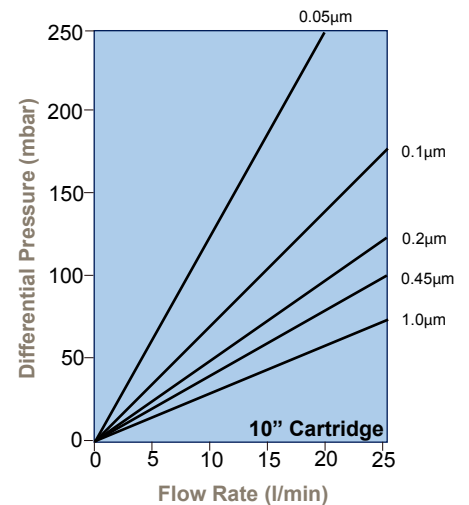
Integrity Test

Bubble Point (60/40 IPA/Water at 25°C)
0.05µm: > 2.8 bar
0.10µm: > 1.5 bar
0.20µm: > 0.9 bar
0.45µm: > 0.5 bar
1.00µm: > 0.2 bar

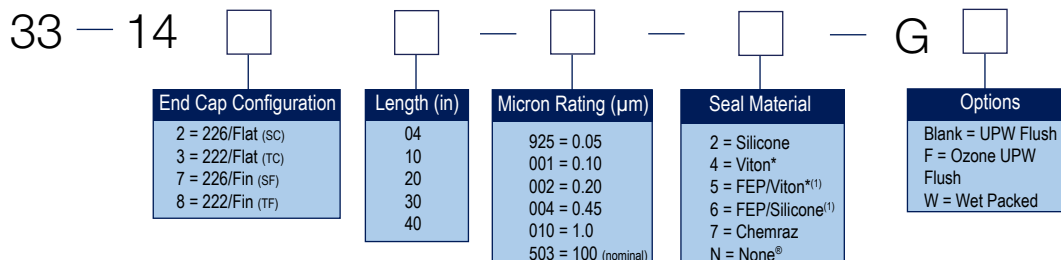
Flow Factor Table**

FluoroFlow	0.05µm	0.1µm	0.2µm	0.45µm	1µm
Flow factor (mbar / l/min @ 1cP)	20.408	7.874	5.682	3.876	2.710

Flow rate vs. ΔP (1 cps liquid @ 23°C)



Ordering Information:



1 - O-Rings Only

* - Trademark of E.I. duPont de Nemours & Co.

** - Flow factor required for sizing. Refer to page 62 for further information



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Map and Directions to Prosep Filters Limited



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)