

# Proflow™ II General Grade

## Membrane Filter Cartridges



### Hydrophobic PTFE membrane for general purpose gas and solvent purification

Proflow™ II General grade cartridges provide an economic alternative for general applications where reliable gas and liquid flow rates are required. With 0.52 square metre of expanded PTFE membrane, Proflow II-G is a highly efficient hydrophobic barrier, for the production of dry gas, and will effectively purify aggressive liquids and organic solvents. Proflow™ II-G cartridges are manufactured under clean room conditions and integrity tested before shipment to assure consistent performance and quality.



### Applications:

- Photoresists
- Compressed gas
- Non Sterile Venting
- Electronic grade solvents
- Hot deionised water (less than 80°C)
- Pharmaceutical solvents and intermediates

### Product Features:

- Reliable air and liquid flow rates for effective performance
- Broad chemical compatibility enables use in many applications
- Broad range of micron ratings for user convenience
- Superior hydrophobicity for long life in vent/air applications
- Integrity tested to ensure quality
- Biosafe in accordance with USP Class VI 121°C Plastics Test

# ProFlow™ II General Grade

## Specifications

### Materials of Construction

Membrane: PTFE  
 Membrane Support: Polypropylene  
 Structural Components: Polypropylene

### Dimensions

OD: 68mm  
 ID: 25.4mm  
 Surface Area: 0.52 m<sup>2</sup>

### Recommended Operating Conditions

Max Temperature: 82°C @ 2.8 bar  
 Max Pressure Forward: 5.5 bar @ 24°C  
 2.8 bar @ 82°C  
 Max Pressure Reverse: 3.4 bar @ 24°C

### Cleanliness (particle shedding)

Wet-packed <1 particles/ml;  
 > 0.2 after 11.4 litres at 3.8 l/min

Data is from open bag and installed,  
 no additional installation flushing

### TOC/Resistivity Rinse-up (wet-packed)

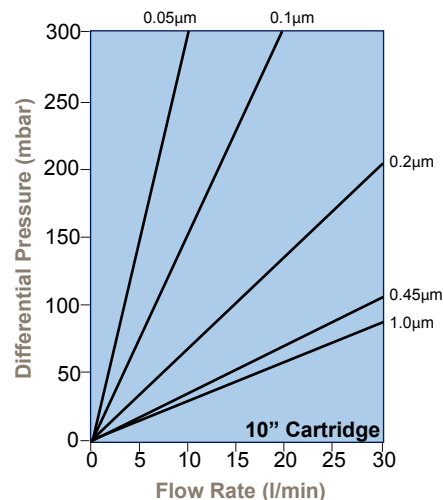
TOC rinse-up to background plus 266  
 litres at 3.8 l/min

Resistivity rinse-up to background  
 minus 0.2 megaohm-cm of feed after  
 114 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

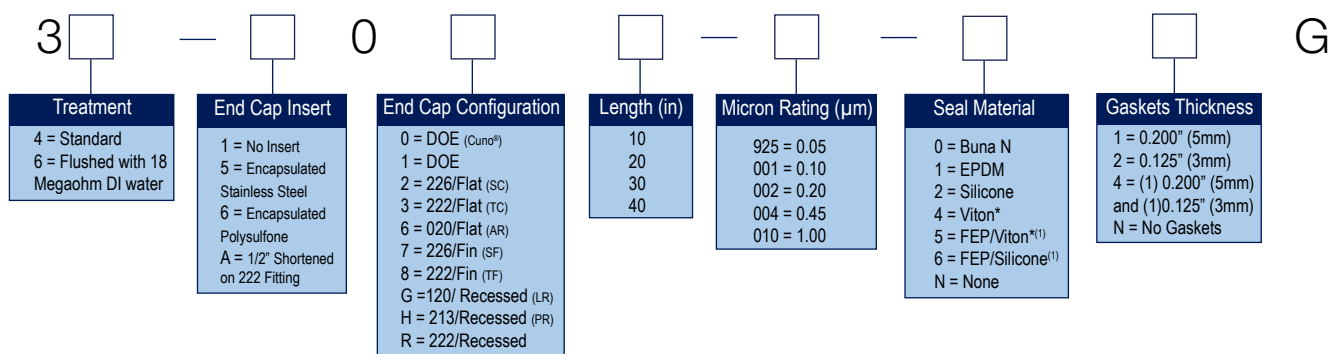
Flow rate vs. ΔP  
 (1 cps liquid @ 23°C)



### Flow Factor Table\*\*

ProFlow II General Grade	0.05µm	0.1µm	0.2µm	0.45µm	1µm
Flow factor (mbar / l/min @ 1cP)	29.499	15.175	7.283	3.571	2.938

## 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](#)