

# Proflow™ II Pharmaceutical LBR

Pleated PTFE Membrane Cartridge for  
Pharmaceutical Solvent Sterilization

The Proflow II Pharmaceutical Liquid Bacterial Retentive (LBR) cartridge is designed for those who require sterile pharmaceutical fluids and is validated to provide sterility through the retention of *Brevundimonas diminuta* per HIMA guidelines. Along with its sterilizing-grade performance, this cartridge exhibits high air and fluid flow rates due to the 9.3ft<sup>2</sup> of expanded PTFE membrane it contains.

Proflow II-LBR cartridges are manufactured in a certified Class 10,000 cleanroom where they are flushed with non-pyrogenic deionized water and 100% integrity tested as well as serialized to provide complete product traceability.



## Contact Information

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## Benefits

- Fully validated for sterilizing-grade performance
- Broad chemical compatibility allows use with most pharmaceutical solvents
- Long service life minimizes change-out frequency
- Low differential pressure reduces energy costs
- Integrity tested to ensure quality
- Serialized for immediate traceability

## Applications

- Solvent sterilization
- Extraction/crystallization solvents
- Hot WFI filtration
- Aseptic packaging air / sterile air supply
- Fermenter/tank vents



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## Pleated PTFE Membrane Cartridge for Pharmaceutical Solvent Sterilization

### Liquid Flow Rates\*

10 inch (250mm) cartridges  
Liquid: 1.9gpm/psid  
(10.43 lpm/100 mbar)

5 inch (130mm) cartridges  
Liquid: 1.0gpm/psid  
(5.5 lpm/100 mbar)

### Materials of Construction

Membrane: PTFE  
Support layers: Polypropylene  
Structure: Polypropylene

All components meet USP XXIII Class VI-121°C criteria and are thermally bonded to assure integrity and minimize extractables.

### Effective Filtration Area

10 inch (250mm) cartridges  
9.3 ft<sup>2</sup> (0.86 mm)

5 inch (130mm) cartridges  
4.6 ft<sup>2</sup> (0.43 mm)

### Bacteria Retention

Proflow II LBR cartridges will provide a sterile effluent when challenged with greater than 10<sup>7</sup> CFU of *Brevundimonas diminuta* per cm<sup>2</sup> of EFA in accordance with the test methodology recommended by HIMA and defined by ASTM method F838-05.

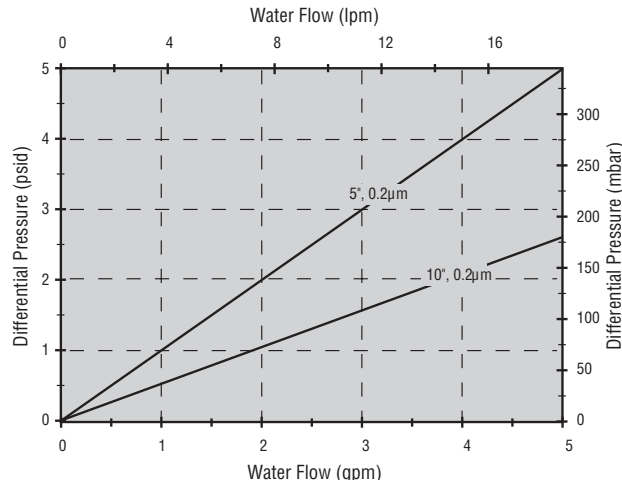
### Steam Sterilization

Cartridges may be steamed or autoclaved for over 20 one-hour cycles @ 275°F (145°C). Cartridges may also be chemically sanitized in place using common sanitizing agents.

### Maximum Differential Pressure

Forward:  
80psid (5.5 bar) @ 75°F (24°C)  
40psid (2.8 bar) @ 180°F (82°C)

Reverse:  
50psid (3.4 bar) @ 75°F (24°C)



### Ordering Information

Each cartridge is identified with a product number, pore size, and lot number for traceability.

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Insert Style	
CODE	DESCRIPTION
5	Encapsulated 316L Stainless Steel
6	Encapsulated Polysulfone (Standard)

End Fitting	
CODE	DESCRIPTION
2	226/Flat
3	222/Flat
7	226/Fin
8	222/Fin

Nominal Length	
CODE	FITTING
05	5" (130mm)
10	10" (250mm)
20	20" (500mm)
30	30" (750mm)
40	40" (1000mm)

O-Rings	
CODE	MATERIAL
1	EPDM
2	Silicone (recommended)
4	Viton®
5	Encapsulated Viton
6	Encapsulated Silicone
N	None

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