

# User Guide

## OptiScale®-25 Capsule Filter

### Introduction

The OptiScale®-25 capsule filter is a single use filter designed for process development and scaling. It is not designed or validated as a sterilizing grade filter.

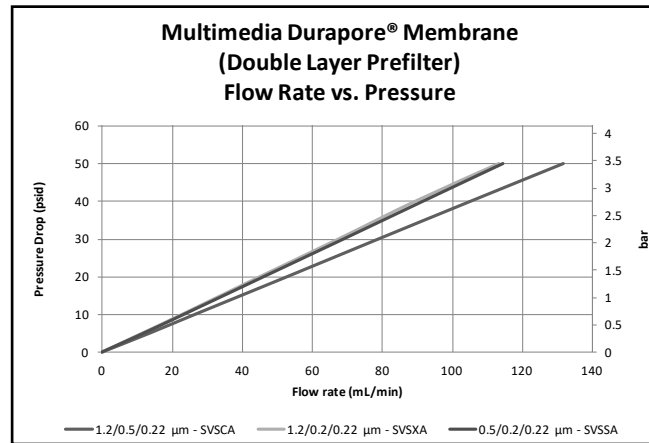
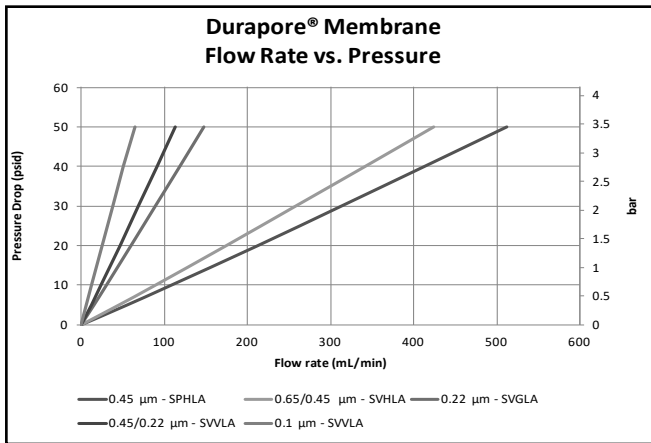
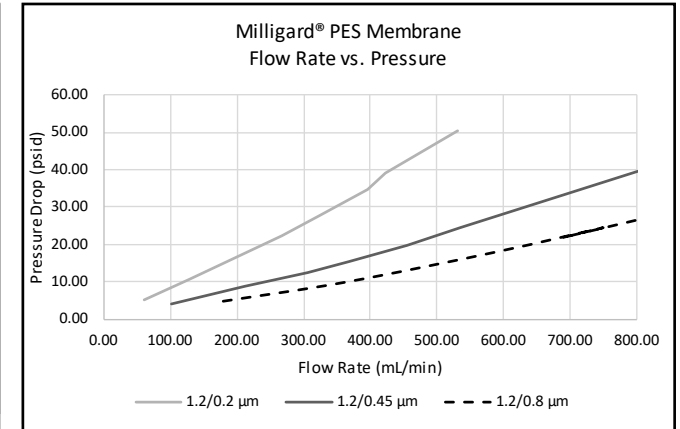
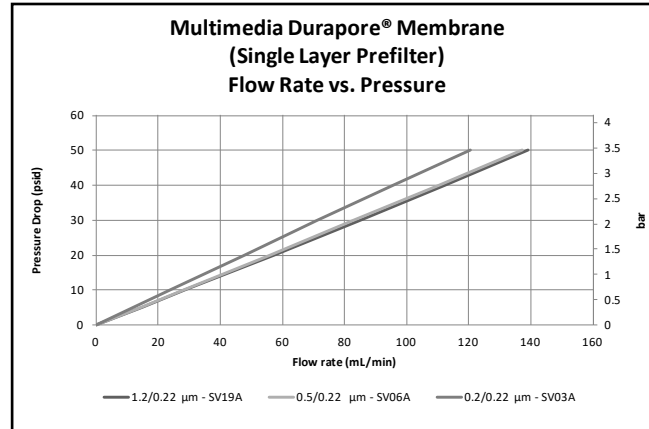
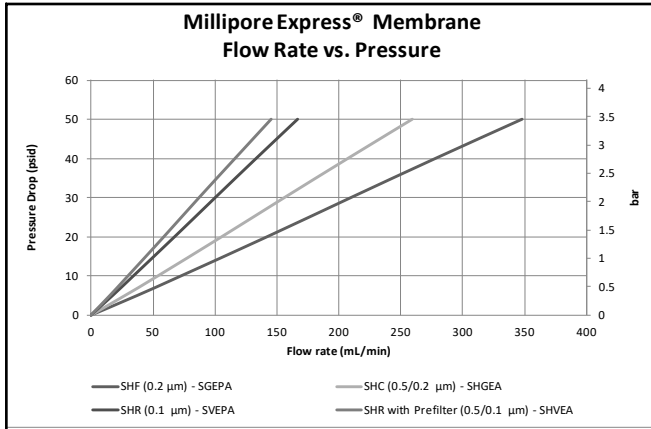
### Specifications

Please refer to the Certificate of Quality for complete specifications.

Maximum forward operating pressure	4.1 bar (60 psi) at ambient temperature. <b>Do not apply reverse pressure to the filter.</b>
Storage	Store in original packaging at room temperature.
Sterilization OptiScale®-25 capsule filters are single use devices.	Filter may be autoclaved one time for 60 minutes at 123 °C. <b>Do not clean in place.</b> <b>Do not steam sterilize.</b> <b>Do not expose to gamma radiation.</b>
Connection Fittings	Inlet: Female Luer-Lok™ Outlet: Male Luer slip Vent: Female Luer-Lok™ with cap
Effective Surface Area	3.50 cm <sup>2</sup>
Labeling	Each filter is labeled with membrane type and pore size. Box labels contain product and lot data.

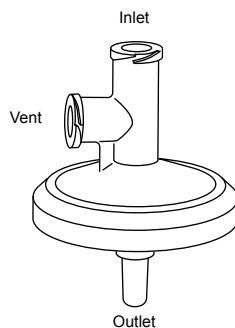
## Flow Rate vs. Pressure

Refer to typical water flow rates below to verify full wetting of the membrane prior to use. Flow rates shown are at 23°C.



## Installation

1. Remove filter from packaging.
2. Connect the filter inlet to the inlet tubing.
3. Connect the filter outlet to the outlet tubing.
4. Install the filter in the vertical position with the inlet on top and outlet on bottom to avoid air lock.
5. Autoclave if required.



## Wetting

### Notes

- Avoid introducing air into the filter.
  - The filter must be completely wetted. Any residual air in the filter may impair fluid flow and reduce the capacity of the filter.
  - Install the filter in the vertical position with the inlet on top and outlet on bottom to avoid air lock.
1. If a Luer-Lok™ valve is installed on the filter outlet, close the valve to prevent filtrate flow.
  2. Slowly introduce the process fluid through the capsule inlet port.
  3. Open the vent until no air escapes through the vent and process fluid is visible.
  4. Close the vent.

## Standard Warranty

The applicable warranty for the products listed in this publication may be found at [www.emdmillipore.com/terms](http://www.emdmillipore.com/terms) (within the "Terms and Conditions of Sale" applicable to your purchase transaction).

## Technical Assistance

For more information, contact the office nearest you or visit the Technical Service page at [www.emdmillipore.com/techservice](http://www.emdmillipore.com/techservice). Worldwide contact information is available at [www.emdmillipore.com/offices](http://www.emdmillipore.com/offices).

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For more information and documentation please contact:  
 Merck KGaA, Darmstadt, Germany  
 Corporation with General Partners  
 Frankfurter Str. 250  
 64293 Darmstadt, Germany  
 Phone: + 49 6151-72 0

For requests from USA and Canada please contact:  
 EMD Millipore Corporation  
 A subsidiary of Merck KGaA, Darmstadt, Germany  
 290 Concord Road  
 Billerica, MA 01821, USA  
 Phone: 1-800-645-5476

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