Description
The EverLUX® STC0.1 features two serially layered, highly asymmetric and asymmetric PES membranes designed for 100% removal of mycoplasma. The coarser upstream layer is optimized for prefiltration. The filter is 100% integrity tested and DI flushed during manufacture, and it has the added benefit of certification that meets the critical needs of the pharmaceutical, biotechnology and related industries.

Materials of Construction
All components of the EverLUX® filter capsule are either animal component free or in compliance with EMEA/410/01 Rev. 3 (EDQM 5.2.8 07/2011:50208), and US Code of Federal Regulations 9 CFR 94.18 and 21 CFR 189.5. These materials are listed for food contact use in the Code of Federal Regulations (CFR), Title 21, as below:

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
<th>CFR Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter membrane</td>
<td>Polyethersulfone</td>
<td>21, 177.2440</td>
</tr>
<tr>
<td>Up/downstream support</td>
<td>Polypropylene</td>
<td>21, 177.1520</td>
</tr>
<tr>
<td>Core, outer guard, end caps</td>
<td>Polypropylene</td>
<td>21, 177.1520</td>
</tr>
<tr>
<td>Capsule shell</td>
<td>Polypropylene</td>
<td>21, 177.1520</td>
</tr>
<tr>
<td>Sealing method</td>
<td>Thermal bonding</td>
<td></td>
</tr>
</tbody>
</table>

Pore Size
0.1 μm

Maximum Diffusion Rate
25 mL/min per 10” (25 cm) @ 40 psi (2.76 bar), water

Typical Water Flow Rate
1.26 psid/gpm (0.44 L/min at Δp 10 mbar)

Operating Characteristics
- Operating temperature range: 32 °F to 100 °F (0 °C to 38 °C)
- Maximum temperature rating: 140 °F @ 55 psig (60 °C @ 3.8 bar), liquid service
- Maximum temperature rating: 140 °F @ 35 psig (60 °C @ 2.4 bar), gas service
- Maximum operating pressure: 90 psig @ 100 °F (6.2 bar @ 38 °C), liquid service
- Maximum operating pressure: 60 psig @ 100 °F (4.1 bar @ 38 °C), gas service
- Maximum reverse pressure: 15 psig @ 100 °F (1.0 bar @ 38 °C)

Bacterial Retention
>10⁷ per cm² removal of Brevundimonas diminuta per ASTM F838
>10⁷ per cm² removal of Acholeplasma laidlawii per modified ASTM F838

Sterilization
Autoclave: 121 to 135 °C (15 to 30 psi, 1 to 2 bar), 30 to 60 min, ≥ 3 cycles. Water wet membrane prior to autoclaving. Gamma irradiation: 25 to 40 kGy once. Do not autoclave irradiated capsules. Capsules must not be in line steam sterilized.

Biological Safety
EverLUX® filters meet the requirements as specified in the current USP <88> Class VI plastics, physicochemical, oxidizable substances, and USP <87> cytotoxicity tests. Bacterial endotoxin levels in aqueous extracts of EverLUX® filters are less than 0.5 EU/mL, as determined using the Limulus amebocyte lysate (LAL) test USP <85>. No binders, adhesives or surfactants are used in the construction of EverLUX® filters. Filters comply with European Commission Regulation No 10/2011.

Quality Assurance
EverLUX® filters comply with the Food and Drug Administration Code of Federal Regulations, Title 21, Parts 210 and 211. Product is manufactured and packaged in a cleanroom facility that, through voluntary compliance, meets or exceeds FDA Good Manufacturing Practice Standards. To ensure product reliability, Meissner’s Quality Assurance staff continually audits the manufacturing process for conformance to its Quality Management System. Each EverLUX® filter is integrity tested during manufacture and is clearly marked with filter type, lot number and serial number.
### Ordering Guide

<table>
<thead>
<tr>
<th>CR</th>
<th>2</th>
<th>STC</th>
<th>0.1 - 1</th>
<th>T</th>
<th>00</th>
<th>4</th>
</tr>
</thead>
</table>

#### Sterile Filter Option
- Standard capsule: CR
- Sterile capsule: GR

#### Housing Material Designator
- Gamma-stable polypropylene, animal component free (ACF): 2

#### Product
- EverLUX® hydrophilic PES membrane: STC 0.1 µm

### Vent/Drain Ports

#### Inline Configuration
- 0: No vent/drain valves
- 2: Vent/drain valves at inlet and outlet
- 4: Vent/drain valve at outlet

#### T-style Configuration
- 0: No vent; no drain
- 1: No vent; standard drain plug
- 2: Standard vent valve; standard drain plug
- 3: Standard vent valve & drain plug; 3/4" sanitary flange gauge port
- 4: Standard vent valve; no drain
- 5: Standard vent valve; no drain; 3/4" sanitary flange gauge port
- 6: No vent; no drain; 3/4" sanitary flange gauge port
- A: No vent; sanitary drain valve
- B: Standard vent valve; sanitary drain valve
- C: Standard vent valve; sanitary drain valve; 3/4" sanitary flange gauge port

### Inlet/Outlet Connections

<table>
<thead>
<tr>
<th>00</th>
<th>1&quot; sanitary flange</th>
<th>77</th>
<th>3/4&quot; sanitary flange</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>1&quot; sanitary flange in &amp; 3/8&quot; hose barb out</td>
<td>88</td>
<td>3/4&quot; hose barb</td>
</tr>
<tr>
<td>08</td>
<td>1&quot; sanitary flange in &amp; 3/4&quot; hose barb out</td>
<td>99</td>
<td>9/16&quot; hose barb</td>
</tr>
<tr>
<td>09</td>
<td>1&quot; sanitary flange in &amp; 9/16&quot; hose barb out</td>
<td>AA</td>
<td>1/2&quot; male Flaretek®</td>
</tr>
<tr>
<td>0C</td>
<td>1&quot; sanitary flange in &amp; 1/2&quot; hose barb out</td>
<td>BB</td>
<td>3/4&quot; male Flaretek®</td>
</tr>
<tr>
<td>0D</td>
<td>1&quot; sanitary flange in &amp; 1&quot; hose barb out</td>
<td>CC</td>
<td>1/2&quot; hose barb</td>
</tr>
<tr>
<td>22</td>
<td>3/8&quot; hose barb</td>
<td>DD</td>
<td>1&quot; hose barb</td>
</tr>
</tbody>
</table>

### Body Style
- N: Inline configuration
- T: T-style configuration

### Filter Length
- 1: 10"
- 2: 20"
- 3: 30"
- 4: 40"
- 5: 50"

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Additional information about this filter product is available in the EverLUX® Green Docs document at www.meissner.com/green-docs.

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