Description
The EverLUX® STW0.2 features two serially layered, highly asymmetric, hydrophilic polyethersulfone (PES) membranes with the coarser upstream layer optimized for prefiltration and provides the added benefit of certification that meets the critical demands of the pharmaceutical, biotechnology, and related industries.

Materials of Construction
All components of the EverLUX® filter capsule are either animal 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>Membranes:</th>
<th>Polyethersulfone (PES)</th>
<th>CFR Title 21, 177.2440</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upstream support:</td>
<td>Polypropylene</td>
<td>CFR Title 21, 177.1520</td>
</tr>
<tr>
<td>Downstream support:</td>
<td>Polypropylene</td>
<td>CFR Title 21, 177.1520</td>
</tr>
<tr>
<td>Outer guard:</td>
<td>Polypropylene</td>
<td>CFR Title 21, 177.1520</td>
</tr>
<tr>
<td>Core:</td>
<td>Polypropylene</td>
<td>CFR Title 21, 177.1520</td>
</tr>
<tr>
<td>End caps:</td>
<td>Polypropylene</td>
<td>CFR Title 21, 177.1520</td>
</tr>
<tr>
<td>Capsule shell:</td>
<td>Polypropylene</td>
<td>CFR Title 21, 177.1520</td>
</tr>
<tr>
<td>Sealing method:</td>
<td>Thermal bonding</td>
<td></td>
</tr>
</tbody>
</table>

Pore Size (Absolute) 0.2 μm

Maximum Diffusion Rate 30 mL/min per 10" (25 cm) @ 30 psi (2.07 bar), water

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

Operating Characteristics
 Operating temperature range: 32 °C to 100 °C (0 ºC to 38 ºC)
 Maximum temperature rating: 140 °F @ 55 psig (60 ºC @ 3.8 bar), liquid service
 Maximum temperature rating: 140 °F @ 35 psig (2.1 bar), gas service
 Maximum operating pressure: 90 psig @ 100 °F (6.2 bar @ 38 ºC), liquid service
 Maximum operating pressure: 60 psig @ 100 °F (4.1 bar @ 38 ºC), gas service
 Maximum reverse pressure: 15 psig @ 100 °F (1.0 bar @ 38 ºC)

Sterilization
Autoclave: 121 to 135 ºC (15 to 30 psi, 1 to 2 bar), 30 to 60 min, ≥ 3 cycles. Water wet membrane prior to autoclaving. Irradiation: 25 to 40 kGy once. Do not autoclave irradiated capsules. Capsules must not be steamed in place (SIP).

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
Each EverLUX® STW0.2 is supplied with a Certificate of Quality verifying the high standards and superior performance of the product. 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

#### Sterile Filter Option
- Standard; non-sterile: CR
- Presterilized: GR

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

#### Vent/Drain Ports
- **Inline Configuration**
  - 0: No vents/ drains
  - 2: Vent/drain at inlet and outlet
  - 4: Vent/drain at outlet
- **T-style Configuration**
  - 0: No vent; no drain
  - 1: No vent; standard 1/4" drain plug
  - 2: Std. vent valve; std. drain plug
  - 3: Std. vent & drain plug; 3/4" TC gage port
  - 4: Std. vent; no drain
  - 5: Std. vent; no drain; gage port
  - 6: No vent; no drain; gage port
  - A: No vent; sanitary drain valve
  - B: Std. vent; sanitary drain valve
  - C: Std. vent; san. drain valve; gage port

#### Inlet / Outlet Connections
- **Inline Configuration**
  - 00: 1" sanitary (TC) flange
  - 02: 1" TC in & 3/8" hose barb out
  - 08: 1" TC in & 3/4" hose barb out
  - 09: 1" TC in & 9/16" hose barb out
  - 0C: 1" TC in & 1/2" hose barb out
  - 0D: 1" TC in & 1" hose barb out
  - 22: 3/8" hose barb
- **T-style Configuration**
  - 77: 3/4" sanitary flange
  - 88: 3/4" hose barb
  - 99: 9/16" hose barb
  - AA: 1/2" male Flaretek®
  - BB: 3/4" male Flaretek®
  - CC: 1/2" hose barb
  - DD: 1" hose barb

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

#### Filter Length
- 10" 20" 30" 40" 50"

#### Product
- **EverLUX® PES membrane (hydrophilic)**
- Filter Grade: STW
- Retention Rating: 0.2 µm

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

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