

# SteriLUX®

## VTH0.1 Mini Capsule

### Description

Identical to the VMH0.1, the sterilizing grade SteriLUX® VTH0.1 PVDF hydrophilic filter capsule 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 SteriLUX® mini capsule are animal free. These materials are listed for food contact use in the Code of Federal Regulations (CFR), Title 21, as below:

Membrane:	Polyvinylidene fluoride	CFR Title 21, 177.2510
Upstream support:	Polypropylene	CFR Title 21, 177.1520
Downstream support:	Polypropylene	CFR Title 21, 177.1520
Outer guard:	Polypropylene	CFR Title 21, 177.1520
Core:	Polypropylene	CFR Title 21, 177.1520
End caps:	Polypropylene	CFR Title 21, 177.1520
Capsule housing:	Polypropylene	CFR Title 21, 177.1520
Sealing method:	Thermal bonding	

**Pore Size** 0.1 µm

**Minimum Bubble Point**  
70 psi (4,8 bar), water  
26 psi (1,8 bar), 60% IPA / 40% water  
25 psi (1,7 bar), 70% IPA / 30% water

**NVR Extractables** ≤ 0.05% in water

**Bacterial Retention**  
>10<sup>7</sup> per cm<sup>2</sup> removal of *Brevundimonas diminuta* per ASTM F838  
Typically 10<sup>5</sup> per cm<sup>2</sup> removal of *Acholeplasma laidlawii* per modified ASTM F838

### Operating Characteristics

Operating temperature range: 32 °F to 122 °F (0 °C to 50 °C)  
Maximum operating pressure: 100 psig (6,9 bar)

### Sterilization

Autoclave: 121 to 135 °C (15 to 30 psi, 1 to 2 bar), 30 to 60 min, ≥ 3 cycles  
Gamma irradiation: 25 to 40 kGy once. Do not autoclave irradiated capsules.  
Capsules must not be steamed in place (SIP).

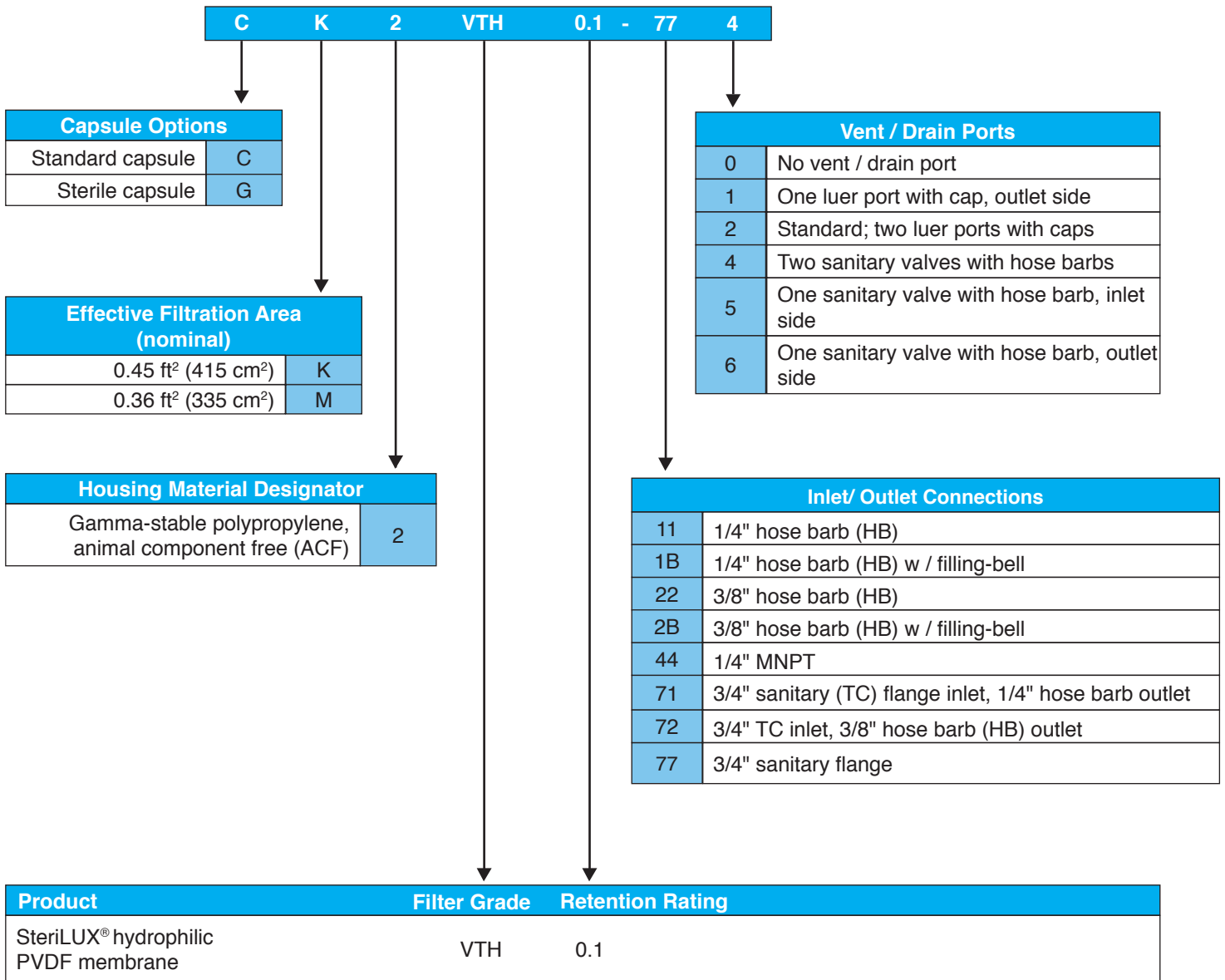
### Biological Safety

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

### Quality Assurance

Each SteriLUX® VTH0.1 filter is supplied with a Certificate of Quality verifying the high standards and superior performance of the product. SteriLUX® 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 SteriLUX® filter is integrity tested during manufacture and is clearly marked with filter type, lot number and serial number.

## Ordering Guide



Additional information about SteriLUX<sup>®</sup> filter products is available in the Green Docs document which is viewable at <https://www.meissner.com/downloads/sterilux-gd003-2.1.pdf>

SteriLUX is a registered trademark of Meissner Filtration Products.