STyLUX®

0.2 µm SP-grade Large Capsule Filter (UltraCap® H.D. Model)

Description
The STyLUX® SP0.2 filter is a hydrophilic PES membrane filter compatible with a wide range of liquids. It withstands a wide pH range (1-14) and is suited for removal of microorganisms and particulates in high-purity liquids and aqueous chemicals. The filter’s asymmetric membrane structure provides bacteria and particle removal at high flow rates and low pressure drops. STyLUX® has very low binding characteristics for preservatives commonly used in the pharmaceutical industry, and is compatible with most cleaning chemicals, sanitizers, and biocides.

Materials of Construction
All components of the STyLUX® capsule filter are animal component free (ACF). These materials are listed for food contact use in the Code of Federal Regulations (CFR), Title 21, as below:

Filter membrane: Polyethersulfone (PES) CFR Title 21, 177.2440
Up/downstream support: Polypropylene CFR Title 21, 177.1520
Core, outer guard, end caps: Polypropylene CFR Title 21, 177.1520
Capsule shell: Polypropylene CFR Title 21, 177.1520
Sealing method: Thermal bonding

Pore Size
0.2 µm

Minimum Bubble Point
34 psi (2.34 bar), water
11 psi (0.76 bar), 60% IPA/40% water

Maximum Diffusion Rate
25 mL/min per 10" (25 cm) @ 25 psi (1.72 bar), water
0.17 psid/gpm per 10" (3.23 L/min at Δp 10 mbar per 25 cm)

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 (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)

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. Irradiation: 25 to 40 kGy once. Do not autoclave irradiated capsules. Capsules must not be in-line steam sterilized.

Biological Safety
STyLUX® filters meet the requirements as specified in the current USP <88> Class VI plastics, <87> cytotoxicity, pyrogenicity, physicochemical, and USP 43 oxidizable substances tests. Bacterial endotoxin levels in aqueous extracts of STyLUX® filters are less than 0.5 EU/mL, as determined using the Limulus amebocyte lysate (LAL) test. No binders, adhesives, or surfactants are used in the construction of STyLUX® filters. Filters comply with Commission Regulation (EU) No 10/2011.

Quality Assurance
STyLUX® 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 STyLUX® filter is integrity tested during manufacture and is clearly marked with filter type and lot number.
Ordering Guide

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

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

### Vent/Drain Ports
- **Inline Configuration**
  - 0: No vents/drain
  - 2: Vent/drain at inlet and outlet
  - 4: Vent/drain at outlet
  - K: SPD vent/drain at inlet/outlet
  - L: SPD vent/drain, outlet only

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

### Inlet/Outlet Connections
- 00: 1" sanitary flange
- 02: 1" sanitary flange in & 3/8" hose barb out
- 08: 1" sanitary flange in & 3/4" hose barb out
- 09: 1" sanitary flange in & 9/16" hose barb out
- 0C: 1" sanitary flange in & 1/2" hose barb out
- 0D: 1" sanitary flange in & 1" hose barb out
- 22: 3/8" hose barb
- 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" 2 20" 3 30" 4 40" 5 50"

### Product
- STyLUX® hydrophilic PES membrane
- SP 0.2 µm

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

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