25 mm Filter
Syringe Filter
25 mm Syringe Filters

Meissner's 25 mm syringe filters are convenient, ready-to-use devices for critical small-scale filtration, process development, and scale up evaluation. Meissner's filters are available in a wide range of media options to cater to application requirements.

Meissner's 25 mm filters are available sterile (irradiated) or non-sterile and feature minimal extractables, low adsorption, and low hold-up volumes.

Syringe filters are manufactured from the same materials of construction as Meissner's entire capsule filter portfolio to facilitate scale-up without requalification or revalidation concerns.

Inlet and outlet options maximize flexibility.

Available with retention ratings from 0.04 to 20 µm.

General Design

- T-grade filters are 100% integrity tested during manufacture
- Individually serialized for optimum traceability in critical applications
- Materials of construction are identical to Meissner's entire range of capsule filters, from 50 mm critical devices through UltraCap® H.D. high capacity capsule filters for seamless scale-up
- Irradiation stable and Animal Component Free (ACF)
- Hose barb and luer lock process connections
- PP (polypropylene) housing

Typical Applications

- Serum & serum additives
- Growth media, additives, and buffers
- Tissue and cell culture media
- Protein solutions
- Monoclonal antibodies
- DNA solutions
- Aqueous solutions
- Solvents
- Pharmaceutical preparations, and intermediates
- Reagents
- Sterile filtration of small volume liquids
- Drug development studies
- Filterability testing
- Sterile filtration of gasses and air
- Sterile venting
- Clarification
Materials of Construction
Capsule Housing: PP
Support Components: PP
Sealing Method: Thermal Bonding

Filter media

| SterilUX® polyvinylidene fluoride (PVDF) |
| STyLUX® polyethersulfone (PES) |
| Steridyne® polyvinylidene fluoride (PVDF) |
| Ultradyne® polytetrafluoroethylene (PTFE) |
| ALpHA® polypropylene (PP) |
| ALpHA® G polyester (PBT) |

Filters comply with European Commission Regulation No. 10/2011. The filters meet the requirements as specified in the current USP <88> Class VI plastics, pyrogen, and USP <87> cytotoxicity tests. No binders or adhesives are used in the construction of these filters. Capsule filters are non-fiber-releasing as defined in 21 CFR 210.3(B)(6) and 211.72. All materials of construction meet FDA standards for food contact per CFR 177.

Additional Offerings
Meissner’s portfolio of scalable capsule filter options is available in configurations offering from 3.6 cm² to more than 3.5 m² to meet application requirements.

Sterilization
Autoclave: 121 °C to 135 °C (15 to 30 psi, 1 to 2 bar), 30 to 60 minutes, ≥3 cycles.
Irradiation: 25 to 40 kGy once*. Do not autoclave irradiated capsules.
Capsules must not be in-line steam sterilized.

Operating Characteristics
Operating temperature range:
32 °F to 100 °F (0 °C to 38 °C)
Maximum temperature rating:
160 °F @ 35 psig (71 °C @ 2.4 bar)
Maximum operating pressure:
80 psig @ 100 °F (5.5 bar @ 38 °C)

Effective Filtration Area
3.6 cm²

Filter Connections
Inlet/Outlet: Luer or hose barb fittings

Retention Ratings
0.04 µm to 20 µm
**Ordering Information**

<table>
<thead>
<tr>
<th>Sterile Option</th>
<th>Effective Filtration Area</th>
<th>Material Code</th>
<th>Filter Grade</th>
<th>Retention Rating (µm)</th>
<th>Inlet/Outlet Connections</th>
<th>Vent/Drain Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>C = Standard capsule</td>
<td>A = 3.6 cm²</td>
<td>2 = Animal component free (ACF) capsule shell material, optimized for gamma irradiation compatibility</td>
<td>SM</td>
<td>0.2</td>
<td>EF = Female luer lock inlet &amp; male luer slip outlet</td>
<td>0 = No vent/ drain ports</td>
</tr>
</tbody>
</table>

### Media

<table>
<thead>
<tr>
<th>Media</th>
<th>Grade</th>
<th>Retention Rating (µm)</th>
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</thead>
<tbody>
<tr>
<td>Hydrophilic membranes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SteriLUX® PVDF</td>
<td>VMH</td>
<td>0.1, 0.2, 0.4, 0.6</td>
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<tr>
<td>STyLUX® PES</td>
<td>VTH</td>
<td>0.1, 0.2, 0.4</td>
</tr>
<tr>
<td>STyLUX® PES</td>
<td>SC</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td>SM</td>
<td>0.04, 0.1, 0.2, 0.4, 0.6</td>
</tr>
<tr>
<td></td>
<td>ST</td>
<td>0.04, 0.1, 0.2, 0.4</td>
</tr>
<tr>
<td>Hydrophobic membranes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steridyne® PVDF</td>
<td>VMV</td>
<td>0.2</td>
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<tr>
<td></td>
<td>VTV</td>
<td>0.2</td>
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<tr>
<td>Ultradyne® PVD</td>
<td>TA</td>
<td>0.2</td>
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<tr>
<td></td>
<td>TT</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td>TM</td>
<td>0.1, 0.2, 0.4</td>
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<tr>
<td>Microfiber media</td>
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<td></td>
</tr>
<tr>
<td>ALpHA® PP</td>
<td>MF</td>
<td>0.6, 0.8, 1.2, 2.4, 5, 7, 10</td>
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<tr>
<td>ALpHA® G polyester</td>
<td>MG</td>
<td>0.6, 1.2, 2.4, 5, 7, 10, 20</td>
</tr>
</tbody>
</table>

*GA option is available only for ALpHA® G, STyLUX®, SteriLUX®, and Steridyne® capsule filters.*

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