

MKL Series Filter Capsules (Mini Capsule)

Versatile Small Capsule filter

PureFlo® MKL Series capsules were designed for small-scale filtration, clarification, and filling applications in the pharmaceutical, biotechnology, food and beverage, medical, chemical, water industries worldwide. This family of products is particularly suitable for scale-up testing where a full size capsule or cartridge would be excessive. They are also very suitable for disposable Bio-bag applications.

The MKL capsules have a compact design that can incorporate 200, 300, 400 or 500 cm² of filtration material to meet the needs of different applications. We are currently offering nine different media options with 15 different fitting options. The different possible materials of construction can provides excellent compatibility with a wide-range of chemicals such as acids, bases and solvents. No adhesives , binders, or surfactants are used in the manufacturing process. All units are thermally-sealed and 100% integrity tested.



Applications

Low flow	Ink
Lab scale testing	Beverages
Bio Bags	Pharmaceuticals
Fine Chemicals	Biologics
Vent Filter	Scale up processing
Water	Small volume

Specifications

Materials of Construction:	Media: Polypropylene, Nylon, PTFE, Polyethylene, Glass Fiber, and PES Media Supports: Polypropylene or Polyester Cage, Core, End Caps: Polypropylene or Polyethylene Sealing: Thermally-welded
Fitting Connections:	See ordering guide for the availability. Any inlet/outlet combinations. (Custom adaptors available upon request)
Nominal Dimensions:	Lengths: 3.9 in. (99mm) Diameter: 2.3 in. (60 mm)
Available Ratings:	0.04um to 70um (see Ordering Guide)
Operating Conditions:	Maximum Operating Pressure: Liquid: 5.5 bar (80psi) at 77°F/25°C Gas: 4.1 bar (60psi) at 77°F/25°C Maximum Forward Differential Pressure: 5.0 bar (72 psid) at 68°F/20°C Maximum Reverse Differential Pressure: 2.1 bar (30 psid) at 176°F/80°C Maximum Operating Temperature: PP & Gamma PP: 176°F/80°C HDPE: 140°F/60°C Minimum Burst Pressure: 8.3 bar (120 psid) at 77°F/25°C
Sterilization:	The filters can be sterilized by autoclaving for up to 25 cycles at 125°C (250°F) for 30 minutes, except for PE membrane. The filters can also be sanitized by hot water or common chemicals that are compatible with polypropylene.
Regulatory Compliance:	The filters are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastic. (Except Blk PP)



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