

1" Polyethersulfone Membrane Capsule Filter Type DKL for Lab Water Systems

Polyethersulfone Membrane Capsule Filter Type DKL

mdi Polyethersulfone (PES) membrane capsule filters type DKL are sterilizing grade, disposable filtration devices. These are specially designed for use for end point filtration in laboratory water systems. These filters can be readily fitted and used.

Absolute retention with large filtration area are characteristic features of these capsule filters.

In addition to their use at dispensing points, **mdi** PES capsule filters can also be used in a variety of sterilization filtration applications in life sciences research, biopharmaceuticals and healthcare laboratories to filter high value and high protein solutions.

Special Features

- ◆ Absolute retention
- ◆ Low protein binding
- ◆ Compact Design to minimize void volume
- ◆ Heat stable
- ◆ No elastomeric seals
- ◆ Light weight and self supporting
- ◆ Integrity tested and validated

Microbiologically Validated as per ASTM F 838-05

Complies with USFDA 21 CFR 211.72

Meets and Exceeds USFDA 21 CFR 177.1520

Application

- ◆ End point filtration in lab water systems
- ◆ Sterile liquid filtration
- ◆ Formulation development of new protein molecules
- ◆ Aseptic addition to fermentation processes

Material of Construction

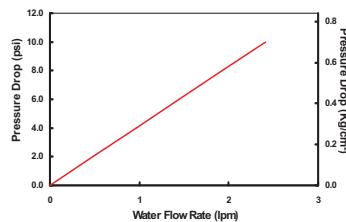
Housing : Polypropylene

Filter Media : Polyethersulfone Membrane

Integrity Test Data (50% IPA)

| Pore Size | psi | Kg/cm ² |
|-----------|------|--------------------|
| 0.2µm | ≥ 16 | 1.12 |

Water Flow Rate



Specification

Maximum Operating Pressure:
4Kg/cm² @ 30 °C

Maximum Operating Temperature:
80 °C @ < 2Kg/cm²

Retention Efficiency:
0.2µm: LRV> 7 for *B. diminuta* (ATCC 19146) per cm² area

Sterilization:
Autoclavable at 125° C for 30 minutes

Biosafety:
Passes the Biological tests for Class VI plastics as per USP <88>

Extractables with Water:
Passes NVR test as per USP <661>

Fiber Release:
Complies with USFDA CFR Title 21, Part 211.72

Oxidizable Matter:
Passes test as per USP <1231>

Ordering Information

| Type | Size | | Pore Size | | Inlet (I)/Outlet (O) Connection | | X | Bell | | Sterility | | Pack Size | | |
|-----------------|--------|------|-----------|--------|---------------------------------|------------------------------|----|------|-----------------|-----------|-------------|-----------|---|----|
| Code | Length | Code | | Code | | Code | | Code | | Code | Qty | Code | | |
| DKL | DKLX | 1" | 51 | 0.2 µm | 01 | | | | | | | | | |
| | | | | | | ¼" SHB | A | | With Bell | B | Non Sterile | 1 | 1 | 01 |
| | | | | | | ¼" MNPT (18 TPI) | B | | Without Bell | X | EO Sterile | 2 | | |
| | | | | | | ¼" BSP (19 TPI) | M | | Bell with Cover | C | | | | |
| | | | | | | ¼" BSP (19 TPI with 'O Ring) | P | | | | | | | |
| Example: | | | | | | | | | | | | | | |
| | DKLX | | 51 | | 01 | | MA | X | | B | | 1 | | 01 |