Life Sciences

USD 2046a

Mini Kleenpak™ capsule with Fluorodyne® II membrane

Description

Pall® Mini **Kleenpak** capsules with **Fluorodyne** II membrane are designed for applications where the use of a filter with a low surface area is critical, having a surface area of just 200 cm^2. The capsules also have a very low hold-up volume of ≤ 6 mL which makes them especially suited to the filtration of high value/low volume products, for replacement of disc filters and for scale-up and scale-down activities, without having product losses during filtration.

They contain the **Fluorodyne** II PVDF membrane, and are suited to the sterile filtration of products containing low concentration of active ingredients or preservatives.

Key Features

- Low area pleated membrane capsule filter (200 cm^2 (0.22 ft^2) filter area)
- Available presterilized by gamma irradiation or suitable for autoclaving (see Ordering Information table on reverse)
- Very low hold-up volume - typically ≤ 6 mL
- **Fluorodyne** II membrane with a very high transmission of proteins and preservatives
- A choice of two sterilizing grades: DFL and DJL (0.2 and 0.1 µm) with **Fluorodyne** II membrane for maximum flexibility and enhanced sterility assurance
- **Fluorodyne** II grade DJL filters with integral prefiltration layer for long service life
- Fully integrity testable using the forward flow test

High Quality Standards

- Validated with *Brevundimonas diminuta* (ATCC 19146) at a challenge level of 10^7 organisms/cm^2 filter area
- 100% integrity tested during manufacturing
- Integrity test (forward flow) correlated to removal efficiency
- Manufactured under clean conditions in a controlled environment
- Each filter supplied with a Certificate of Test
- Comprehensive validation guide available

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Materials of Construction

Membrane layers	Hydrophilic PVDF
Support and Drainage layers	Polypropylene
Capsule	Polypropylene
Vent	Polypropylene
Sealing Technology	Thermal bonding
Filling Bell ***(not shown in drawing)***	Polycarbonate

Operating Parameters[1]

Max Operating Pressure	4.1 bar (60 psi) at 30°C (86°F)
Max Operating Temperature	80°C (176°F) at 2.1 bar (30 psi)

[1] In compatible fluids which do not soften, swell or adversely affect the filter or its materials of construction.

Sterilization

Autoclave*	3 x 1 hour cycles at 140°C (284°F)
Gamma Irradiation**	Up to 50 kGrays

* For G option only
** Consult Pall for more details

Warning: Pre-sterilized units should not be resterilized.
This product must not be sterilized *in-situ* by passing steam through under pressure. Please consult instruction leaflets for fuller recommendations.

Extractables

< 1 mg in water at 20°C (68°F) for non-irradiated filter

≤ 5 mg in water at 20°C (68°F) for gamma irradiated filter

Typical Effective Filtration Area

200 cm² (0.22 ft²)

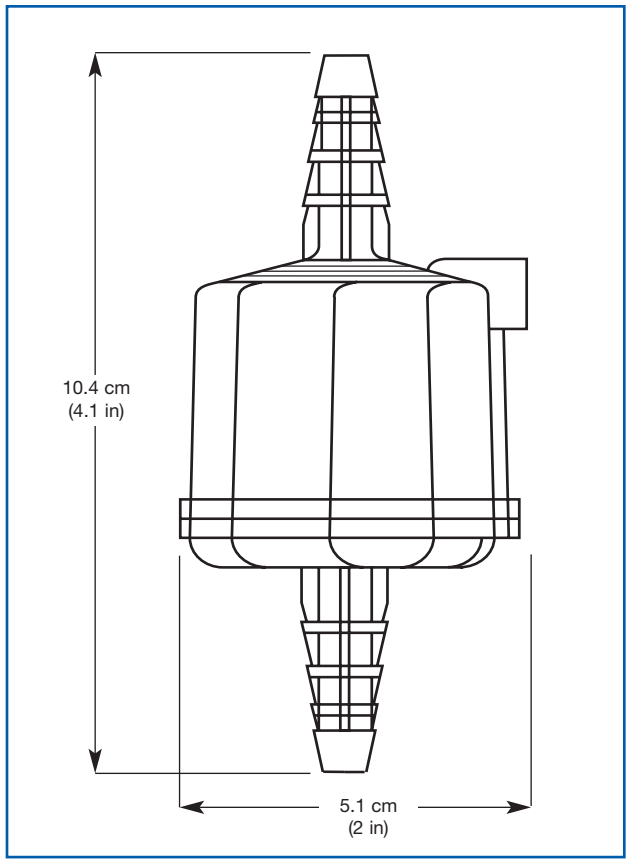
Ordering Information

Part Number***	Grade	Description
KA02DFLP2G	0.2 µm	Non-sterile with filling bell****
KA02DFLP2S	0.2 µm	Pre-sterilized with filling bell****
KA02DJLP2G	0.1 µm	Non-sterile with filling bell****
KA02DJLP2S	0.1 µm	Pre-sterilized with filling bell****

*** Part number represents one box containing 3 Mini **Kleenpak** filters.
****The filling bell can be removed easily.

1 bar = 100 KPa

Dimensions



Typical Flow Rates[2]

DFL	225 mL/min at 100 mbar (1.4 psi) differential pressure
DJL	100 mL/min at 100 mbar (1.4 psi) differential pressure

[2] For fluids at 1cP viscosity. For other viscosities, divide flow rate by viscosity in cP.

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