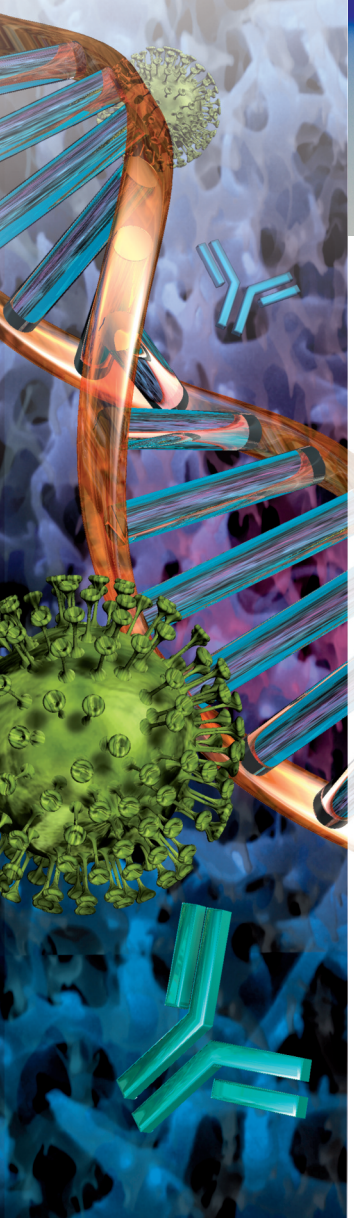
PALL Life Sciences

USD 2772

Mini Kleenpak™ Capsules with Fluorodyne® EX Grade EDT Membrane



Unrivalled Mycoplasma Control with Superior Value

Fluorodyne EX Grade EDT Membrane Filtration Technology

Mini Kleenpak capsules with Fluorodyne EX Grade EDT membrane are high capacity, 0.1 micron rated sterilizing grade filters, suitable for filter-sizing studies or the processing of small volumes (up to 30L) of pharmaceutical GMP process streams.

Applications / Use

- Qualifying filter membrane performance on the bench before committment to a full-scale manufacturing process
- Filtration of cell culture media
- Enhanced sterile filtration of biological fluids

Benefit from using Mini Kleenpak capsules with Fluorodyne EX EDT membrane in your process

- **Superior value** – An asymmetric, high capacity Mach*V* polyethersulfone (PES) membrane combined with twin polyvinylidene fluoride (PVDF) membrane layers downstream ensures excellent throughput performance.
- **Economical scale-up** – For large production volumes, scale up from Mini Kleenpak capsules to high-area AB-style filter cartridges and Kleenpak Nova filter capsules. These high area formats feature a unique, Pall-patented laid over pleat membrane pleating construction coupled with a narrow core design for maximum throughput capacity and rapid fluid processing when effective time and cost control is paramount.
- **Safety** – Validated for the removal of *Brevundimonas diminuta* (ATCC♦ 19146) and *Acholeplasma laidlawii* (ATCC♦ 23206) (see removal ratings on reverse). They assure maximum safety in criticial sterilizing filtration applications where there is also a need for mycoplasma control.

Filtration. Separation. Solution.SM

Specifications

Materials of Construction

Filter Membrane	Prefilter layer: Single layer hydrophilic asymmetric PES
	Final filter layers: Dual layer hydrophilic PVDF
Support/Drainage	Polypropylene
Capsule Shell	Polypropylene
Core and Endcaps	Polypropylene
Filling Bell	Polycarbonate
Sealing Technology	Thermal bonding without adhesives

Operating Parameters[1]

Maximum Operating Temperature	40 °C
Maximum Operating Pressure	4.1 bar (60 psi) at 38 °C

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

Sterilization Conditions[2]

Autoclavable 'G' option	3 x 30 minutes up to 135 °C
Gamma-irradiatable 'G' option	Maximum of 50 kGy

[2] • *Pre-sterilized 'S' option Mini Kleenpak capsules must not be re-sterilized.*
• *Mini Kleenpak capsules must not be sterilized in-situ by passing steam under pressure*

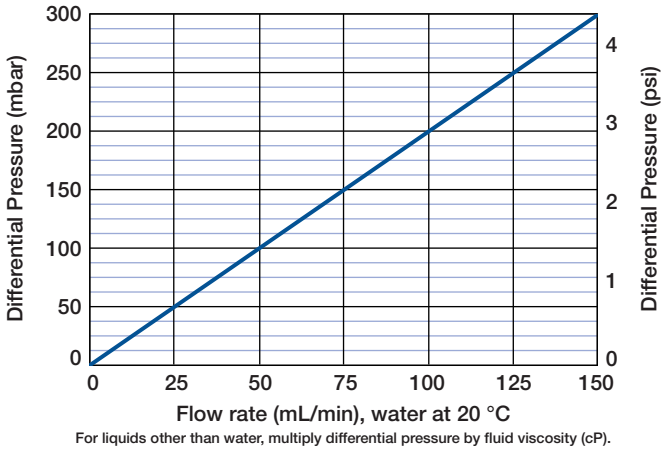
Typical Extractables in Water at 20 °C

< 5 mg NVR

Nominal Dimensions

Maximum Diameter Including valves	68 mm (2.7 in.)
Length – Code 2	105 mm (4.1 in.)
Length – Code 8	73 mm (2.9 in.)

Typical Liquid Flow vs. Differential Pressure



For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Nominal Effective Filter Area (EFA)

200 cm^2 (0.22 ft^2)

Removal Rating[3]

0.1 µm sterilizing grade

Sterile effluent when challenged with $10^7/cm^2$ Brevundimonas diminuta. Zero recovery for Acholeplasma laidlawii when challenged with 2 x 10^9 organisms per capsule ($10^7/cm^2$) consistent with the titer reduction claim for this organism of > 10^{10} for the AB style and Kleenpak Nova configurations. Please contact Pall for integrity test values.

Ordering Information[4]

Pall Part Number: KA02EDTP ☐ ☐

Code	Connection Options	Code	Shipping Format
2	¼ – ½ in. (6 – 13 mm) hosebarb	G	Non-sterile gamma irradiatable/ autoclavable
8	½ – ¾ in. (13 – 19 mm) sanitary flange	S[5]	Pre-sterilized using gamma irradiation

[4] *3 filters per box*
[5] *'S' option with Code 2 connection is provided with filling bell on outlet. It is removable for in-line use*

machV TECHNOLOGY

UpScale ScaleUp

PALL Life Sciences

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The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.

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