



## Mini Kleenpak™ capsules with Supor® EAV membrane



### Advanced Filtration Technology for Bioburden Control

#### Supor Grade EAV Membrane Filtration Technology

Pall Mini Kleenpak capsules with Supor EAV membrane are high capacity, high flow rate filters ideally suitable for filter-sizing studies or the processing of small volumes of pharmaceutical GMP process streams.

#### Applications

- ▶ Bioburden control of chromatography and ultrafiltration buffers
- ▶ Prefiltration and/or bioburden control of biological or protein solutions
- ▶ Bioburden reduction prior to sterilizing filtration on aseptic filling lines

#### Benefit from using Mini Kleenpak capsules with Supor EAV membrane in your process

- ▶ **Superior value** – An asymmetric, high capacity MachV polyethersulfone (PES) membrane ensures maximum flow and throughput performance for smaller, more cost-effective filtration systems.
- ▶ **Economical scale-up** – For large production volumes, scale up from Mini Kleenpak capsules to high-area AB-style cartridges and Kleenpak Nova capsule filters. These formats feature a unique, Pall-patented Ultipleat® cartridge pleating construction coupled with a narrow core design for the highest flow rates and rapid fluid processing when effective time and cost control is paramount.
- ▶ **Safety** – Validated for the retention of *Brevundimonas diminuta* (ATCC® 19146) with a typical titer reduction of 10<sup>8</sup> T<sub>r</sub> (6 LRV), they assure safety in applications where an absolute sterility claim is not essential.

Filtration. Separation. Solution.<sup>SM</sup>

## Specifications

### Materials of Construction

Filter Membrane	Hydrophilic asymmetric PES
Support/Drainage	Polypropylene non-woven
Capsule Shell	Polypropylene
Core and Endcaps	Polypropylene
Filling Bell	Polycarbonate
Sealing Technology	Thermal bonding without adhesives

### Operating Parameters<sup>(1)</sup>

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

<sup>(1)</sup> In compatible fluids which do not soften, swell or adversely affect the filter or its materials of construction

### Sterilization<sup>(2)</sup>

Autoclave 'G' option	3 x 30 minutes at 135 °C
Gamma Irradiation 'G' option	Maximum of 50 kGy

<sup>(2)</sup> • Pre-sterilized 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

< 2 mg per filter capsule

### Nominal Dimensions

Maximum Diameter Including Valves	53 mm (2.1 in.)
Length - Code 2	105 mm (4.1 in.)
Length - Code 8	73 mm (2.9 in.)

## Ordering Information<sup>(4)</sup>

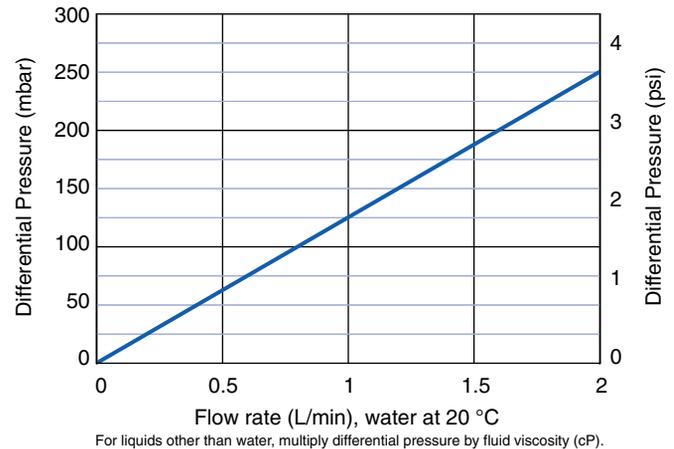
Pall Part Number: KA02EAVP

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

<sup>(4)</sup> 3 filters per box

<sup>(5)</sup> 'S' option with Code 2 connection is provided with filling bell on outlet. It is removable for in-line use

## Typical Liquid Flow vs. Differential Pressure



### Nominal Effective Filter Area (EFA)

260 cm<sup>2</sup> (0.28 ft<sup>2</sup>)

### Removal Rating<sup>(3)</sup>

0.2 µm Nominal

<sup>(3)</sup> Validated filter reduction of *B. diminuta* at 10<sup>8</sup> T<sub>R</sub> (6 LRV), correlated to an integrity test value. Please contact Pall for further information.



Life Sciences

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