



**Kleenpak™ Capsules with Supor® EAV Membrane**

### Description

Pall Supor® EAV filters are designed for effective bioburden and particle control. The Pall-patented Supor machV membrane incorporated in these filters ensures high throughputs and flow rates when utilized for the protection of buffers and biological process fluids.

Supor EAV filters allow for reduced sizing of filter systems with improved process efficiencies when use of validated sterilizing grade filters is not essential, but reliable bioburden control is. Supor EAV filters are also effective prefilters for protection and extended life of 0.2 µm sterilizing grade and finer membrane filters where required.

Pall Kleenpak™ capsules are rugged and compact filter capsules available with a broad range of filter media and in 4 different sized formats designed for a variety of small to large scale pharmaceutical manufacturing applications with volumes of 30 L to 1000 L.

### Features and Benefits of Supor EAV Filters

- Hydrophilic, controlled asymmetric polyethersulfone (PES) membrane ensures high microbial and particulate reduction with outstanding service life
- Bacterial titer reduction in excess of 6 log for *Brevundimonas diminuta* ensures low bioburden levels in filtrate regardless of bacterial loading
- Broad pH compatibility for processing a wide range of buffers and other fluids
- Kleenpak™ capsule format eliminates housing cleaning and associated validation, for ease of use and integration into single use disposable systems
- Low binding polyethersulfone membrane for maximum transmission of proteins

### Quality Standards

- 100% integrity tested
- Manufactured for use in conformance with cGMP
- Each filter is fully traceable by individual marked lot and serial number
- ISO 9001 Certified Quality System
- Meets USP Biological Reactivity Test, in vivo, for Class VI-121 °C Plastics
- Certificate of Test provided includes:
  - Fabrication Integrity
  - Materials of constructions
  - Effluent quality for cleanliness, TOC , water conductivity, pH and pyrogens

### Specifications

## Materials of Construction

Membrane	Hydrophilic polyethersulfone
Support and Drainage Layers	Polypropylene
End Cap, Core and Cage	Polypropylene
Outer Shell	Polypropylene

## Physical Dimensions

Diameter incl. Valves	109 mm (4.2 in.)
Total Length (Code 1)	174 mm (6.8 in.)
Total Length (Code 6)	210 mm (8.3 in.)
Total Length (Code 16)	192 mm (7.5 in.)
Effective Surface Area	0.21 m <sup>2</sup> (1.6 ft <sup>2</sup> )

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

Maximum Temperature	40 °C
Maximum Operating Pressure	5.2 bar (75 psi)
Maximum Differential Pressure	4.1 bar (59 psi)

<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	10 cycles x 60 minutes at 125 °C, slow exhaust
Gamma Irradiation	Maximum dose: 50 kGy

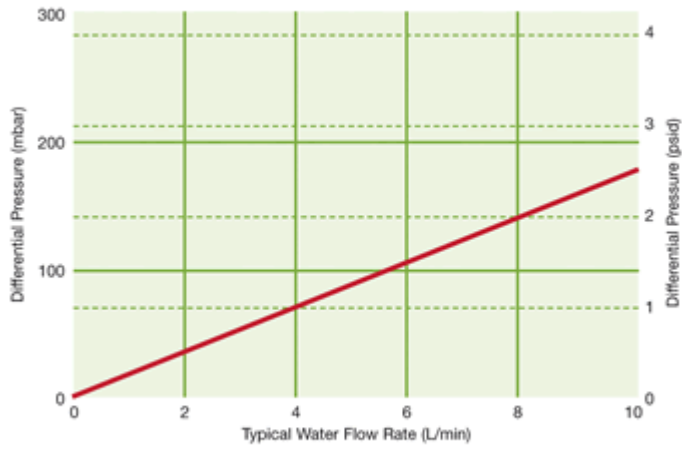
<sup>2</sup> For Code G version only. Membrane has to be wet for autoclave sterilization  
Please refer to service instructions or contact Pall for more details.

## Extractables

Typical Extractables in water at 20 °C	< 10 mg per capsule
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## Typical Liquid Flow vs. Differential Pressure

## Liquid Flow vs. Differential Pressure



## Ordering Information

Part Number: KA  EAVP

Code	Inlet/Outlet Connections	Code	Sterilization Grade
3		G	Non-sterilized version
1	1½ in. "Tri-Clover" compatible	S	Pre-sterilized version
6	13 mm (½ in.) Single hose barb		
16	1½ in. "Tri-Clover" compatible inlet and (½ in.) single hose barb outlet		

<sup>1</sup> This is a guide to the part number structure only. For availability of specific options, please contact Pall or your local Pall distributor.

## Contact Information

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