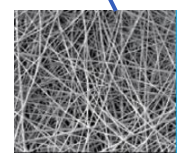


Masterfilter APKV absolute rated cartridges provide absolute efficiency and reliable performance in most critical applications. Constructed from a unique hybrid multilayer of Polypropylene & PVDF nanofiber media, these filters offer high flow rates and optimized graded density, facilitating the removal of a wide range of particles, micro-organisms and colloids. The robust nanofiber media construction gives the filter high porosity and strength enabling these cartridges to perform with consistency and assurance. It combines high dirt holding capacity with long service life and high flow rates. Compared with conventional membrane filters the APKV offers the most cost effective filtration that provides customer process advantages and benefits.

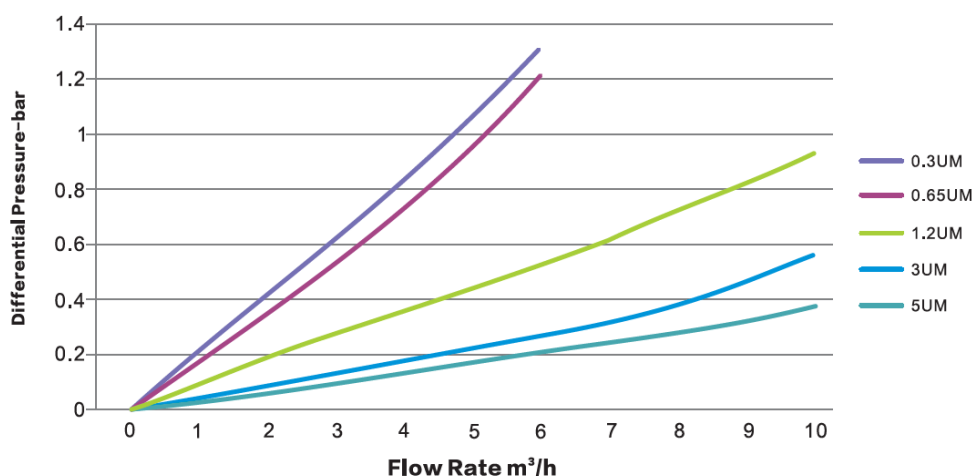
### Features and Benefits

- Real nano-sized fibre filter media, outstanding porosity
- Absolute removal ratings, 99.9% retention efficiency
- Multi-layer and graded density media giving optimized microorganism and colloids retention
- Exceptional turbidity reduction
- High flow rate and high dirt holding capacity
- Washable, long service life
- Hot water sanitizable and steam sterilizable
- Broad chemical compatibility
- All materials used in APKV meet the requirements of FDA 21 CFR, EC N° 1935/2004 and EU10/2011



Scanning electron micrograph (25000 mag)

### Pressure drop and flow rate



## Applications

- Efficient prefiltration of cold-filtered beer
- Clarifying filtration of wine
- Particle and colloids removal in Pharma
- Water Treatment in Pharma and Food & Beverage markets

## Materials of construction

- Filter media: Multilayer Polypropylene  
Nanofiber PVDF
- Inner core: Polypropylene
- End caps: Polypropylene
- Outer cage: Polypropylene
- Outer diameter: 71 mm

## Operating Characteristics

- Max operating temperature: 85-90 °C
- Compatible PH: 1.0 – 14.0
- Max differential pressure forward; 4,2 bar (21°C)
- Max differential pressure reverse: 2,1 bar (21°C)
- Steam sterilizable: 125°C – 20 minutes

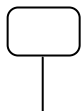
**Effective Filtration Area: 0.68m<sup>2</sup> (7.32ft<sup>2</sup>) /10" (250mm)**

## Microbiological retention ( APKV 0,3 μ - 1,2 μ)

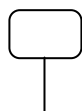
Removal rating from 0,3 μ to 1,2 μ absolute rated provides excellent microbial reduction (Saccharomyces Cerevisiae, Brettanomyces Brucellosis, Yeast and Fungi) from wine, beer and bottled water.

## Ordering Information

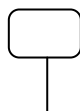
### APKV



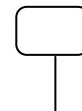
Code	Removal rating micron
<b>0030</b>	0.3
<b>0045</b>	0.45
<b>0065</b>	0.65
<b>0120</b>	1.2
<b>0300</b>	3.0
<b>0500</b>	5.0



Code	Length inch
<b>05</b>	5
<b>10</b>	10
<b>20</b>	20
<b>30</b>	30
<b>40</b>	40



Code	End caps
<b>DOE</b>	Double open end
<b>HTC</b>	222 O-ring/flat (Code 3)
<b>HTF</b>	222 O-ring/fin (Code 8)
<b>HSF</b>	226 O-ring/fin (Code 7)
<b>HSC</b>	226 O-ring/flat (Code 2)



Code	O-Rings
<b>S</b>	Silicone
<b>E</b>	EPDM
<b>V</b>	Viton
<b>T</b>	FEP/Viton
	No O-rings