

Masterfilter APKM series

The Masterfilter *PreFil* APKM series absolute multi-layered polypropylene cartridges combines depth filtration with pleated filter technology, ensuring the removal of large quantity of contaminants.

The APKM construction adopts depth filter technology of graded pore-size increasing the efficiency and avoiding filter surface jam.

Graded pore-size distribution from coarse (upstream) to fine (downstream) can remove particles, colloids and gels gradually and extend filter's service life.

Applications

- Fermentation
- Food and Beverage
- APIs
- Fine Chemicals

Features and Benefits

- High contaminant holding capacity
- Graded pore-size (5 to 7 PP layers) provides excellent flow rate and long service life
- Absolute rating from 0.2 to 70 microns
- Low pressure drop
- 100% PP offers compatibility with most chemicals, solvents caustic and acids

Materials of Construction

- Membrane: Polypropylene
- Support layers: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- O-ring: EPDM, Silicone, Viton

Operating Parameters

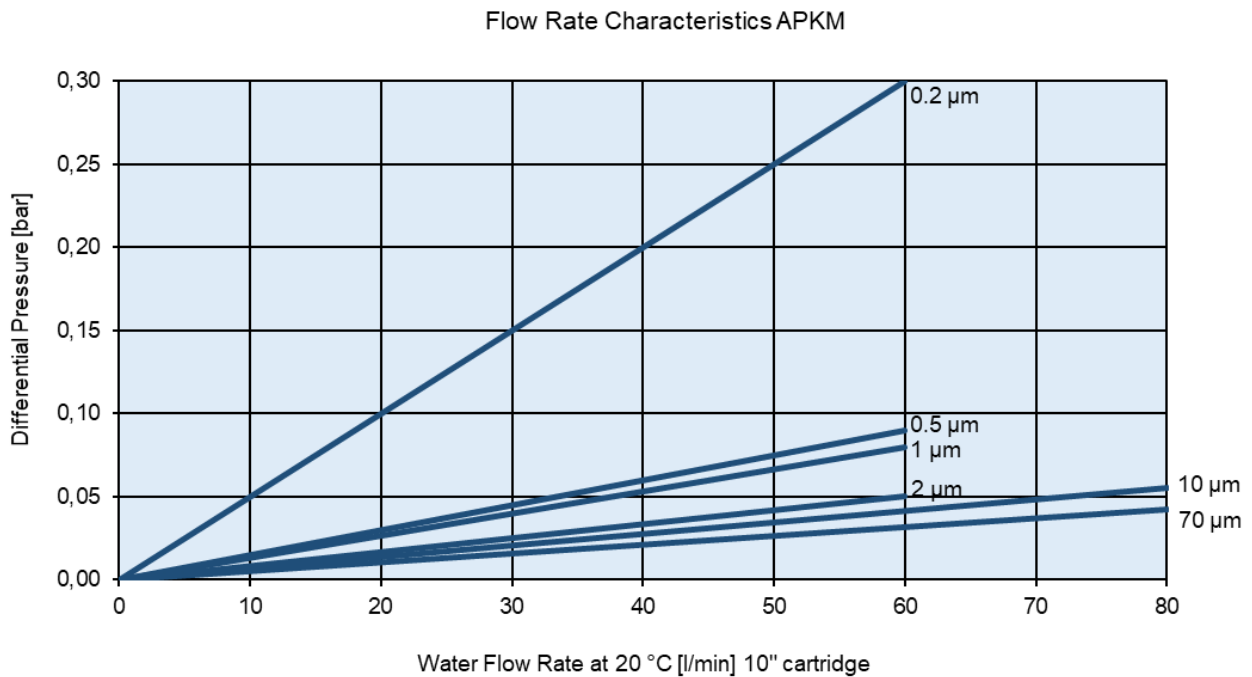
- Max differential pressure: 5.0 bar at 21 °C, 2.0 bar at 80 °C
- Steam sterilisation: up to 20 cycles at 125 °C for 30 minutes (< 0.3 bar, 5 psi)
- Hot water sterilisation: 125 °C for 30 minutes, max. differential pressure 2.0



Food and Biological Standards

- Comply with the relevant requirements of EU 1935/2004 and EU Directive 10/2011
- Comply with FDA 21 CFR177-182 & EU 1935/2004/EC
- Meets USP <88> for Class VI-121°C
- Non-Pyrogenic per USP Bacterial Endotoxin Level (< 0.25 EU/ml)
- Extractable level after 24 hours contact with PW < 20mg/10" module
- Meets FDA21 CFR210.3(B)(6) No Fiber release for filters

Flow Rate Characteristics



Part Numbers

APKM 0100 - 10 - HSF - S

Code	Removal rating [µm]	Code	Length		Code	End caps	Code	O-rings
			[mm]	[inch]				
0020	0.2	05	127	5	DOE	Double Open End	S	Silicone
0050	0.5	10	254	10	HTC	222 O-ring/flat (Code 3)	E	EPDM
0100	1	20	508	20	HTF	222 O-ring/fin (Code 8)	V	Viton
0200	2	30	762	30	HSF	226 O-ring/fin (Code 7)		
0300	3	40	1016	40	HSH	UF retrofit		
0500	5				STC	Sartorius code 28		
1000	10							
2000	20							
4000	40							
7000	70							

e.g. part number: APKM-0100-10-HSF-S

APKM filter with 1 µm, 10" length, Code 7 end caps, Silicone O-rings