PreFil APKM Series Filter

Absolute Multi-layered Polypropylene Cartridge Filter

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

- APIs
- Fine Chemicals
- Fermentation Processes
- Pharmaceutical Water Treatment
- Syrups

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
- Adapter internal support: PBT
- O-ring: EPDM, Silicone, Viton, PTFE encapsulated Viton, PTFE encapsulated Silicone

Operating Parameters

- Max. operating pressure: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80 °C
- Max differential pressure forward: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80 °C
- Max differential pressure reverse: 3.0 bar at 25 °C, 1.0 bar at 80 °C
- Steam sterilisation: up to 20 cycles at 125 °C for 30 minutes (< 0.3 bar, 5 psi)

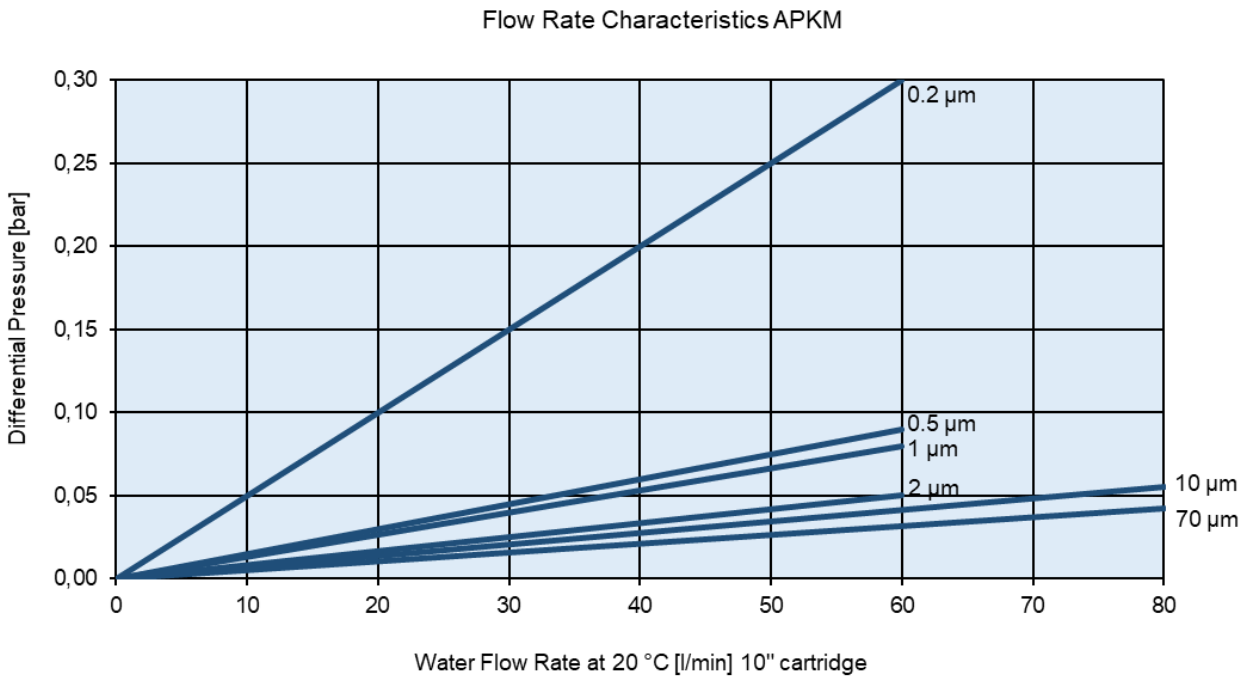
Quality Assurance

- Cartridge can be marked with unique serial number for identification and traceability
- All components meet the criteria for non-fibre releasing as defined in 21 CFR 210.3 (b) (6)
- APKM is manufactured under ISO 9001:2015
- Particle Shedding: Autoclaved filter effluent meets the USP <788> for LVP
- All component materials meet the FDA indirect Food Additive requirements cited in 21 CFR 177-182

Biological Standards

- Bacterial Endotoxin: Aqueous extraction less than 0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL), meeting requirements of USP<85>
- Meets the USP <88> Biological Toxicity Reactivity Test, in Vivo for Class VI-121°C plastics

Flow Rate Characteristics



Part Numbers

APKM	0100	-	10	-	HSF	-	S

Code	Removal rating [µm]
0020	0.2
0050	0.5
0100	1
0200	2
0300	3
0500	5
1000	10
2000	20
4000	40
7000	70

Code	Length [mm]	[inch]
05	127	5
10	254	10
20	508	20
30	762	30
40	1016	40

Code	End caps
DOE	Double Open End
HTC	222 O-ring/flat (Code 3)
HTF	222 O-ring/fin (Code 8)
HSC	226 O-ring/flat (Code 2)
HSF	226 O-ring/fin (Code 7)
HSH	UF retrofit
STC	Sartorius code 28

Code	O-rings
S	Silicone
E	EPDM
V	Viton
P	PTFE encaps. Viton
T	PTFE encaps. Silicone

e.g. part number: APKM0100-10-HSF-S

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