

Masterfilter HPK series

The Masterfilter *PreFil* HPK series nominal rated, high flow pleated polypropylene cartridges are made of all poly-propylene pleated microfiber. These cartridges providing great filtration performance at lower cost. The high flow rate, high dirt capacity and filtration efficiency make it the optimal solution for the pre-filtration of liquids.

Applications

- Beer filtration
- Food and Beverage
- Water purification
- Chemicals
- Pharmaceuticals
- Clarify filtration

Features and Benefits

- All polypropylene construction
- Broad chemical compatibilities
- Pleated surface provides superior flow rate and extended service life
- Available in nominal ratings from 0.1 to 50 microns for a range of precise size removal
- Welded technique eliminates the need for adhesives which can be contaminate source
- Pleated surface provides excellent flow rates

Materials of Construction

- Filter media: Polypropylene
- Support layers: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: SS304/PTB
- End caps inserts: Polypropylene
- O-rings: EPDM, Silicone, Viton



Operating Parameters

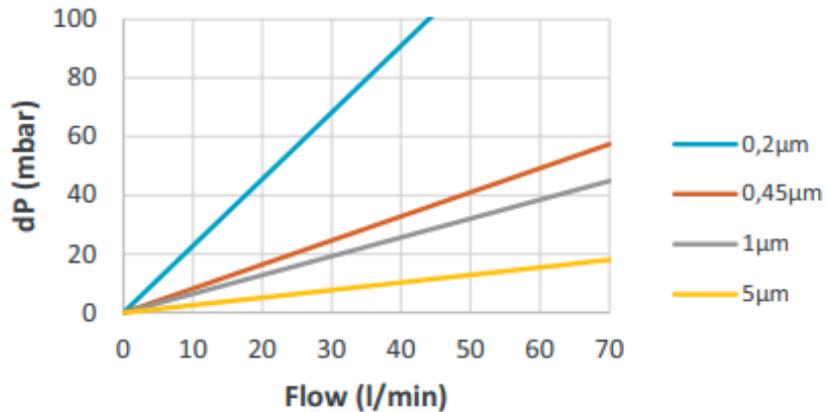
- Max. temperature: 80 °C
- Max. differential pressure: 4 bar at 21°C, 2.4 bar at 80 °C
- Steam sterilisation: 121 °C for 30 minutes
- Hot water sanitisation: 85 °C for 30 minutes
- Extractables: < 30 mg / 10" length
- Endotoxines: < 0.25 EU/ml
- Effective filtration area (EFA): 0.6 m² /10 inch (254mm)

Food and Biological Safety

- Comply with the relevant requirements of EU 1935/2004 and EU directive 10/2011

Flow Rate Characteristics

Flow rate



Note: 10" cartridge tested with water @20°C, 1.005 cP (typical flow rate)

Part Numbers

HPK 0045 - 10 - HSF - S

Code	Removal rating [µm]
0020	0.2
0045	0.45
0100	1
0300	3
0500	5
1000	10
2000	20
5000	50

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

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

Code	O-Ring
S	Silicone
E	EPDM
V	Viton

e.g. part number: HPK-0045-10-HSF-S

High flow HPK filter, 0.45 µm, 10" Length, End caps Code 7, Silicone O-rings