

### Masterfilter PPK series

The Masterfilter *PreFil* PPK series polypropylene high-density pleated cartridges are available in a wide range of pore sizes and provide reliable high performance in many applications. It combines high dirt holding capacity with long service life and high flow rates. 100% polypropylene construction, backwash capability together with graded pore size, make it an economical, high accuracy filter cartridge with absolute removal efficiency.

### Applications

- Pre-filtration
- Food and beverage
- Water purification
- Chemicals
- Pharmaceuticals
- Clarify filtration

### Features and Benefits

- High dirt holding capacity
- Pleated large surface provides high flow rate and long service life
- Rating from 0.6 to 50 microns
- Back washable media extends service life
- 100% PP offers compatibility with most chemicals, solvents caustic and acids
- Pleated surface provides excellent flow rates and low pressure drop

### Materials of Construction

- Filter media: Polypropylene
- Support layers: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- End cap insert: Stainless 304
- O-rings: EPDM, Silicone, Viton, Teflon encapsulated Viton



### Operating Parameters

- Max. operating temperature: 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 for 30 minutes, 1.0 bar at 80 °C for 30 minutes
- Inline steam sterilisation: up to 20 cycles at 125 °C for 30 minutes, differential pressure  $\leq$  0.3 bar
- Hot water sanitisation: 85 °C for 30 minutes
- Effective filtration area: 0.8 m<sup>2</sup>, 10-inch length

## Quality Standards

- Bacterial quantitative retention of  $10^7$  CFU/cm<sup>2</sup> *Brevundimonas Diminatu* (ATCC 19146) according to ASTM F838 methodology
- 100 % Integrity testing in manufacturing
- Each filter is fully traceable with unique serial number
- Manufactured in a facility which adheres to ISO 9000:2015 Practices
- Bacterial endotoxin: Aqueous extraction of autoclaved filter contains < 0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Non-fiber Releasing: Meet criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6)
- Component material toxicity: Meet the requirements of USP <87> In Vitro Cytotoxicity Test, meet the criteria of USP <88> Biological Reactivity Test for class VI-121°C plastics

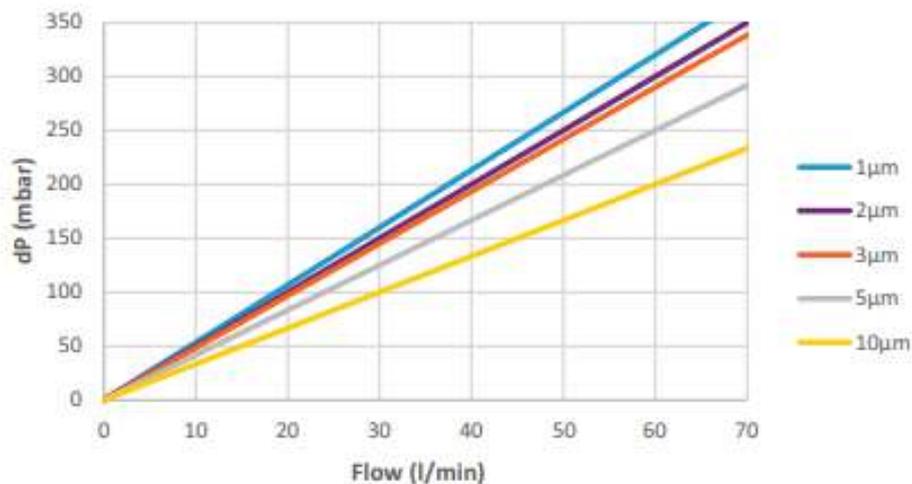
- TOC/Conductivity at 25 °C: Autoclaved filter effluent meet USP <643> for Total Organic Carbon and USP <646> for Water Conductivity per WFI requirements after a UPW flush of specific volume
- Particle shedding: Autoclaved filter effluent meet the USP <788> for large volume injections
- Indirect food additive: All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-183

## Biological Safety

- Extractables: < 30 mg per 10 inches
- Endotoxins: < 0.25 EU/ml

## Flow Rate Characteristics

### Flow rate



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

## Part Numbers

PPK

0060

-

10

HSF

-

S

Code	Removal rating [µm]
0060	0.6
0080	0.8
0100	1
0120	1
0250	2.5
0450	4.5
0500	5
1000	10
2000	20
5000	50

Code	Length	
	[mm]	[inch]
05	133	5
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)
HST	I/S – 15
STZ	P-MCY dh Z
DOE	Double end caps

Code	O-Ring
S	Silicone
E	EPDM
V	Viton
P	Teflon encap. Viton

e.g. part number: PPK-0060-10-HSF-S

PPK filter, 0.6 µm, 10" Length, End caps Code 7, Silicone O-rings

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