

FHFPP High-Flow Capacity PP Pleated Filter Cartridge



The FHFPP High-Flow PP Pleated Filter Cartridge is designed for high-efficiency liquid filtration in industrial pre-filtration and general process. Constructed from 100% polypropylene, the cartridge features a gradient pore structure (from coarse to fine) that maximizes dirt-holding capacity and extends service life. With a large filtration area ($\geq 0.6 \text{ m}^2$ per 10"), the FHFPP series delivers high flow rates with a low pressure drop, significantly reducing the number of cartridges required and lowering system operating costs.

Product Features

- ❖ Gradient Depth Filtration: Multi-layer (5-10 layer) structure traps particles throughout the depth of the filter, preventing surface **from** blinding and offering superior dirt-holding capacity.
- ❖ High Flow & Low Delta-P: The pleated design provides a large filtration area, ensuring high flux and low initial pressure drop for energy-efficient operation.
- ❖ Chemical Resistance: 100% polypropylene construction ensures excellent compatibility with a wide range of acids, alkalis, and organic solvents.
- ❖ Thermal Stability: Suitable for hot water and compatible with steam sterilization (SIP).
- ❖ Pure & Secure: Fully thermally bonded construction eliminates the need for adhesives, preventing media migration and secondary contamination.

Product Parameters

Parameters	Specification			
Length(inch/mm)	10(254)	20(508)	30(762)	40(1016)
Design	Pleated			
Connection	End Caps: 222/226, Fin, Plain, etc.			
Filtration Accuracy (μm)	0.1/0.22/0.45/0.65/1/3/5/10/20/50/100			
Diameter (mm)	Outer Diameter: 62–70 ; Inner Diameter: 28–30			

Filtering Area (m ² /10")	≥0.6
Design Pressure (MPa)	0.4
Maximum Temperature (°C)	80

Applications



New Energy



Water Treatment



Iron and Steel Metallurgy



Food and Beverage



Fine Chemicals



Equipment Manufacturing



Biomedicine



Mining and Smelting

Precautions

Selection & Operation Guide

- ❖ Accuracy Selection:
 - 0.1–1 μm: Fine filtration for sensitive equipment protection.
 - 3–20 μm: General pre-filtration for sediment and rust removal.
 - 50–100 μm: Coarse filtration for high-viscosity liquids or high-sediment water.
- ❖ Flow Direction: Strictly Inside-Out. Do not reverse flow.
- ❖ Sterilization: Compatible with hot water circulation and steam sterilization (121°C).

Maintenance & Replacement

- ❖ Disposable Design: The FHFPP cartridge is designed for single-use or batch-use only.
- ❖ Replacement Criteria:
 - When the pressure differential (ΔP) reaches 0.10–0.15 MPa.
 - At the end of a production cycle or sterilization process.
 - If the flow rate decreases significantly.
- ❖ Pre-Use: It is recommended to flush the cartridge with purified water before installation to remove any loose fibers.

*For specialized applications or customized solutions, please contact FFM Inc. directly.