

FHFPP High-Flow Capacity PP Pleated Filter Cartridge



The FHFPP series high-flow pleated filter cartridge utilizes deep-layer fine polypropylene fiber membrane as the filtration medium. Available in both inside-out and outside-in flow configurations, the stepped filtration structure ensures that all contaminant particles are captured within the filter matrix, making it suitable for a wide range of industrial applications. With a maximum filtration area exceeding 8.5 m² for the 60-inch cartridge and a maximum flow rate of up to 110 m³/h, the FHFPP series significantly reduces the required filter housing size and cartridge count, substantially lowering equipment investment and labor costs while simplifying operation.

Product Features

- ❖ Multi-Layer Gradient Filtration: The 5-to-10-layer stepped filtration structure achieves ultra-high filtration efficiency while providing greater dirt-holding capacity.
- ❖ Dual Flow Direction Options: Available in both inside-out and outside-in flow configurations to accommodate various system designs and application requirements.
- ❖ Reinforced Core Structure: Offered in both integrated core and reinforced integrated core configurations, customizable to optimize mechanical strength and pressure resistance.
- ❖ Broad Filtration Precision Range: Available in precision ratings from 1 µm to 100 µm to meet diverse filtration requirements.
- ❖ Customizable Lengths: Length options from 20 to 60 inches, with a full range of models and support for custom processing to meet various application needs.
- ❖ Pure & Secure: Fully thermally bonded construction eliminates the need for adhesives, preventing media migration and secondary contamination.

Product Parameters

Parameters	Specification		
Length(inch/mm)	20(508)	40(1016)	60(1524)
Filtrating Area (m ²)	3.3	6.5	8.5

Design Flow Rate (m ³ /h)	15	30	45
Maximum Flow Rate (m ³ /h)	40	80	110
Design	Pleated		
Connection	Type M、P、K, etc.		
Filtration Accuracy (μm)	1、3、5、10、15、25、40、50、70、90、100		
Diameter (mm)	Outer Diameter: 157		
Maximum Operating Pressure (MPa)	0.38@20°C		
Replacement Differential Pressure (MPa)	0.15@20°C		
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

When selecting FHFPP series high-flow pleated filter cartridges, consider the following:

Filtration Rating & Material

- ❖ Filtration ratings range from 1 μm to 100 μm. Select based on the type of contaminants to be removed (sediment, rust, or microorganisms).
- ❖ Thermally bonded, adhesive-free construction is recommended to prevent secondary contamination.

Compatibility & Dimensions

- ❖ Ensure proper matching of cartridge length (20, 40, or 60 inches) and connection type. Universal models offer broader compatibility.

Maintenance & Replacement

Replacement Cycle

- ❖ For pre-filtration applications, replacement every 3–6 months is recommended. In cases of poor water quality (high



Product Data Sheet-High-Flow Filter Cartridges

Core Filtration, Clear Solutions

sediment content), shorten the interval to 1–3 months.

Installation & Maintenance

- ❖ Flush the cartridge with purified water before installation.
- ❖ Regularly inspect seals and gaskets for proper sealing.
- ❖ Do not use with highly corrosive liquids (e.g., concentrated nitric acid). Maximum operating temperature: 80°C.

Water Quality Adaptation

- ❖ For systems with aging pipelines or high sediment content, consider using a higher precision cartridge to enhance particle removal.

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