PFP-L

particle removal
large diameter
PP filters

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Product description

Introduction

PFP-L filters provide reliable and efficient filtration for high flow applications and have an extended service life thanks to its outstanding dirt holding capacity.

Its filter media consist of pleated multilayers of melt blown PP fiber with support layers integrated into a robust cage with support layers integrated into a robust cage with reinforced core and end cap.

Devices

PFP-L filters are available in a wide range of scalable high flow cartridges that allow for fast and easy scale-up of your production. From laboratory-scale filters to production-scale assemblies, all filters incorporate the same media and identical materials of construction, eliminating the need to requalify filter units as processes are scaled up.

Compatibility

PFP-L filters are completely made from polypropylene utilizing thermal welding techniques to seal all the components thus optimizing device integrity, thus assuring a broad chemical compatibility with a large number of solvents, acids and bases. Polypropylene is a highly chemically resistant material, enabling the filters to be chemically regenerated. The all polypropylene construction guarantees a small extractable footprint.

Documentation

PFP-L filters are designed, developed and manufactured in accordance with a ISO 9001 certified Quality Management System.

All the raw materials used comply with the European Union Regulation (EC) No. 1935/2004 as well as the Regulation (EU) No. 10/2011. concerning plastic materials and articles intended to come into contact with foodstuffs. These guidelines for plastics allow the use in food and beverage applications. All materials used meet the requirements of the CFR title 21.

Key features

- High flow and low pressure drop
- Wide chemical compatibility
- Non fiber releasing
- High dust holding capacity

Applications

Thanks to its chemical compatibility PFP-L filters are widely used in Food & Beverage, Pharmaceutical, Cosmetics and Chemical Industries.

- Clarification of beer, wine, cider, bottled water, brine, syrup, etc.
- Filtration of potable, RO, cleaning, process and product water.
- Seawater desalinization.

Protecting process, products and people

Atlas Copco's process filters optimize your productivity while protecting your process, product and consumers. Our portfolio of cartridges and housings covers all your filtration needs. The products are made from proven, high quality materials from reputable suppliers and manufactured in a controlled environment subjected to strict QA/QC procedures.

Technical data

Micron ratings (µm)
1/3/5/10/20/40 µm

Cartridge length
20"/40"/60"

Cartridge diameter
165.5mm

Material of construction

Filter media	Polypropylene
Core	Polypropylene
Cage	Polypropylene
End caps	Polypropylene
Seal	Silicone, Viton, EPDM

Maximum operating temperature
85°C

Maximum differential pressure forward (cartridges)
4.0 bar

Maximum differential pressure reverse (cartridges)
2.5 bar

Regulatory compliance

Biosafety

Meets criteria of USP <88> Biological Reactivity Test for class VI-121°C plastics.

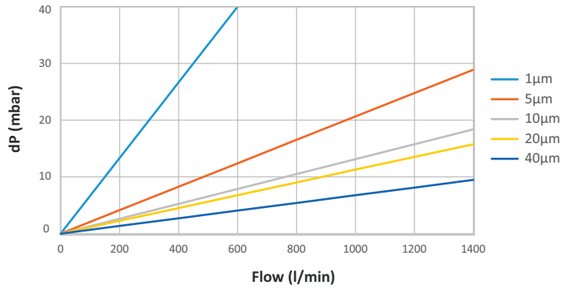
Indirect food additive

The product complies with food contact regulation 21 CFR §177 - 182 and (EC) No 1935/2004 and subsequent amendments.

Quality assurance

For each filter cartridge an electronic Certificate of Conformity is available, detailing relevant test data, biological safety information and product approvals against the specific batch number and part number for the filter. The filter cartridges are manufactured in a controlled clean room environment that generally meets the requirements for ISO 14644-1 Class 8 Cleanrooms.

Flow rate



Note: 40" cartridge tested with water @20°C, 1,005 cP (typical flow rate)

Product configuration

Cartridges

Series	Rating (µm)	Length	End cap	Seal
PFP-L	0,5	20"	N (Single O ring)	S (Silicone)
	1	40"		E (EPDM)
	3	60"		V (Viton)
	5			
	10			
	20			
	40			
	70			
	90			

Example PFP-L 3um 20" N S

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