

Atlas Copco



**PBP-L**  
high flow particle  
removal filters

# PBP-L high flow particle removal filters

## Product description

### Introduction

PBP-L melt blown filters provide reliable and efficient filtration for high flow applications. Its filter media is made up of thermally bonded fibers creating a multi density filtration matrix with torturous paths to trap particulate. The carefully controlled manufacturing process results in a high retention efficiency filter cartridge. This ensures effective depth filtration and making it suitable for nearly all operation and service conditions. The centre core adds strength and integrity to filter cartridge.

### Devices

PBP-L filters are available in a wide range of scalable 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

The PBP-L filter series are made from 100% polypropylene ensuring wide compatibility with a range of fluids and suitable for applications such as pre filtration in water and other liquids and a broad chemical compatibility with a large number of solvents, acids and bases. Due to the materials used, this provides compliance and suitability in food production and pharmaceutical uses, meeting the major regulations controlling contact materials.

### Documentation

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

All the 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

- Wide range of ratings
- Absolute rated retention
- High flow and low-pressure drop
- Wide chemical compatibility

### Applications

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

- Retention of particles in liquids
- Pre-filtration for final membrane filters
- Cooling water and system protection



## Technical data

### Micron ratings (µm)

5/10/20/40 µm

### Cartridge length

20"/40"/60"

### Cartridge diameter

160 mm

### Material of construction

Filter media	Polypropylene
Core	Polypropylene
End caps	Polypropylene

### Maximum operating temperature

82°C

### Maximum differential pressure forward (cartridges)

4.0 bar @30c/1.0 bar @ 82c

### Recommended changeout differential pressure

2.4 bar @ 25c

## Regulatory compliance

### Indirect food additive

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

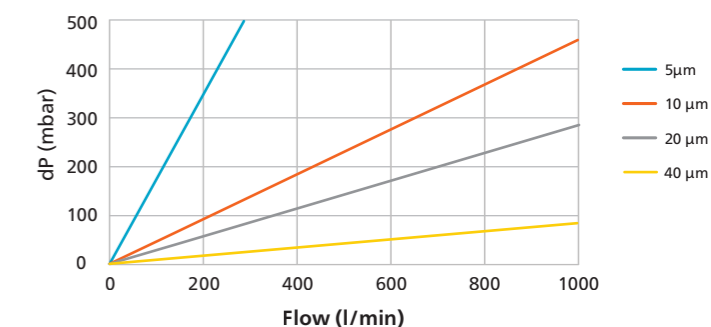
### Quality assurance

For each filter cartridge an electronic Certificate of Conformity is available, detailing relevant information and product approvals against the specific batch number and part number for the filter. The filter cartridges are manufactured in a controlled environment.

### Product purity

All PBP-L series cartridges are free of surfactants, anti static agents, binders and adhesives.

### Flow rate



Note: 40" cartridge tested with water @ 20°C, 1.005 cP (typical flow rate)

## 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.

# Product configuration

## Cartridges

Series	Rating ( $\mu\text{m}$ )	Core	Length	End cap
PBP-L	5	W	20"	DOE
	10	SS	30"	
	20		40"	
	40			

Example: PBP-L W 5 $\mu\text{m}$  40" DOE

