

**Depth Filtration**  
**BECO PROTECT® PB**

**Depth Filter Cartridges**

BECO PROTECT PB depth filter cartridges consist of thermally bonded, melt-blown polypropylene filter material that gives them a high chemical resistance and added dirt holding capacities.

The physical strength of the BECO PROTECT PB depth filter cartridges is such that no cages and cores are required. They are available with retention ratings between 0.5 µm and 25 µm and are ideal for meeting the coarse pre-filtration requirements of process water in the food industry.

**Features and Benefits**

- High dirt holding capacity
- Low differential pressure
- High chemical resistance
- Pressure surge resistance
- Long service life

**Configuration**

BECO PROTECT PB depth filter cartridges are made from high-quality, melt-blown polypropylene micro-fibers and have a broad chemical compatibility. All materials used ensure product-neutral filtration without adsorption or particle migration.



**Materials**

<b>Filter material:</b>	Polypropylene micro-fibers
<b>End caps:</b>	Polyethylene

The plastic components meet the requirements of Directive 10/2011/EC and amendments. All materials used meet the FDA requirements according to 21 CFR § 177.1520.

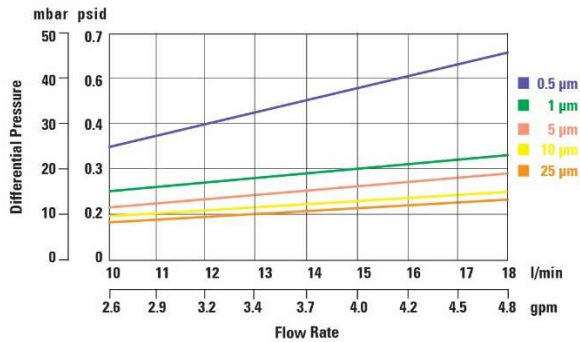
## Technical Data

Nominal length for Code F, X	
9 = 9 ¾"	(248 mm)
1 = 10"	(254 mm)
7 = 19 ½"	(500 mm)
2 = 20"	(508 mm)
8 = 29 ½"	(750 mm)
3 = 30"	(762 mm)
6 = 39"	(992 mm)
4 = 40"	(1016 mm)

<b>Diameter:</b>	2.48 in (63 mm)
<b>Inside diameter:</b>	1.18 in (28 mm)
<b>Maximum operating temperature:</b>	149 °F (65 °C)
<b>Maximum differential pressure in flow direction:</b>	46.4 psid (320 kPa, 3.2 bar) at 68 °F (20 °C) 17.4 psid (120 kPa, 1.2 bar) at 140 °F (60 °C)

## Flow Rate

10" (250 mm) element with water at 68 °F (20 °C)  
(standard values)

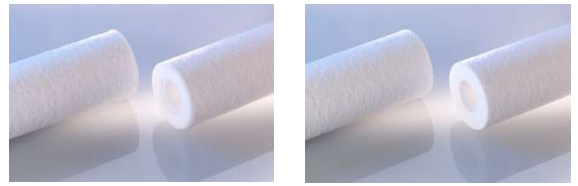


## Filter Cartridges Types/Nominal Retention Ratings

Type	Retention rating (μm)
PB005	0.5
PB010	1.0
PB050	5.0
PB100	10.0
PB250	25.0

## Adapter Codes

Code F	Code X
Double open end (DOE) with two flat gaskets	Double open end (DOE) without end caps



## Ordering Information

BECO PROTECT PB depth filter cartridges with protective foil in carton.

Type	Retention rating	Adapter	Nominal length	Packaging unit
PB	005 = 0.5 µm	F = Code F (DOE), with PE gasket	1 = 10" (250 mm)	6
	010 = 1.0 µm	X = Code X (DOE), without end caps	2 = 20" (500 mm)	
	050 = 5.0 µm		3 = 30" (750 mm)	
	100 = 10.0 µm		4 = 40" (1000 mm)	
	250 = 25.0 µm			

### Example

PB	005	F	1	6
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BECO PROTECT PB depth filter cartridges; 0.5 µm retention rating; Code F; 10" (250 mm)

### Safety

When used as directed and handled correctly, there are no known unfavorable effects associated with this product. BECO PROTECT PB depth filter cartridges do not require the provision of safety-relevant information.

Storage, handling and transport do not present any environmental and health risks.

### Disposal

BECO PROTECT PB depth filter cartridges should be treated as industrial waste. Any local and other official regulations in relation to the filtered product must be followed.

### Storage

Store filter cartridges in their original packaging and in a dry, odor-free and UV ray protected place.

Use filter cartridges within 60 months after production date.

### Certified Quality

During the production process, BECO PROTECT PB depth filter cartridges are regularly monitored to ensure consistent excellent quality control.

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03-2021

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