

**Depth Filtration**  
**BECO PROTECT® PP Pure**

**Depth Filter Cartridges**

**BECO PROTECT PP Pure depth filter cartridges are designed for pre- and fine filtration of many types of beverages, liquid food, cosmetics, fine chemicals and process water. This filter cartridge provides high flow due to pleated polypropylene filter material.**

**Features and Benefits**

- Large effective filter area through pleated filter material
- High retention for a reliable separation effect,  $\beta$  ratio  $\geq 5000$  or  $\geq 99.98\%$  efficiency for defined particles
- High chemical resistance through use of 100 % polypropylene

**Configuration**

BECO PROTECT PP Pure depth filter cartridges are made from high-quality, pleated polypropylene layers. All materials used help ensure product-neutral filtration without adsorption or particle migration.



**Materials**

<b>Filter material:</b>	Polypropylene
<b>Cage, core</b>	Polypropylene
<b>End cap/adaptor:</b>	Polypropylene, adapter with reinforcing ring
<b>O-rings:</b>	Silicone (standard)

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

## Technical Data

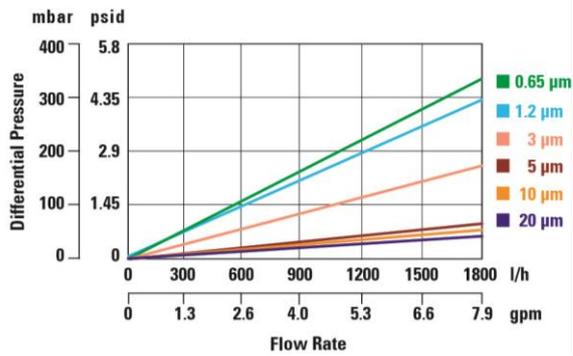
Nominal length for Code F	
1 = 10"	(254 mm)
2 = 20"	(508 mm)

<b>Diameter:</b>	2.75 in (70 mm)
<b>Filter area:</b>	6.46 ft <sup>2</sup> (0.6 m <sup>2</sup> ) / 10"
<b>Max. operating temperature:</b>	176 °F (80 °C)
<b>Maximum differential pressure in flow direction:</b>	72.5 psid (500 kPa, 5.0 bar) at 68 °F (20 °C) 29.0 psid (200 kPa, 2.0 bar) at 176 °F (80 °C) 7.25 psid (50 kPa, 0.5 bar) at 250 °F (121 °C)
<b>Maximum differential pressure against flow direction:</b>	29.0 psid (200 kPa, 2.0 bar) at 68 °F (20 °C)
<b>Hot Water sanitization:</b>	Max. 194 °F (90 °C), 30 minutes
<b>Steam sterilization:</b>	Max. 250 °F (121 °C)
<b>Chemical sterilization:</b>	With conventional chemical cleaners

## Flow Rate

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



## Filter Cartridges Types/Retention Ratings

Type	Retention rating (μm)	Type	Retention rating (μm)
PPPB6	0.6	PPP10	10.0
PPP01	1.2	PPP20	20.0
PPP03	3.0		
PPP05	5.0		

## Adapter Codes

Code 0	Code 2
Single open end (SOE) 2-222 O-ring without spear	Single open end (SOE) 2-222 O-ring triple bayonet adapter with spear



Code 7	Code F
Single open end (SOE) 2-226 O-ring double bayonet adapter with spear	Double open end (DOE) with two flat gaskets



## Ordering Information

BECO PROTECT PP Pure depth filter cartridges with protective foil in carton.

Type	Retention rating	Adapter	Nominal length	Gasket
PPP	B6 = 0.6 µm	F = Code F (DOE)	1 = 10" (250 mm)	S = Silicone
	01 = 1.2 µm	0 = Code 0 (SOE)	2 = 20" (500 mm)	E = EPDM
	03 = 3.0 µm	2 = Code 2 (SOE) *	3 = 30" (750 mm)	V = Fluorelastomer
	05 = 5.0 µm	7 = Code 7 (SOE)	4 = 40" (1,000 mm)	F = FEP encapsulated
	10 = 10.0 µm			
	20 = 20.0 µm			

\* Code 2 can be used instead of Code 5 (2-222 O-ring with spear)

### Example

PPP	B6	7	1	S
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BECO PROTECT PP Pure depth filter cartridges; 0.6 µm retention rating; Code 7, 10" (250 mm); silicone gasket

### Sterilization

#### Steam sterilization

BECO PROTECT PP Pure depth filter cartridges can be steamed or autoclaved at 250 °F (121 °C) max.

Duration: 30 minutes after steam emerges from all openings of the filtration system.

Hot water sanitization or chemical cleaning via CIP with conventional cleaners is also possible.

### Safety

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

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

### Disposal

BECO PROTECT PP Pure 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 PP Pure depth filter cartridges are regularly monitored to ensure consistently excellent quality control.

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