

## 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 provide product-neutral filtration without adsorption or particle migration.



#### Materials

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

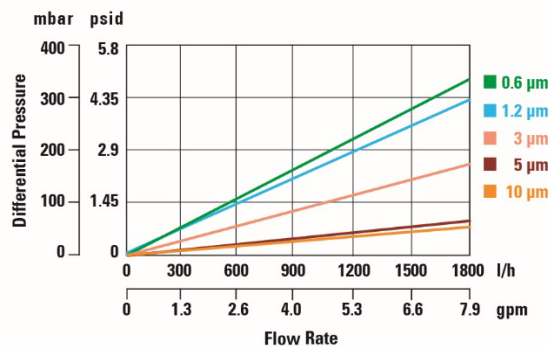
The plastic components meet the requirements of Directive 10/2011/EC and amendments. All materials used meet the FDA (Food and Drug Administration) requirements according to 21 CFR § 177.1520.

## Technical Data

|  |   |
|--|---|
| <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)<br>29.0 psid (200 kPa, 2.0 bar) at 176°F (80°C)<br>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" (250 mm) element with water at 68°F (20°C)  
(standard values)



## Filter Cartridge Types/Retention Ratings

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

## Adapter Codes

| Code 0   | Code 2  |
|--|---|
| Single open end (SOE)<br>2-222 O-ring<br>without spear | Single open end (SOE)<br>2-222 O-ring<br>Triple bayonet adapter<br>with spear |



## Code 7

Single open end (SOE)  
2-226 O-ring  
Double bayonet adapter  
with spear



## 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      | 0 = Code 0 (SOE)* | 1 = 10" (250 mm)   | S = Silicone        |
|      | 01 = 1.2 µm      | 2 = Code 2 (SOE)* | 2 = 20" (500 mm)*  | V = Fluorelastomer* |
|      | 03 = 3.0 µm      | 7 = Code 7 (SOE)  | 3 = 30" (750 mm)   |                     |
|      | 05 = 5.0 µm      |                   | 4 = 40" (1000 mm)* |                     |
|      | 10 = 10.0 µm     |                   |                    |                     |

\* On request

### Example

|     |    |   |   |   |
|-----|----|---|---|---|
| PPP | B6 | 7 | 1 | S |
|-----|----|---|---|---|

BECO PROTECT PP Pure depth filter cartridges; 0.6 µm retention rating; code 7, 10" (250 mm); silicone gasket

## Filter Preparation and Regeneration

Before the first filtration, pre-rinse the filter cartridges with pre-filtered water in the direction of filtration.

After each use, BECO PROTECT PP Pure depth filter cartridges must be rinsed in the direction of filtration with filtered (approx. 1 µm) and softened water under counter pressure.

Note: Detailed information on regeneration can be found in user note 1 A 4.3.7.3.

However, high-proof, alcoholic solutions and products that do not allow for pre-rinsing with water should first be circulated for approx. 10 minutes before filtration can start and be carried out until blockage occurs.

## 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 (Clean In Place) 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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1 A 4.3.7.2  
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