

## Depth Filtration BECO PROTECT® XS Range



### Depth Filter Cartridges

BECO PROTECT XS from Eaton's Begerow Product Line is a depth filter cartridge for liquid filtration with flow from the inside out. This innovation minimizes product loss during type changeover and at the end of production.

The input and output lines of the housing base are turned 180°, so that the housing volume becomes the filtrate chamber. This allows complete and easy draining of the housing.

BECO PROTECT XS depth filter cartridges are used in a variety of applications in the beverage and food industries.

They are particularly suitable for very small quantities and high-quality products.

#### Characteristics and Advantages

The specific advantages of BECO PROTECT XS depth filter cartridges:

- Minimum product loss when draining of the housing
- Approx. 30% longer filter service life through greater fine fleece area
- Improved product filterability
- Ideal for suspended installation because no residue filter is required
- Faster flushing uses up to 30% less rinsing water
- High chemical resistance by using 100% polypropylene

#### Configuration of the Depth Filter Cartridge

BECO PROTECT XS depth filter cartridges are made from high-quality, wrapped polypropylene layers. The filter material has a broad chemical compatibility. The cage and core of polypropylene ensures maximum mechanical stability. All materials used ensure product-neutral filtration without adsorption or particle migration. The BECO PROTECT XS depth filter cartridges therefore meet the requirements of the customer in terms of safe, gentle filtration of his products.



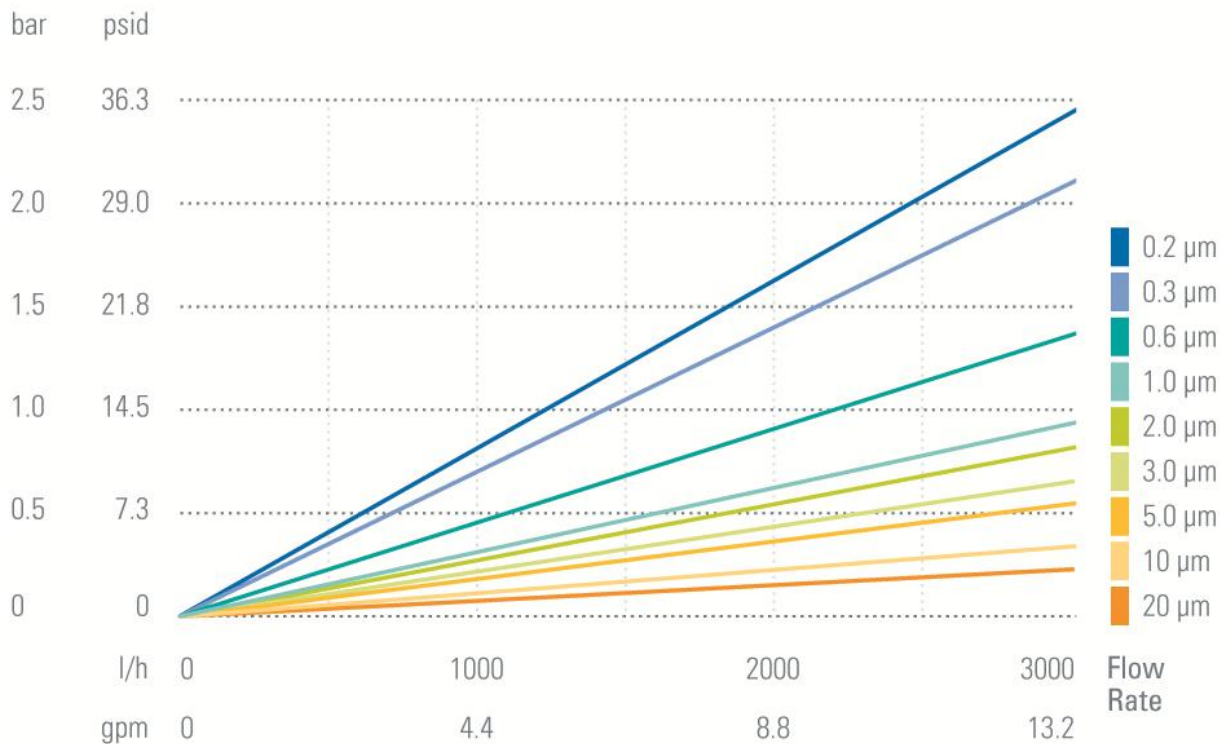
#### Materials used:

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 2002/72/EC and amendments. All materials used meet the FDA requirements according to 21 CFR § 177.1520.

## Flow Rate: 10" Element with Water at 68 °F (20 °C) (Standard Values)

### Differential Pressure



### Filter Cartridges Types/Retention Ratings

High retention ratings for a reliable separation effect,  $\beta$  ratio  $\geq 5000$  or  $\geq 99.98\%$  efficiency for defined particles

Type	Retention rating $\mu\text{m}$	Type	Retention rating $\mu\text{m}$
XS002	0.2 $\mu\text{m}$	XS030	3.0 $\mu\text{m}$
XS003	0.3 $\mu\text{m}$	XS050	5.0 $\mu\text{m}$
XS006	0.6 $\mu\text{m}$	XS100	10.0 $\mu\text{m}$
XS010	1.0 $\mu\text{m}$	XS200	20.0 $\mu\text{m}$
XS020	2.0 $\mu\text{m}$		

### Technical Data

<b>Diameter:</b>	2.75 in (70 mm)
<b>Max. operating temperature:</b>	176 °F (80 °C)
<b>Maximum pressure difference in flow direction:</b>	69 psid (400 kPa, 4.0 bar) at 77 °F (25 °C) 29 psid (200 kPa, 2 bar) at 176 °F (80 °C)
<b>Steam Sterilization:</b>	Max. 14.5 psig (100 kPa, 1 bar) at 250 °F (121 °C); 30 minutes
<b>Chemical sterilization:</b>	Can be sterilized with conventional chemical cleaners

More detailed information regarding regeneration can be found in Note of Application 1 A 4.3.1.1

### Adapter Codes

Code 2	Code 7
Single open end (SOE) 2-222 O-ring triple bayonet adapter with spear	Single open end (SOE) 2-226 O-ring double bayonet adapter with spear



### Safety

When used as directed and handled correctly, there are no known unfavorable effects associated with this product. BECO PROTECT XS 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 XS depth filter cartridges should be treated as industrial waste. Any local and other official regulations in relation to the filtered product must be followed.

**Ordering Information**

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

HS Customs Tariff: 8421 99 00

Type	Retention rating	Adapter	Nominal length	Gasket
XS	002 = 0.2 µm	2 = Code 2 (SOE)	2 = 20" (50 cm)	S = Silicone
	003 = 0.3 µm	7 = Code 7 (SOE)	3 = 30" (75 cm)	
	006 = 0.6 µm		4 = 40" (100 cm)	
	010 = 1.0 µm			
	020 = 2.0 µm			
	030 = 3.0 µm			
	050 = 5.0 µm			
	100 = 10.0 µm			
	200 = 20.0 µm			

**Example:**

XS	006	7	3	S
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BECO PROTECT XS depth filter cartridges; 0.6 µm retention rating; Code 7, 30"; silicone gasket

**Storage**

BECO PROTECT XS depth filter cartridges should be stored in their original packaging and in a dry, odor-free and UV ray protected place.

Use filter cartridges within 24 months of delivery.

**Certified Quality**

During the production process, BECO PROTECT XS depth filter cartridges are monitored constantly to ensure consistently high quality.

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