

Cartridge Filtration

BECO PROTECT XS

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The Innovative Flow Technology Solution



BECO PROTECT XS is the only 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. The housing can now be drained easily and completely.

BECO PROTECT XS series 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 the BECO PROTECT XS product line:

- ▶ 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, since no residue filter is required
- ▶ Faster flushing uses up to 30 % less rinsing water
- ▶ High chemical resistance by using 100 % polypropylene

Technical Data

Diameter:	70 mm
Maximum operating temperature:	80 °C
Maximum differential pressure:	4.0 bar at 25 °C 2.0 bar at 80 °C
Steam sterilization:	Max. 1 bar (121 °C) for 30 minutes
Chemical regeneration/sterilization:	Can be sterilized with conventional chemical cleaners



Filter Types/Retention Rates

Absolute (β ratio ≥ 5000)

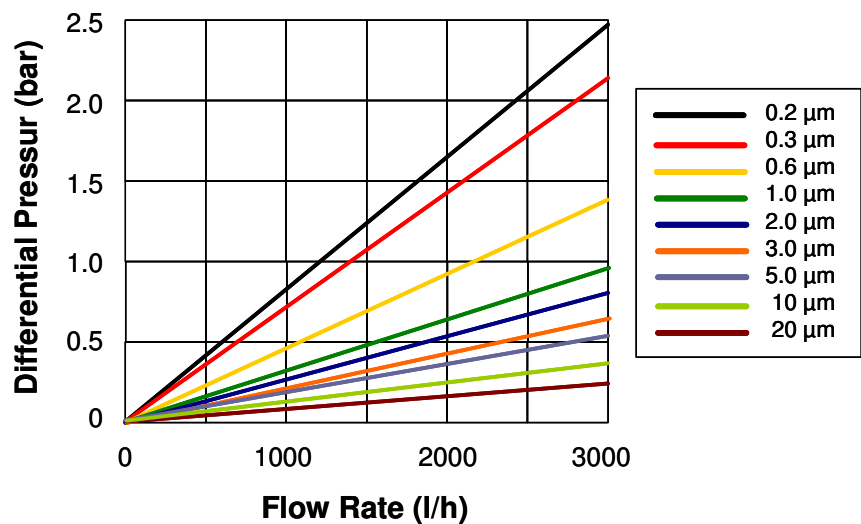
Filter types	Retention rate
XS002	0.2 μm
XS003	0.3 μm
XS006	0.6 μm
XS010	1.0 μm
XS020	2.0 μm
XS030	3.0 μm
XS050	5.0 μm
XS100	10.0 μm
XS200	20.0 μm

Materials Used

Filter material:	Polypropylene
Internal and external support body:	Polypropylene
End caps/adapters:	Polypropylene with reinforcing ring
O-rings:	Silicone (standard)

All materials used meet the FDA requirements according to 21 CFR § 177.1520.

Flow Capacity, 10" Elements with Water at 20 °C (Reference Values)



Ordering Information

Depth filter cartridges wrapped in protective foil packed in cartons

Filter type	Retention rate	Adapter	Nominal length	Gasket
XS	002 = 0.2 µm	2 = Code 2	2 = 20"/ 50 cm	S = Silicone
	003 = 0.3 µm		3 = 30"/ 75 cm	
	006 = 0.6 µm	7 = Code 7	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

0.6 µm retention rate; Code 7; 30"; silicone gasket

Safety

When used and handled correctly, there are no known unfavorable effects associated with this product. No safety specifications are required for BECO PROTECT XS depth filter cartridges. There are no known risks to humans or the environment during storage, handling, and transport.

Disposal

BECO PROTECT XS depth filter cartridges should be handled as industrial waste. However, please note that any local and other official regulations must be complied with, depending on the filtered product.

Adapter Codes

Code 7	Code 2
2-226 O-Ring double quarter-turn adapter with centering tip	2-222 O-Ring triple quarter-turn adapter with centering tip



HS customs tariff no.: 8421 99 00

Storage

BECO PROTECT XS depth filter cartridges should be stored in their original packaging, protected from UV radiation, and in a dry and odor-free place. Never store the product near vapor-emitting chemicals, oils, or fuels etc. The filter cartridges should be used within 2 years after 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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