

Cartridge Filtration

BECO PROTECT FS

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The Innovative Depth Filter Cartridge Solution

FineStream

BECO PROTECT FS FineStream is an innovative depth filter cartridge used to protect downstream membrane filter cartridges.

It is distinguished by its combination of as yet unparalleled depth filter cartridge retention ratings and a unique design that increases the filter area. This synthesis of the finest filter fleece and excellent filtration performance gives the best membrane protection.

The variable flow of the BECO PROTECT FS is also unique. This can be adjusted to flow from outside to inside or, if the inlet and outlet ends on the housing are reversed, from inside to outside. The filtering effect remains the same.

The BECO PROTECT FS is used in the beverage industry.

Characteristics and Advantages

The specific advantages of the BECO PROTECT FS are:

- ▶ Outstanding protection for subsequent membrane filtration thanks to the fine, newly developed filter material, and thus an increased membrane filter cartridge service life
- ▶ The larger filter area gives a greater filter performance
- ▶ Noticeable improvement in filterability (index values)
- ▶ No adsorption and thus no color or flavor loss
- ▶ Variable flow
- ▶ Minimum product loss with flow from inside to outside
- ▶ Backwashable at up to 2 bar at 80 °C
- ▶ High chemical resistance by using 100 % polypropylene

Type of Filter/Retention Rating

Absolute (β ratio > 5000)

Type of filter	Retention rating
FS002	0.2 μ m



Technical Data

Diameter:	70 mm
Maximum operating temperature:	80 °C
Maximum pressure difference in flow direction:	4.8 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

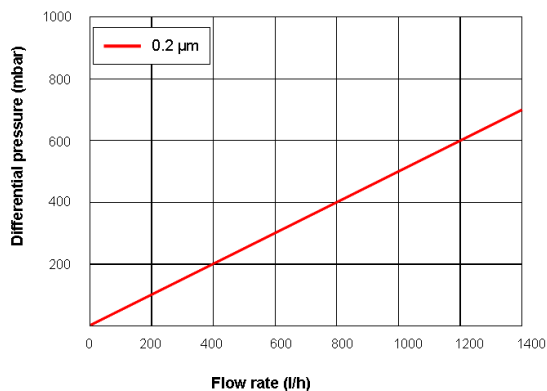
Materials Used

Filter material:	Polypropylene
Internal and external support body:	Polypropylene
End caps/adapters:	Polypropylene 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-inch elements with water at 20 °C (reference values)



Ordering Information

Depth filter cartridges wrapped in protective foil and packed in cartons.

Type of filter	Retention rating	Adapter	Nominal length	Gasket
FS	002 = 0.2 µm	2 = Code 2	1 = 10"/25 cm	S = silicone
		7 = Code 7	2 = 20"/50 cm	
			3 = 30"/75 cm	
			4 = 40"/100 cm	

Example:

FS	002	7	2	S
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BECO PROTECT FS:
0.2 µm retention rating; Code 7; 20"; silicone gasket

Adapter Codes

Code 7	Code 2
2-226 O-ring Double bayonet adapter with spear	2-222 O-ring Triple bayonet adapter with spear
	

HS Customs Tariff: 8421 99 00

Safety

When used and handled correctly, there are no known unfavorable effects associated with this product. No safety specifications are required for BECO PROTECT FS depth filter cartridges. Storing, handling and transporting this product do not present any health or environmental risks.

Disposal

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

Storage

BECO PROTECT FS depth filter cartridges should be stored in their original packaging, protected from UV radiation, in a dry and odor-free place. Never store the product near evaporating chemicals, oils or fuels, etc. The filter cartridges should be used within two years of delivery.

Certified Quality

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

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