

## Cartridge filtration BECO PROTECT PG depth filter cartridges

**BECO PROTECT PG depth filter cartridges consist of wounded polypropylene filter material with different retention rates. The cage and end caps are made from polypropylene and are thermally bonded to each other, thus achieving very high chemical resistance. BECO PROTECT PG depth filter cartridges are used for the following applications:**

Bevergae and food industry	Wine, sparkling wine, beer, mineral water, edible oil, alcoholic beverage, sugar syrup, and non-alcoholic beverage
Chemical industry	fine chemicals, reagents, solvents, resins and paints, water treatment
Cosmetics industry	cleaning of perfume and shampoo and essential oils
Pharmaceutical industry	pre-filtration of bio-pharmaceutical solutions, isotonic salt solutions, rinsing water for ampoules and glass jars

### Characteristics and advantages

The specific advantages of BECO-PROTECT PG:

- ▶ Absolute retention rate for a reliable separation effect
- ▶ Long filter life service
- ▶ High chemical resistance through use of 100 % polypropylene
- ▶ High stability enables safe filtration even in the presence of pressure surges and high differential pressures
- ▶ High dirt holding capacity through graded filter configuration
- ▶ Back-washable up to 2 bar at 80 °C

### Configuration of the depth filter cartridge

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

Materials used:

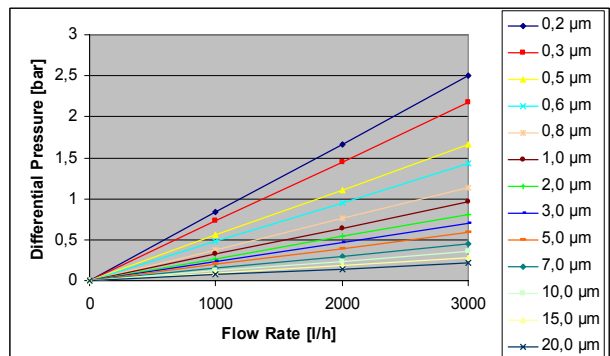
Filter material:	polypropylene
Internal and external support body:	polypropylene. Exception: Code F no external support body
End caps/adapters:	polypropylene
O-rings:	silicone (standard)

All materials used meet the requirements of USP-XXII Class VI-121 °C and are thermally bonded without the use of adhesives.

Filter cartridges types/retention rates:  
absolute ( $\beta$  ratio > 5000)

Filter cartridge type	Retention rate [ $\mu$ m]	Filter cartridge type	Retention rate [ $\mu$ m]
PG002	0.2	PG150	15.0
PG003	0.3	PG200	20.0
PG005	0.5	PG300	30.0
PG006	0.6	PG400	40.0
PG008	0.8	PG500	50.0
PG010	1.0	PG750	75.0
PG020	2.0	PG990	100.0
PG030	3.0	PG992	120.0
PG050	5.0	PG995	150.0
PG100	10.0		

Flow rate: 10" element with water  
at 20 °C



### Technical data

Diameter	70 mm
Max. operating temperature:	80 °C
in critical applications:	60 °C
Max. pressure difference	4.0 bar at 35 °C 2.0 bar at 85 °C
Chemical sterilization	can be sterilized with conventional chemical cleaners

## Ordering Information

Depth filter cartridges with protective foil in carton



Filter type	Retention rate	Adapter	Length	Gasket
PG	002 = 0.2 µm	F = Code F	1 = 10"/25 cm	S = silicone
	003 = 0.3 µm	0 = Code 0	2 = 20"/50 cm	E =
	005 = 0.5 µm	2 = Code 2	3 = 30"/75 cm	EPDM
	006 = 0.6 µm	5 = Code 5	4 = 40"/100 cm	V =
	008 = 0.8 µm	7 = Code 7		Viton
	010 = 1.0 µm	X = without		X =
	020 = 2.0 µm			without
	030 = 3.0 µm			
	050 = 5.0 µm			
	100 = 10.0 µm			
	150 = 15.0 µm			
	200 = 20.0 µm			
	300 = 30.0 µm			
	400 = 40.0 µm			
	500 = 50.0 µm			
	750 = 75.0 µm			
	990 = 100 µm			
	992 = 120 µm			
	995 = 150 µm			



Example:

PG	006	7	1	S
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BECO PROTECT PG depth filter cartridges 0.6 µm retention rate; Code 7, 10"; silicone gasket

## Adapter codes

Code 0	Code 5
2-222 O-Ring with centering tip	2-222 O-Ring with centering tip
	

Code 2	Code 7
2-226 O-Ring 3 bayonet adapter with centering tip	2-226 O-Ring 2 bayonet adapter with centering tip
	

HS Customs Tariff: 8421 99 00

## Safety

When used and handled correctly, there are no known unfavorable effects associated with this product. BECO PROTECT PG depth filter cartridges do not require the provision of safety-relevant information. There are no known risks to humans or the environment during storage, handling and transport.

## Disposal

BECO PROTECT PG depth filter cartridges should be treated as industrial waste. Any local and other official regulations must be followed.

## Storage

BECO PROTECT PG depth filter cartridges should be stored in their original packaging, and 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 2 years after delivery.

## Certified Quality

During the production process, BECO PROTECT PG depth filter cartridges are monitored constantly to ensure consistently high quality. All BECO PROTECT PG depth filter cartridges are subjected to an integrity test during production.

The materials used meet the requirements of the German Health Authority (BGA) and the US Food and Drug Administration (FDA).



Reg. No. 000480 QM

All information is given to the best of our knowledge. However, please understand that the information cannot be guaranteed for every application, working practice or operating condition. Misuse of the product will result in all warranties being voided.

Please do not hesitate to contact us if you have further questions. You may call your area sales manager, or BEGEROW direct on +49 67 04 20 4-0 1.

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We reserve the right to make technical changes.