

Cartridge filtration BECO PROTECT® KT

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Prefilter cartridge for fine filtration

BECO PROTECT® KT prefilter cartridges consist of meltextruded, cross-linked polypropylene filaments. Due to the variation of the filament diameter per sheet, which increases from the inside to the outside, a graded filtration process with a defined retention rate is possible. The stable, non-glued thermoplastic construction permits high dirt holding in conjunction with a high overall throughput and low differential pressures.

The specific advantages of BECO PROTECT® KT are:

- High dirt holding capacity due to graduated filtration process
- Excellent protection of downstream membrane filter cartridges
- High contaminant reduction through constant fine structure of filter material
- Easily regenerated with warm or hot water
- Can be sterilized with steam or hot water
- Resistant to many cleaning agents and disinfectants

Application

BECO PROTECT® KT prefilter cartridges are used for filtering beverages to protect the downstream membrane filter cartridges. The KT B3 and KT B5 prefilter cartridge are recommended as protection of a 0.45 µm membrane filter cartridge to handle heavy germ contamination. KT B6 protects the 0.65 µm membrane filter cartridges. KT TO is used for prefiltration from tank to tank.

Technical data

1. Materials:

The BECO PROTECT® KT prefilter cartridge is constructed of wound and thermally bonded polypropylene filaments which increase in diameter towards the outside. The inner core and outer cage and the two end caps are of polypropylene. Thus the entire filter cartridge is of one material only. The O-ring seals at the adapter are of silicone.

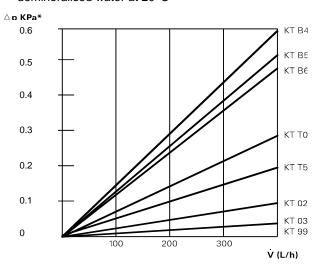
2. Retention grades:

KT B3 - 0.3 μm KT 10 - 10.0 μm KT B5 - 0.5 μm KT 20 - 20.0 μm KT B6 - 0.6 µm KT 30 - 30.0 µm KT T0 – 1.0 μm KT 50 – 50.0 μm KT 02 – 2.0 μm KT 75 – 75.0 μm KT 03 – 3.0 μm KT 99 – 100.0μm KT 05 –5.0 μm

3. Adapter:

Forms of supply and adapter codes see overleaf.

Measured per element of 250 mm, with demineralised water at 20 ℃



5. max. differential 5.0 bar at 20 ℃ in flow press ure

direction

3.5 bar at 70 ℃ in flow direction 1.5 bar at 70 ℃ against flow direction (time limited)

6. Temperature: max. operating temperature 80 ℃

Sterilization:

Steam:

saturated steam, max. 121 ℃ (1.0 bar) Duration: at least 20 min. after steam discharge from

all openings of the system

Hot water: max. 90 ℃

at least 20 min. after attaining a Duration:

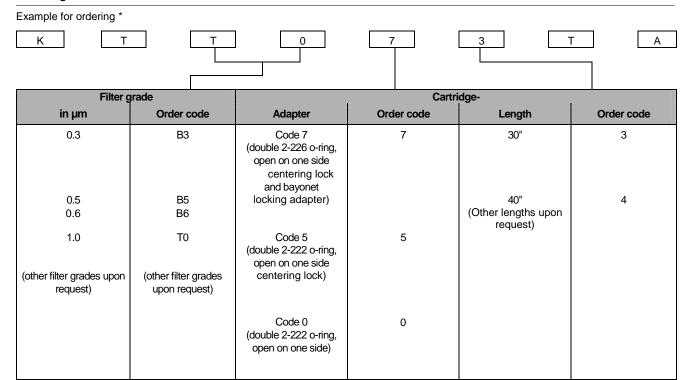
temperature of 80 ℃ at all openings

of the system

7. Rinsing/regeneration:

BECO PROTECT® KT prefilter cartridges are to be daily rinsed backwards with water as described in the operating manual. Stubborn clogging can be eliminated by rinsing with warm, or even better hot water of up to 90 °C. The hot water may remain in the filter overnight to improve the cleansing effect. If the differential pressure after rinsing exceeds 1.0 bar, the cartridge is irreversibly clogged and must be exchanged.

Ordering details: BECO PROTECT® KT



^{*} Example for ordering: KT TO 73 TA, Filter cartridge with 1.0 µm filter grade and adapter Code 7, length 750 mm

Standard gasket: silicone HS Customs Tariff: 84219900

Safety

No negative effects are known to have arisen upon professional use of BECO prefilter cartridges. Technical safety data is not required.

There is no danger whatsoever for personnel or environment during storage and transport.

Disposal

When scrapping, BECO prefilter cartridges are to be treated as industrial waste. We point out however, that any local or official regulations should be observed.

Storage

BECO prefilter cartridges should be stored in their original package in a dry, odour-free place. They should, under no circumstances be stored together with or near evaporating chemicals, oils, fuels etc. The filter cartridges should be used within 2 years of delivery.

Verified quality

BECO prefilter cartridges are constantly monitored during the production process to ensure the consistent high quality.



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