



Feature-Tec's ELCPT pleated membrane filter cartridges are made with a polytetrafluoroethylene (PTFE) membrane with additional polypropylene support layers and components. PTFE filter media is characterized by high chemical resistance and is widely used for filtration of strong acids and bases in semiconductor industry applications.

Applications

- Final filtration of solvents
- Photoresists
- Sterile filtration
- CIP filtration
- Spirits
- Alkaline solutions
- Fermentation air
- Strong acids & bases and many more

Features and benefits

- Absolute removal ratings >99.9%
- Excellent chemical resistance
- Low initial differential pressure, high flow rates and long service life
- Filtration area >0.9 m² per 10" filter element
- Flushed with 18 M Ω-cm DI-water for 30 minutes at 7.57 l/min (2 gpm) with low TOC level

- Filter cartridges may be autoclaved for at least 10 times half-hour cycles @ 121°C (250 °F)
- According to FDA requirements title 21
- Available in a wide variety of adapter/end cap configurations

Filter specifications Material

Pleated hydrophilic polytetrafluoroethylene (PTFE) membrane

Inner core, cage, caps, support layer

Polypropylene

O-rings / Gaskets

Buna N, Silicone, EPDM, Viton, FEP/Silicone, FEP/Viton, PTFE

Retention ratings

 $0.05, 0.1, 0.22, 0.45, 1 \, \mu m$

Dimensions / Parameters

Nominal lengths

10", 20", 30", 40" (254, 508, 762, 1016 mm)

Outside diameter

63 mm (2.48")

Inside diameter

28 mm (1.1")

Maximum operating temperature

93 °C (200 °F)

Max. differential pressures

1.37 bar @ 93 °C (19.9 psid @ 200 °F) 5.49 bar @ 21 °C (79.7 psid @ 70 °F)

Recommended change-out pressure drop for disposal

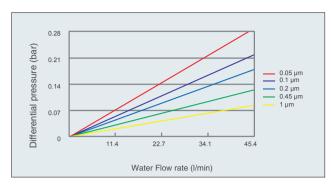
2.1 bar @ 21 °C (30.5 psid @ 70 °F)

Bubble point integrity test (absolute ethanol, 20°C)

0.1 μm: ≥1.4 bar 0.22 μm: ≥1.0 bar 0.45 μm: ≥0.5 bar

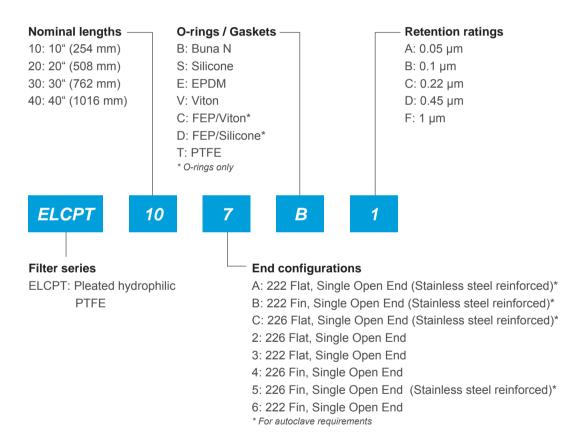


ELCPT Flow Rate for Liquid (10" length)*



^{*} For fluids with a dynamic viscosity of 1 mPa·s @ 20 °C

Ordering information





Brisbane, Australia www.monarchindustrial.com.au www.monarchasiapacific.com.au





Feature-Tec's EGCPT pleated membrane filter cartridges are made with a hydrophobic polytetrafluoroethylene (PTFE) membrane with additional polypropylene support layers and components. PTFE menbrane cartridge is ideal as gas and vent filtration.

Applications

- Gas / vent filtration
- Final filtration of solvents
- Photoresists
- Sterile filtration
- Spirits
- Alkaline solutions
- Fermentation air
- Strong acids & bases and many more

Features and benefits

- Absolute removal ratings >99.9%
- Hydrophobic pleated polytetrafluoroethylene (PTFE) membrane
- Excellent chemical resistance
- Low initial differential pressure, high flow rates and long service life
- Flushed with 18 M Ω-cm DI-water for 30 minutes at 7.57 l/min (2 gpm) Retention ratings with low TOC level

- Filter cartridges may be autoclaved for at least 10 times half-hour cycles @ 121 °C (250 °F)
- According to FDA requirements title 21
- Available in a wide variety of adapter/end cap configurations
- Filtration area >0.9 m² per 10" filter element

Filter specifications Material

Pleated hydrophobic polytetrafluoroethylene (PTFE) membrane

Inner core, cage, caps, support layer

Polypropylene

O-rings / Gaskets

Buna N, Silicone, EPDM, Viton, FEP/Silicone, FEP/Viton, PTFE

0.003, 0.05, 0.1, 0.22, 0.45, 1 μm

Dimensions / Parameters

Nominal lengths

10", 20", 30", 40" (254, 508, 762, 1016 mm)

Outside diameter

63 mm (2.48")

Inside diameter

28 mm (1.1")

Maximum operating temperature

93 °C (200 °F) Max. differential pressures

1.37 bar @ 93 °C (19.9 psid @ 200 °F) 5.49 bar @ 21 °C (79.7 psid @ 70 °F)

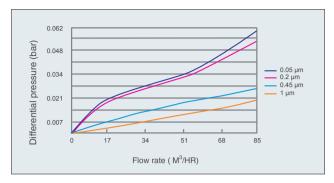
Recommended change-out pressure drop for disposal

2.1 bar @ 21 °C (30.5 psid @ 70 °F)

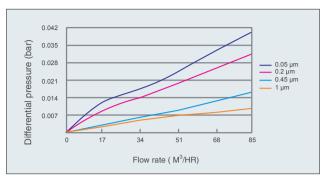
Bubble point integrity test (absolute ethanol, 20°C)

0.1 µm: ≥1.4 bar 0.22 µm: ≥1.0 bar 0.45 µm: ≥0.5 bar

EGCPT Flow Rate for Gas (10" length)*

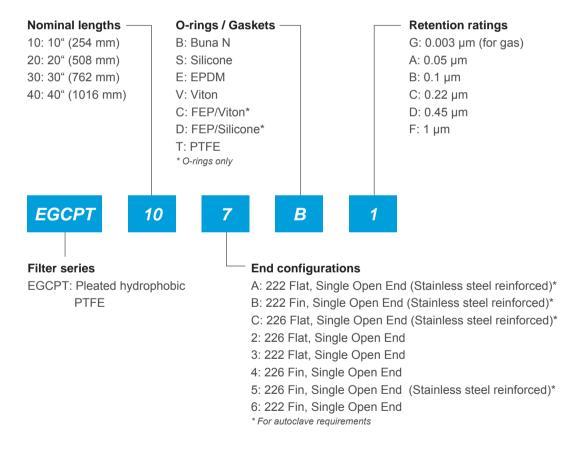






^{*} Test conditions:System pressure at 30 psig , 65°F (18 °C)

Ordering information





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