

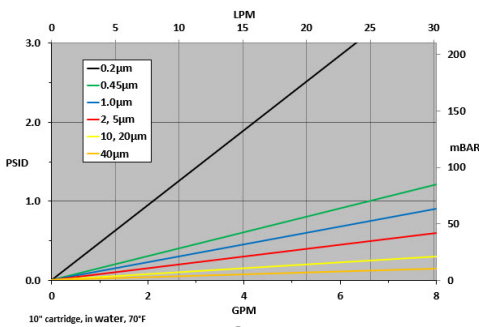
TCPX-Series High Purity Pleated Polypropylene

TCPX-Series High Purity Pleated Polypropylene Filter Cartridges provide a high area, 100% polypropylene element for removal of fine or coarse particulate from fluid streams.

The pleated depth media is encapsulated in an integral, continuous length, thermally-bonded structure for cleanliness, pressure tolerance, and chemical inertness. Offered in a beta 5000 absolute grade (99.98% efficient) in multiple end cap configurations. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.

Commonly used in food/beverage and chemical applications as a final filter or prefiltration stage. Compliant to NSF61 certification standards

Flow Rate vs Pressure Drop



*All data is based on absolute rated medias. Nominally rated medias will result in a pressure drop reduction of approximately 10%.

Typical Applications

- Food & Beverage
- Deionized Water
- R.O. Pre-Filtration
- Process Water
- Fine Chemicals
- Plating Chemicals
- Wastewater
- Pharmaceutical Prefiltration



Construction Materials

- Filtration Media**..... Polypropylene
- Support Media**..... Polypropylene
- End Caps**..... Polypropylene
- Center Core**..... Polypropylene
- Outer Support Cage**..... Polypropylene
- O-Rings/Gaskets**..... Buna, EPDM, Silicone, Teflon® Encapsulated Viton®, Viton®, Teflon® Encapsulated Silicone

Sanitization/Sterilization

- Filtered Hot Water**.....80°C for 30 min.
- Steam Sterilization**.....121°C for 30 min., multiple cycles

Chemicals: Cartridges are compatible with most chemical sanitizing agents.

Note: Stainless steel insert option required for all cartridges being hot water sanitized or steam

Dimensions

- Length:** 10 to 40 inches (25.4 to 101.6 cm) nominal
- Outside Diameter:** 2.70 inches (7.0 cm) nominal

Operating Conditions

- Change Out ΔP (recommended)**.....35 PSID
- Temperature (max)**.....176°F (80°C)
- Differential Pressure (max)**.....60 PSID (4.1 bar) at 68°F (20°C)

Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI – 121°C for plastics.

Food Safety Compliance

Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21CFR. Materials used to produce filter media and hardware are deemed safe for use in contact with foodstuffs in accordance with EU Directives 2002/72/EC, 1935/2004, and/or 10/2011.

Ordering Information

| TCPX | Rating (µ) | Retention | Length | C | End Cap Style | O-Rings/Gaskets | - | Adders | - | 041 |
|------|------------|--------------|----------------|---|--------------------------|-------------------------------------|---|---------------------------------|---|-----|
| | 0.2 | A = Absolute | 10" (25.4 cm) | | 2 = DOE Flat Gasket | B = Buna | | CS = 316SS Compression Spring | | |
| | 0.45/0.5 | | 20" (50.8 cm) | | 3 = 222 w/ Fin | E = EPDM | | FG = Glass Reinforced PP Core * | | |
| | 1.0 | | 30" (76.2 cm) | | 4 = 222 w/ Flat Cap | S = Silicone | | I = Stainless Steel Insert | | |
| | 2.0 | | 40" (101.6 cm) | | 5 = 222 w/ Spring | T = Teflon® Encapsulated Viton®* | | SS = Stainless Steel Core | | |
| | 5.0 | | | | 6 = 226 w/ Flat Cap | V = Viton®* | | | | |
| | 10.0 | | | | 7 = 226 w/ Fin | Z = Teflon® Encapsulated Silicone * | | | | |
| | 20.0 | | | | 8 = 226 w/ Spring | | | | | |
| | 40.0 | | | | 16 = 213 Internal O-Ring | | | | | |

DISCLAIMER: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required. For additional technical support, a product Performance Guide is available upon request.