

# APTF-T/APTFI-T Filter Cartridges

All Fluoropolymer Constructed

**APTF-T** Filter Cartridges are composed of an expanded hydrophobic PTFE membrane, ECTFE support and PVDF cage and core making it suitable to use in strong acid and solvent filtration.

**APTFI-T** Filter Cartridges are composed of a hydrophilic PTFE membrane which is specially designed for aggressive water-based filtration conditions.

## Features and Benefits

- 100% all Fluoropolymer construction
- Absolute rated in all ratings except 0.22µm; 0.22µm rating's retention efficiency is up to 99.99999%
- High filtration performance including high flow rates and low pressure drops
- Available in both hydrophobic and hydrophilic PTFE media

## Quality Standards

- Manufactured in a facility which adheres to ISO 9001:2015 Practices .
- Full Regulatory Compliance with following :
  - Bacterial Endotoxin :Aqueous extraction of autoclaved filter contains <0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL),USP<85>.
  - Non-fiber Releasing :Component materials meet the criteria for a " Non-fiber-releasing filter " as defined in 21 CFR 210.3(b)(6).
  - Component Material Toxicity :Meet the requirement of USP <87> In Vitro Cytotoxicity Test ; Meet the Criteria of USP<88> Biological Reactivity Test for Class VI-121 C plastics
  - TOC/Conductivity at 25 C : Autoclaved filter effluent meet the USP<643> for Total Organic Carbon and USP<645> for Water Conductivity per WFI requirements after a UPW flush of specified volume .
  - Particle Shedding : Autoclaved filter effluent meet the USP<788>for large volume injections .
  - Indirect Food Additive: All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182 ,and EU framework regulation [1935/2004/EC].

## Typical Applications

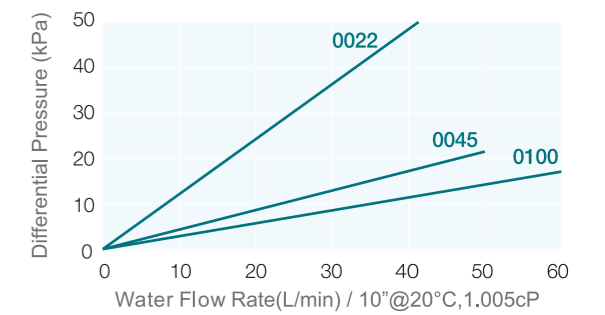
- Strong Acid Filtration
- Aggressive Solvents Filtration



## Materials of Construction

Filter Media	APTF-T/APTF: Expanded Hydrophobic PTFE Membrane APTFI-T/APTFI: Expanded Hydrophilic PTFE Membrane
Support	ECTFE
Cage/Core/End Caps	PVDF
O-ring	PTFE/PTFE Encapsulated Viton

## Flow Rate Characteristics



## Operating Conditions

Max. Continuous Operating Temperature	96°C
Max. Differential Pressure	5.0 bar / 21°C (forward) 3.0 bar / 80°C (forward)
Integrity Test Standards: APTF-T, 0.22µm	BP: ≥ 0.1MPa (60%/40%, IPA/Water) DF: ≤ 28ml/min/10" @ 80Kpa (60%/40%, IPA/Water) WIT: 0.53ml/min/10" @ 0/25MPa
Integrity Test Standards: APTFI-T, 0.22µm	BP: ≥ 0.32MPa (Water) BP: ≥ 0.1MPa (60%/40%, IPA/Water) DF: ≤ 28ml/min/10" @ 80Kpa (60%/40%, IPA/Water)
Effective Filtration Area	0.96m² / Φ 68-10 inch

\* Not Recommended for Inline Steam Sterilization and Autoclaving

## Ordering Information

APTF-T				-P
APTFI-T	0020 = 0.2µm	SF=226 /Fin	05 = 5"	K=PTFE
	0045 = 0.45µm	SC=226 /Flat	10 = 10"	P=PFA/Viton
	0300 = 3.0µm	DTF=D222 /Fin	20 = 20"	
	0500 = 5.0µm	DTC=D222 /Flat	30 = 30"	
		DOE=Double Open End	40 = 40"	