

PFA FILTER CARTRIDGES

DESIGNED FOR EXTREMELY AGGRESSIVE APPLICATIONS

PFA Filter Cartridges are composed of an expanded PTFE membrane and PFA cage, core, and support. These filters are specially designed for applications with extremely aggressive environments, including strong acids, alkalis, and solvents and high temperature. Validated sterile grade is also available, named PFA-T, which is highly recommended for strict pharmaceutical applications.

FEATURE	BENEFIT
100% fluoropolymer construction	High filtration performance including high flow rates and low pressure drop Ideal for use with strong acids, alkalis, solvents, and high-temperature applications. Excellent durability
Available pre-wet	Allows for rapid return to process flow conditions. Eliminating prewetting for aqueous applications.

QUALITY STANDARDS

Quality Assurance	These products are manufactured in a facility which adheres to ISO 9001 Practices.
TOC / Conductivity at 25°C	Autoclaved filter effluent meets 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 meets the requirements in USP <788> for large volume injections
Non-Fiber Releasing	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6)
Bacterial Endotoxin	Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus; Amebocyte Lysate (LAL), USP <85>.
USP <87> Cytotoxicity	Meet the requirement of USP <87> In Vitro Cytotoxicity Test
USP <88> Biological Toxicity	Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121°C plastics.
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].

SPECIFICATIONS

Filter media	Expanded PTFE Membrane
Supports/core/cage/end caps	PFA
Effective filtration area	0.88 m ² (9.5 ft ²)/ φ68-10 inch
O-rings	PTFE, FEP/PFA encapsulated FKM
O-ring Internal Insert	Stainless Steel

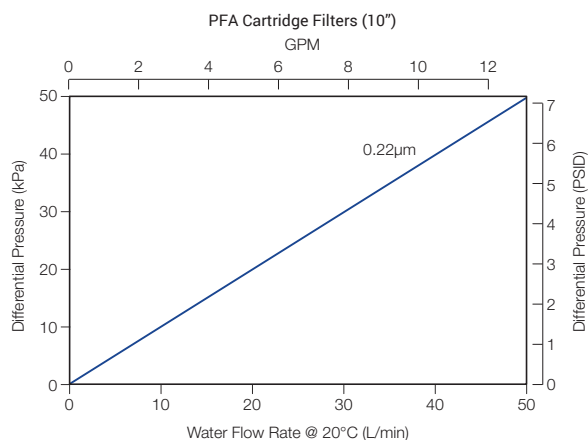


Typical Applications

- Corrosive Acids, Alkalis, and Solvents
- High Temperature Applications
- Air and Liquid Oxidation

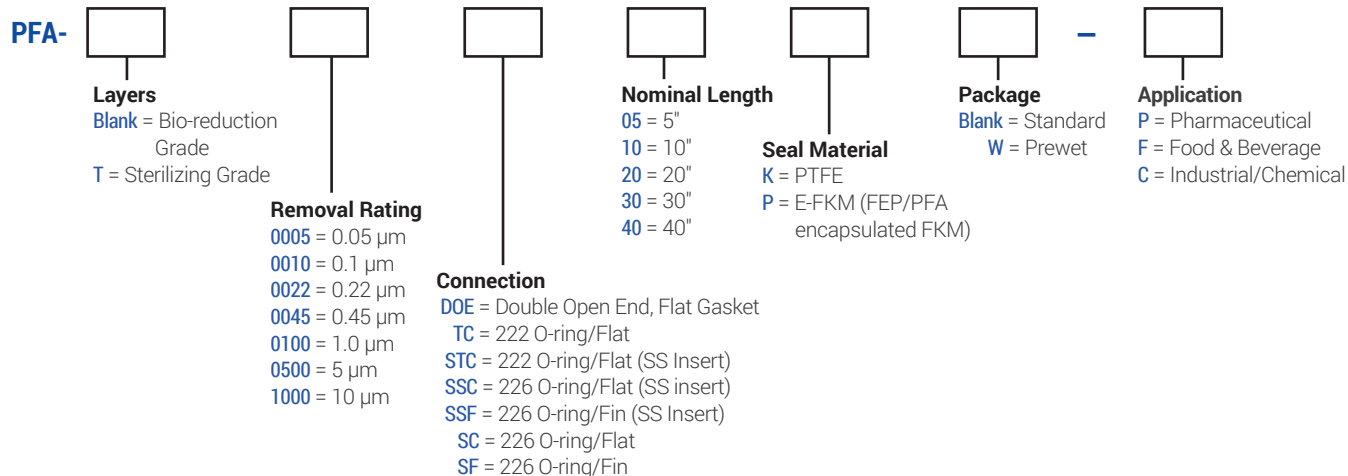
Cartridge Diameter	68 mm (2.7 in.)
Max. Continuous Operating Temperature	170°C
Max. Differential Pressure	0.40 MPa (4.0 bar, 58 psi) at 50°C 0.30 MPa (3.0 bar, 44 psi) at 110°C 0.15 MPa (1.5 bar, 22 psi) at 170°C
Steam Sterilization	up to 30 cycles for 30 minutes at 135°C at Max. Differential Pressure of 0.3 bar (4.3 psi)
Autoclave Sterilization	up to 30 cycles for 30 minutes at 130°C per cycle
Bubble Point	PFA-T 0.22 µm: ≥0.11 Mpa (60%/40% IPA/water)
Water Intrusion Test	PFA-T 0.22 µm: ≤0.38 ml/min/10"cartridge

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **PFA-T0022SC10PW-P** = Sterilizing Grade, 0.22µm, 226/Flat, 10" length filter with E-FKM seals, Prewet



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