

TEFLOFLOW HT FILTER CARTRIDGES

Hydrophobic PTFE Membrane
for sterile liquid filtration at high temperatures,
and venting of ozonated water

TEFLOFLOW HT FILTER CARTRIDGES

HYDROPHOBIC PTFE MEMBRANE FILTERS DESIGNED FOR STERILIZED FILTRATION AT HIGH TEMPERATURE

TefloFlow HT Filter Cartridges are composed of hydrophobic PTFE membrane with polyphenylene sulfide (PPS) support layers, and oxidation-stabilized polypropylene hardware. This filter series is recommended for ozonated water venting applications, sterile gas, and high temperature liquid filtration.

FEATURE	BENEFIT
Hydrophilic and Hydrophobic PTFE membrane filters with PPS supports	Oxidation-resistant materials provide longer service life in critical air and vent applications
	Exceptionally high flow rates at low pressure drops
	Rugged construction offers outstanding stability during steam sterilization
	Wide chemical compatibility
Quality Assurance	Manufactured in a facility which adheres to ISO 9001:2015 Practices. 100% Integrity tested and lot traceable.
Indirect Food Additive	All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177–182 and 1935/2004 EC.

SPECIFICATIONS

Filter media	Hydrophobic PTFE membrane
Supports	Polyphenylene sulphide (PPS)
Core/cage/end caps	Polypropylene (high antioxidant formulation)
O-ring internal support	PBT, SS (316L)
O-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM
Effective filtration area	0.68m ² (7.2 ft ²) / Ø69-10 inch
Cartridge diameter	69 mm (2.7 in.)
Max. operating temperature	Forward: 0.69 MPa (6.9 bar, 100 psi) at 25°C; 0.40 MPa (4.0 bar, 58 psi) at 60°C; 0.24 MPa (2.4 bar, 35 psi) at 80°C Reverse: 0.3 MPa (3.0 bar, 44 psi) at 25°C; 0.1 MPa (1.0 bar, 15 psi) at 80°C
Max. differential pressure	Forward: 0.40 MPa (4.0 bar, 58 psi) at 21°C ; 0.24 MPa (2.4 bar, 35 psi) at 90°C
Bubble point (0.22 µm)	≥0.11 MPa (1.6 bar, 16 psi) (in 60% IPA/40% water solution, air)
Water intrusion @20°C (022/0.01 µm)	≤9.53 mL/min@ 0.25 MPa (2.5 bar, 36 psi)
Steam sterilization (saturated steam)	Steam-in-Place: Can be steam sterilized for 30 minutes at 145°C (< 0.3 bar, 5 psi) in forward direction with 100 cycles and in reverse direction (< 0.1 bar, 1.5 psi) with 50 cycles. Autoclave: Can be autoclaved 400 cycles for 30 minutes at 130°C

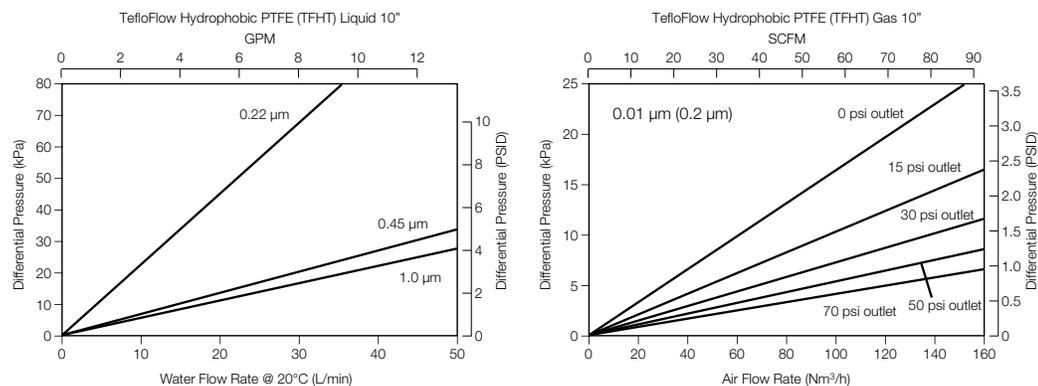


Typical Applications

- Vent
- Sterile gas
- Air
- High temperature liquid filtration
- Ozonated water

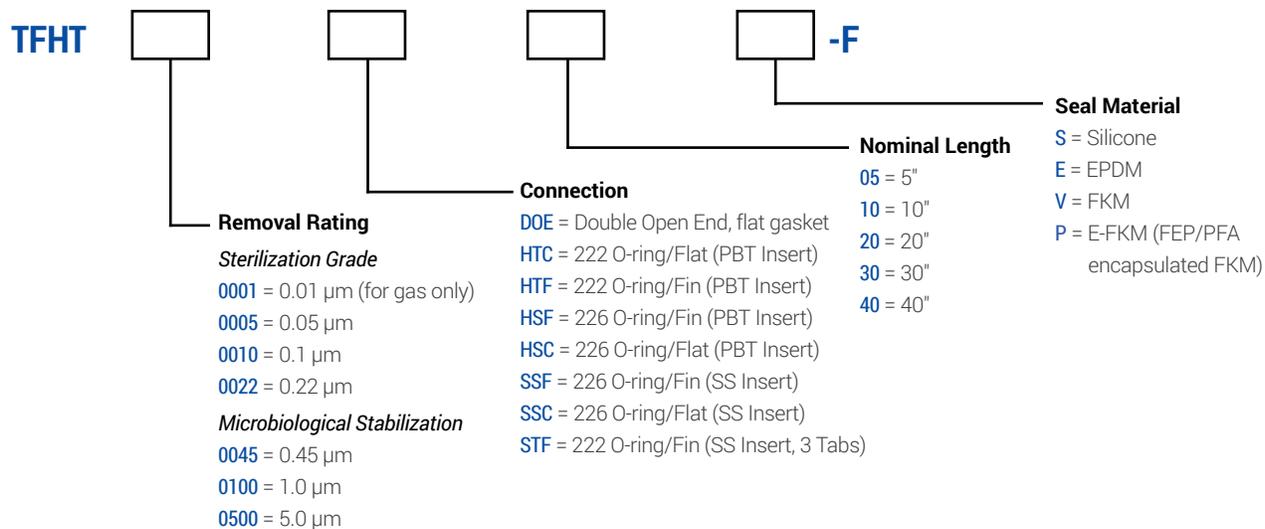
Chemical sanitization	2% NaOH solution @ ≤ 65°C
Particle shedding	Autoclaved filter effluent meets the requirements in USP <788> for large volume parenterals.
Non-fiber release	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR210.3 (b) (6).
Bacteria endotoxin	Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>.
USP <88> biological toxicity	Meets 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 CFR177–182.
Quality assurance	These products are manufactured in a facility which adheres to ISO 9001:2015 Practices.

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **TFHT0010HTF10S-F** = Hydrophobic PTFE 0.1 µm, 222/Flat, 10" filter with silicone seals



BANNER INDUSTRIES IS THE EXCLUSIVE DISTRIBUTOR FOR COBETTER PRODUCTS IN THE USA
Visit www.bannerindustries.com and select the Contact Us link to find the location nearest you. The Banner Industries of N.E., Inc. Terms and Conditions of Sale apply and are fully and expressly incorporated herein by reference and constitute a part of any contract for the purchase of the products described herein.

CBBPP1016 Rev. 12112019
Copyright © 2019 Banner Industries, Inc. All rights reserved.