HT TEFLOGAS® FILTER CARTRIDGES

HYDROPHOBIC PTFE MEMBRANE STERILE-GRADE FILTERS FOR CRITICAL GAS FILTRATION AT HIGH TEMPERATURES

HT TefloGas® Filter Cartridges are composed of a PTFE membrane with advanced high-temperature-resistant core and internal adaptor. They are specially designed for air, gas, and vent sterile filtration at critically high temperatures.

FEATURE	BENEFIT
Hydrophobic PTFE membrane	Inherently hydrophobic to prevent liquid from passing
	Exceptionally high flow rates with low pressure drops
	Oxidation-resistant materials provides longer service life in high temperature air and vent applications
	Filter construction provides steam resistance at high temperatures

Typical Applications

- Autoclaves
- Fermented Inlet Air
- Aseptic Packaging/ Blow-fill Seal (BFS)
- Hot Water for Injection (WFI) Tank Vents
- Oxygen-rich Fermented Air

QUALITY STANDARDS

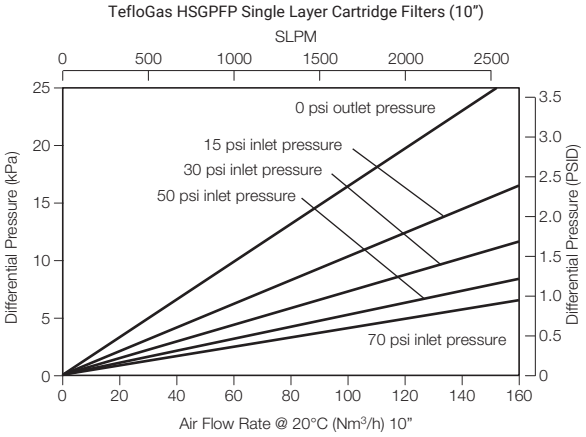
Quality Assurance	These products are manufactured in a facility which adheres to ISO 9001:2015 Practices. 100% Integrity testing. Part/Serial number are laser-etched and have 2D matrix code for easy tracking.
Bacterial Retention	Retention of 10^7 cfu/cm^2 Brevundimonas diminuta (ATCC® 19146) according to ASTM F838 for ≤ 0.2 µm
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 parenterals.
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 <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.

SPECIFICATIONS

Filter media	Hydrophobic PTFE membrane (Single Layer)
Support/Drainage	Polyphenylenesulfide (PPS)
Core/cage/end caps	High Temperature Polypropylene
Effective filtration area	0.68m^2 (7.3 ft^2)/ Ø68-10 inch
O-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM, PTFE

Typical Service Life in Continuous Flowing Air Service	**Max Temp.** 100°C (212°F) 110°C (230°F) 120°C (248°F)	**Service Life** 12 months 6 months 2 months
O-ring internal insert	Internal stainless steel insert	
Cartridge diameter	68 mm (2.7 in.)	
Max. Operating pressure	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	
Max. Differential pressure	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	
Integrity test data	Bubble Point: ≥ 0.11 MPa (1.0 bar, 15 psi) wetted with 60%/40%IPA/Water, 0.01µm/0.2µm	
	Diffusion Flow: ≤ 16ml/min/10"cartridge@80KPa (60%/40%IPA/Water), 0.01µm/0.2µm	
	Water Intrusion Test: ≤ 0.53ml/min/10" cartridge @0.25MPa (2.5 bar, 36 psi), 0.01µm/0.2µm	
Steam sterilization	up to 100 forward cycles and 50 reverse cycles for 30 minutes at 145°C at Max. Differential Pressure of 0.3 bar (4.3 psi)	
Autoclave	up to 400 cycles for 30 minutes at 130°C	

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **HSGPFP0001SSF10SP** = Single Layer PTFE, 0.01 µm for gas, 226/Fin (SS insert), 10" filter with silicone seals

HS **GPFP** [ ] [ ] [ ] [ ] **P**

Membrane
HS = Single Layer

Retention
0001 = 0.01 µm
0022 = 0.22 µm

Connection
DOE = Double Open End, Flat Gasket
SSF = 226 O-ring/Fin (SS insert)
SSC = 226 O-ring/ Flat (SS insert)

Nominal Length
05 = 5"
10 = 10"
20 = 20"
30 = 30"
40 = 40"

Seal Material
S = Silicone
E = EPDM
V = FKM
P = E-FKM (FEP/PFA encapsulated FKM)
K = PTFE

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CBBPP1040 Rev. 09272022