

TEFLOGAS® FILTER CARTRIDGES

HYDROPHOBIC PTFE MEMBRANE FILTERS DESIGNED FOR GAS STERILIZATION GRADE APPLICATIONS

TefloGas® Filter Cartridges are composed of a hydrophobic PTFE membrane and a thick thermal-resistance polypropylene core. They are characterized by a high filtration area, non-metallic ion release and are easy to clean when compared to filters with a stainless steel core. As a result, they are highly recommended for air and gas sterile filtration of biological liquids and fermentation in the pharmaceutical industries.

FEATURE	BENEFIT
Hydrophobic PTFE membrane	Inherently hydrophobic to prevent liquid from passing
	Exceptionally high flow rates with low pressure drops
	Highly recommended for all air and gas sterilization filtration of biological liquids and fermentation in the pharmaceutical industries.

QUALITY STANDARDS

Quality Assurance	These products are manufactured in a facility which adheres to ISO 9001:2015 Practices.
Bacterial Retention	Retention of 10^7 cfu/cm ² <i>Brevundimonas diminuta</i> (ATCC® 19146) according to ASTM F838 for $\leq 0.2\mu\text{m}$
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/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.

SPECIFICATIONS

Filter media	Hydrophobic PTFE membrane (Single or Dual Layer)
Supports/core/cage/end caps	Polypropylene (Thermal Resistant)
Effective filtration area	0.68m ² (7.3 ft ²)/ Ø68-10 inch
O-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM

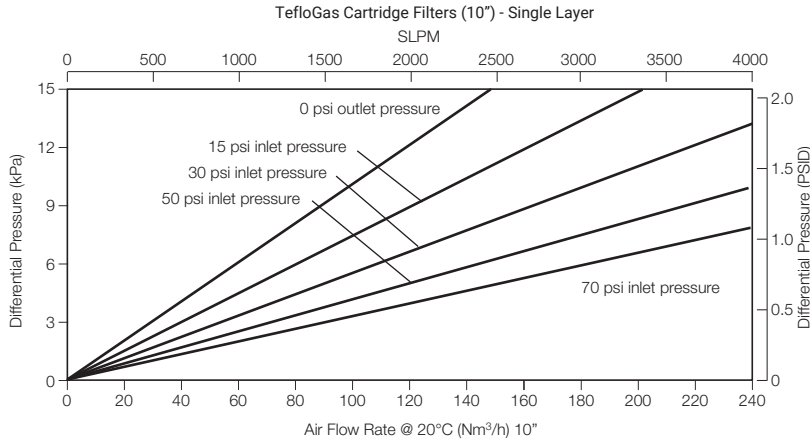


Typical Applications

- Aseptic Packaging
- Compressed Air and Nitrogen Gas Sterilization
- Corrosive Gases Sterilization
- Vent Filtration

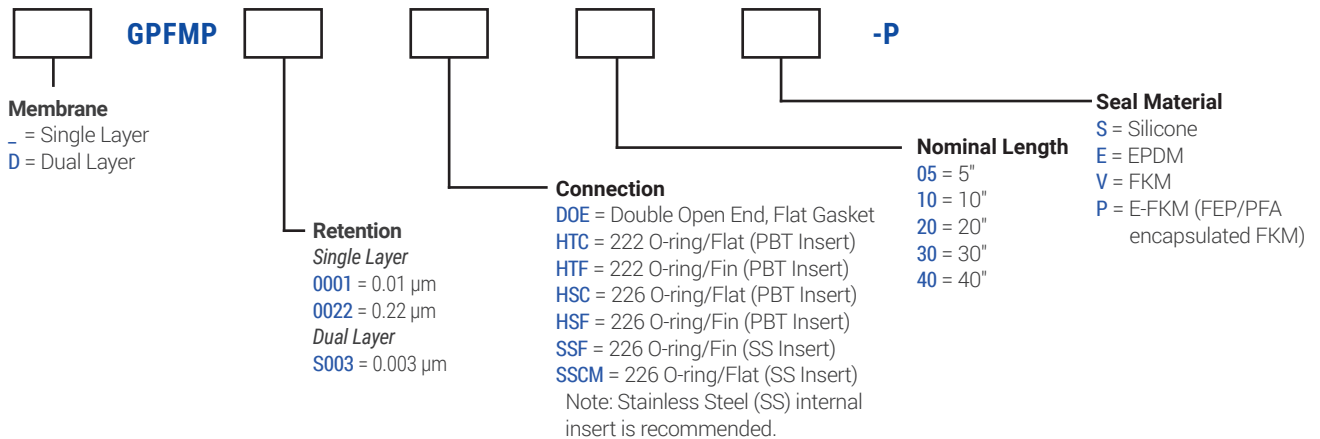
O-ring internal insert	PBT
Cartridge diameter	68 mm (2.7 in.)
Max. Operating pressure	0.69 MPa (6.9 bar, 100 psi) at 25°C; 0.40 MPa (4.0 bar, 58 psi) at 60°C; 0.24 MPa (2.4 bar, 35 psi) at 80°C
Max. Differential pressure	Forward: 0.69 MPa (6.9 bar, 100 psi) at 25°C; 0.40 MPa (4.0 bar, 58 psi) at 60°C; 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: ≥ 0.1 MPa (1.0 bar, 15 psi) wetted with 60%/40%IPA/Water Diffusion Flow: ≤ 24 ml/min/10" cartridge @ 80 kPa (60%/40%IPA/Water) Water Intrusion Test: ≤ 0.75 ml/min/10" cartridge @ 0.25 MPa (2.5 bar, 36 psi)
Steam sterilization	up to 100 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: **GPFMP0001HSF10S-P** = Single Layer PTFE, 0.01 μ m for gas, 226/Fin, 10" filter with silicone seals



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