

## TEFLOGAS® FILTER CARTRIDGES

### HYDROPHOBIC PTFE MEMBRANE FILTERS DESIGNED FOR AIR AND GAS STERILIZATION GRADE APPLICATIONS

TefloGas® Filter Cartridges are composed of hydrophobic PTFE membrane in a specially designed, unique thermal-resistant polypropylene core. They are characterized by a high filtration area and high-temperature resistance. Each filter is individually integrity tested to ensure microbiological safety. They are highly recommended for all air and gas sterilizing grade applications in food and beverage, e.g. fermentation processes.

FEATURE	BENEFIT
<b>Hydrophobic PTFE membrane filters with PPS supports</b>	Oxidation-resistant materials provide longer service life in critical air and vent applications
	Exceptionally high flow rates with low pressure drops
	Highly recommended for all air and gas sterilization grade applications in food and beverage, for example fermentation processes.
<b>Quality Assurance</b>	Manufactured in a facility which adheres to ISO 9001:2015 Practices. 100% Integrity tested and lot traceable.
<b>Indirect Food Additive</b>	All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177–182.
<b>SPECIFICATIONS</b>	
<b>Filter media</b>	Hydrophobic PTFE membrane
<b>Supports</b>	Polypropylene
<b>Core</b>	Stainless Steel 304, Polypropylene
<b>Cage/end caps</b>	Polypropylene (thermal-resistant formulation)
<b>O-ring internal support</b>	PBT, SS (316L)
<b>O-rings</b>	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM
<b>Effective filtration area</b>	0.85m <sup>2</sup> (9.1 ft <sup>2</sup> )/ Ø69-10 inch
<b>Cartridge diameter</b>	68 mm (2.7 in.)
<b>Max. operating temperature</b>	80°C
<b>Max. differential pressure (Single Layer)</b>	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:
0.30 MPa (3.0 bar, 44 psi) at 25°C	
0.40 MPa (1.0 bar, 15 psi) at 80°C	
<b>Bubble point (Single Layer)</b>	≥0.11 MPa (1.1 bar, 16 psi) (in 60% IPA/40% water solution, air)

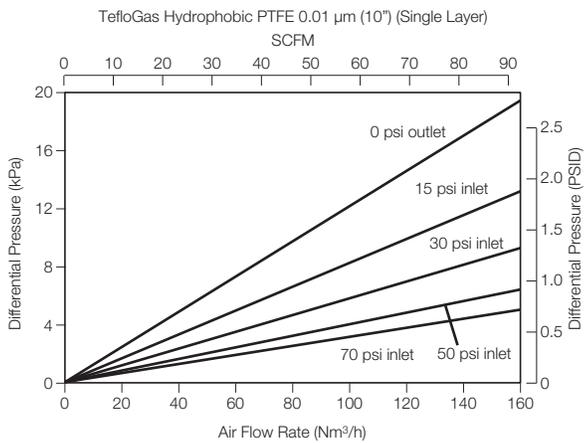


#### Typical Applications

- Vent Filtration
- Fermentation Gas
- Sterile Gas Filtration
- High Temperature Gas Processes

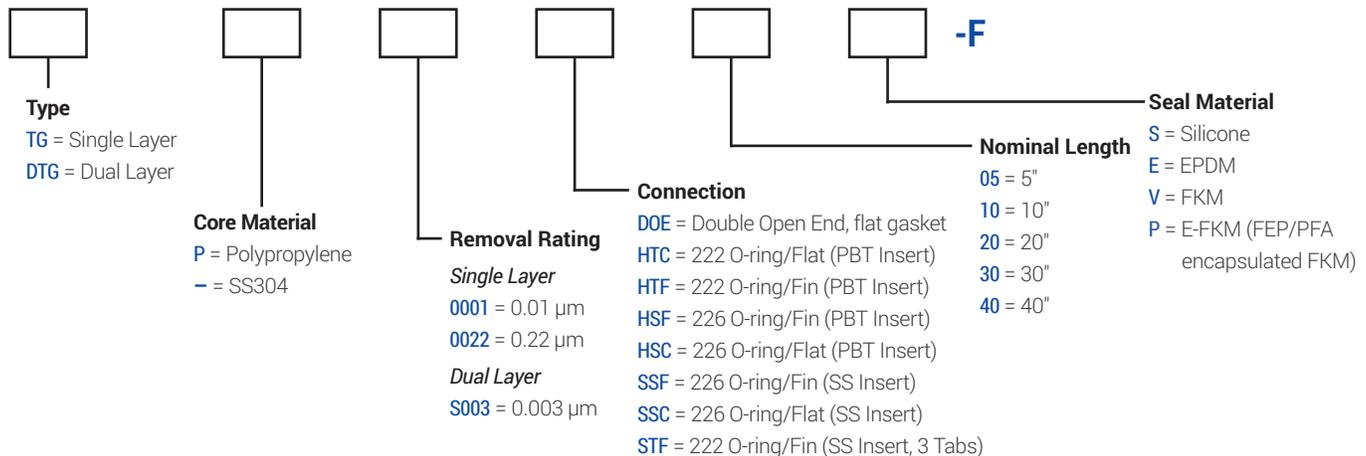
<b>Water intrusion</b>	≤0.38 mL/min. at 0.25 MPa (2.5 bar, 36 psi) at 20°C
<b>Steam sterilization (saturated steam)</b>	Steam-in-Place: Can be steam sterilized for 30 minutes at 145 °C (< 0.3 bar, 5 psi) in forward direction with 100 cycles and in reverse direction (< 0.1 bar, 1.5 psi) with 50 cycles. Autoclave: Can be autoclaved 400 cycles for 30 minutes at 130°C
<b>Hot water sterilization</b>	30 minutes at 121°C for up to 150 cycles
<b>Chemical sanitization</b>	2% NaOH solution @ ≤ 65°C
<b>Particle shedding</b>	Autoclaved filter effluent meets the requirements in USP <788> for large volume parenterals.
<b>Non-fiber release</b>	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR210.3 (b) (6).
<b>Bacteria endotoxin</b>	Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>.
<b>USP &lt;88&gt; biological toxicity</b>	Meets the criteria of the USP <88> Biological Reactivity Test for Class VI-121 °C plastics.

## FLOW RATES



## ORDERING INFORMATION

EXAMPLE: **TGP0001HSF10S-F** = Single Layer membrane, all polypropylene construction, 0.01 μm, 226/Fin, 10" filter with silicone seals



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