

Hall Pyke



Membrane Filtration

HT

The SMART choice for filtration

HT TefloGas® Filter Cartridges

Hydrophobic PTFE Membrane · Sterile-Grade Filter for Critical Gas Filtration

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.

Features and Benefits

- Designed for Water Intrusion Test (requires no alcohol)
- Oxidation-resistant materials provides longer service life in high temperature air and vent applications
- Exceptionally high flow rates with low pressure drops
- Part/Serial number are laser-etched and have 2D matrix code for easy tracking
- Filter construction provides steam resistance at high temperatures

Quality Standards

- Integrity Test correlates to ASTM F838-05 Bacterial Challenge Test (BCT)
- Each filter is individually Integrity Tested prior to leaving the factory
- Each filter is Fully Traceable with a unique serial number
- Designed, developed and manufactured in compliance with ISO9001
- Full Regulatory Compliance with the following:
 - 21CFR.210.3(b)(5)(6), 211.72 for Non-Fiber Release
 - Endotoxins: <0.25EU/ml/10inch filter
 - USP <88> Plastic Class VI-121°C
 - FDA 21 CFR177-182 & EU 1935/2004/EC

Typical Applications

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



Sterile Filtration

Bio-burden Reduction

Pre-Filtration

All-Fluorine Filters

Capsule Filters

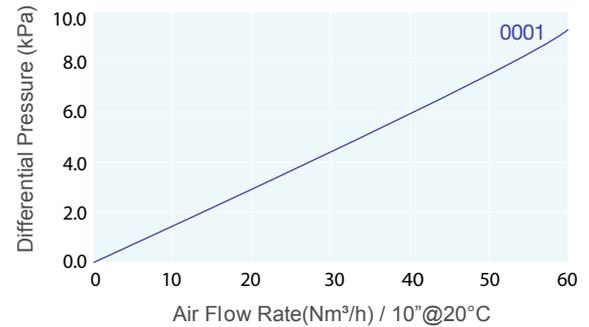
Materials of Construction

Filter Media	Hydrophobic PTFE Membrane
Support/Drainage Layers	Polyphenylenesulphide (PPS)
Core/Cage/Endcaps	Polypropylene

Operating Conditions

Max. Temperature	100°C
Max. Differential Pressure	5.4bar/50°C _(forward) 4.1bar/80°C _(forward)
Effective Filtration Area	0.68m ² / Ø 68-10 inch

Flow Rate Characteristics



Sterilization

In-line Steam Sterilization	up to 100 forward cycles (145°C for 30min at 30kPa for every cycle)
Autoclave	up to 400 cycles (130°C for 30min per cycle)

Integrity Test Data

Bubble Point	BP : ≥0.11Mpa (60%/40%IPA/Water), 0.01µm
Diffusion Flow	DF : ≤ 16ml/min/10"cartridge@80KPa(60%/40%IPA/Water), 0.01µm
Water Intrusion Test	WFT : ≤0.53ml/min/10"cartridge@0.25MPa,0.01µm

Ordering Information

HSGPFP	Removal Ratings	End Cap	Nominal Length	Seal Material	-P
	0001=0.01 µm	HSF=226 /Fin (PBT Insert)	10=10"	S=Silicone	
	0022=0.22 µm	HSC=226 /Flat (PBT Insert)	20=20"	E=EPDM	
		HTF=222 /Fin (PBT Insert)	30=30"	V=Viton	
		HTC=222 /Flat (PBT Insert)	40=40"	P=FEP Encapsulated Viton	
		DOE=Double Open End		K=PTFE	

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