

Teflo-Clear™ Cartridges with PTFE Membrane

High Surface Area Pleated Hydrophobic PTFE Filter Cartridges for Critical Applications



Description

Teflo-Clear™ pleated PTFE membrane cartridges are carefully constructed for the Bio-Pharm, Beverage, and Fine Chemical industries to provide secure reliable filtration for gases and solvents.

Teflo-Clear is constructed with high throughput, single layered PTFE membrane for high flow rates in critical applications, such as, tank venting where instantaneous air flow is required.

Teflo-Clear can provide sterile air for pneumatic conveying of liquid products where the introduction of airborne bacteria can destroy valuable products.

Teflo-Clear is excellent for filtering solvents that would damage other membrane materials. The polypropylene support materials in combination with the PTFE membrane give the filters a broad chemical resistance spectrum while maintaining complete integrity.

Teflo-Clear 0.2 µm filter is validated for absolute bacterial retention with the challenge data correlated to Water Intrusion Testing.

Features and Benefits

- High Flow Rates, Low Pressure Drop
- Bacterial Challenge Tested
- Validated for Multiple Steaming Cycles
- Single Layer PTFE construction
- Integrity Testable
- Available in 10, 20, 30, and 40 inch lengths
- Stainless Steel Ring Reinforced Available

Materials of Construction

Filter Media	Hydrophobic PTFE
Support Media	Polypropylene
Cage, Core, Endcaps	Polypropylene
O-Rings/Gaskets	EPR, Silicone, PTFE*

* Other materials available

Applications

- Sterile Venting
- Sterile Filtration of Air and Gas
- Sterile Filtration of Solvents
- Industrial Fermentation
- Containment Filter for Kill Tanks
- Vent for Autoclaves, Stills, and WFI Tanks
- Bulk Tank Vents
- Clean Gases
- Solvents Filtration
- Phage Removal from Air
- Instrument and Clean Process Air
- Fermentation Gases

Compliance

	USP Class VI	FDA Listed Per 21 CFR
Filter Media	Pass	Yes
Support Media	Pass	Yes
Cage, Core, Endcaps	Pass	Yes

Nominal Dimensions

		A	B	C	D
Diameter	(in)	2.7	2.7	2.7	2.7
	(cm)	6.9	6.9	6.9	6.9
Length	(in)	10	20	30	40
	(cm)	25	51	76	102
Filtration Area	(ft ²)	6.7	13.4	20.1	26.8
	(m ²)	0.6	1.2	1.9	2.5

Operating Conditions

Maximum Differential Pressure	Maximum Operating Temperature
60 psid (4.1 bar)	68 °F (20 °C)
30 psid (2.1 bar)	146 °F (60 °C)

Sterilization

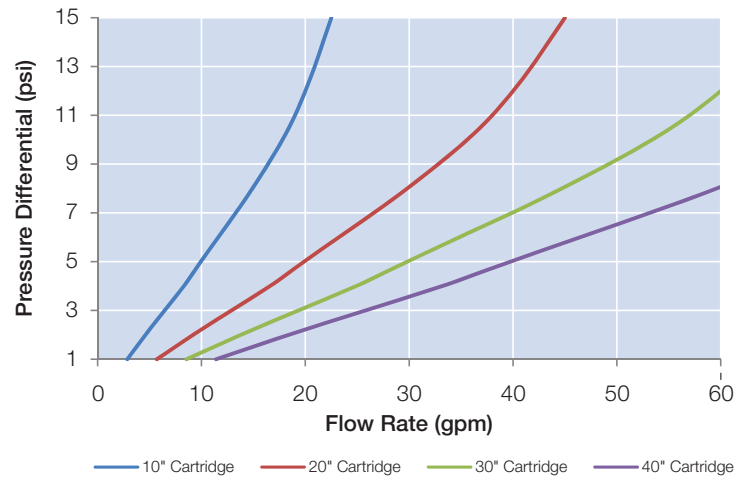
Autoclave	30 minutes	259 °F (126 °C)
In-line Steam*	30 minutes	275 °F (135 °C)

* Rated for 200 cycles

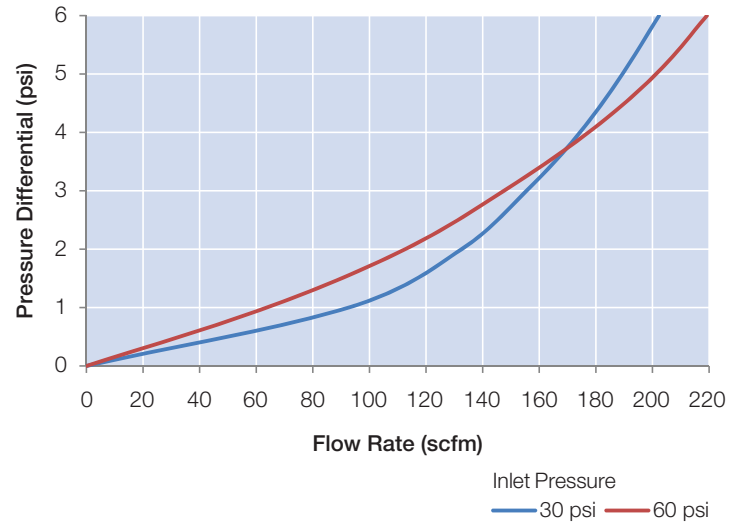
Integrity

Length Designation	A	B	C	D
Maximum Water Intrusion at 30 psi (mL)	30	60	90	120
Minimum Bubble Point 70/30 IPA (psi)	16	16	16	16
	(bar)	1.1	1.1	1.1

Water Flow Rate



Air Flow Rate



Cartridge Selection Guide

Media Type	Micron Rating* (fluid)	Series	Number of Layers	Nominal Length (in)	Cartridge Style	Gasket or O-Ring Material	Utilization
T	002	AP	1	B	7	03	S
PTFE	002 = 0.2 µm	AP = Pharmaceutical AB = Beverage AM = Microbial AS = Standard*	1	A = 10 B = 20 C = 30 D = 40	2 = DOE 3 = 222 O-Ring/Flat 7 = 226 O-Ring/Fin 7A = 226 O-Ring/Flat 8 = 222 O-Ring/Fin	01 = EPR 03 = Silicone 08 = Viton 11 = PTFE/ Viton Other materials available	S = Steam Sterilizable N = Non-Steam Sterilizable

*Standard grade is not integrity tested

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