

#### FILTRATION | SEPARATION | PURIFICATION



### **Product Specifications**

Media: Expanded PTFE Membrane

Inner core, end caps, cage: Polypropylene

Support layers: Polypropylene

Gaskets/O-Rings:

O-ring Insert: PBT

Buna-N, EPDM, Silicone, Teflon Encapsulated Viton (O-Rings only),

Teflon (gaskets), Viton

**Micron ratings:** 0.05, 0.1, 0.2, 0.45, 1.0 μm

#### **Dimensions**

#### Nominal lengths:

5" 9.75" 10" 20" 30" 40" 12.7 24.8 25.4 50.8 76.2 101.6 cm

Outside diameter: 2.7" (6.9 cm) Inside diameter: 1.0" (2.54 cm) Surface area: 8.5 ft² (0.79 m²)

per 10" element

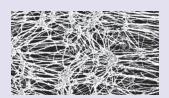
## **Operating Parameters**

Maximum operating temperature: 203°F (95°C)

Maximum differential pressure: 80 psid @ 70°F (5.5 bar @ 21°C) 40 psid @ 160°F (2.8 bar @ 71°C)

Maximum reverse differential pressure: 40 psid @ 70°F (2.8 bar @ 21°C)

Recommended change-out pressure: 35 psid (2.4 bar)



## TefTEC™ Series Filter Cartridges

# Absolute Rated PTFE Membrane Filter Cartridges

TefTEC cartridge filters are constructed with naturally hydrophobic PTFE membrane and polypropylene support layers and components. The HIMA retentive PTFE membrane offers superior hydrophobicity and water intrusion resistance compared to PVDF and polypropylene membranes, and the cartridge construction offers a cost-effective alternative to all-fluorocarbon filters. TefTEC filters are ideal for gas/vent applications and the filtration of aggressive chemicals and solvents.

#### **FEATURES & BENEFITS**

- High surface area, single-layer construction provides superior flow rates and minimizes filtration system size
- 100% Flushed with 18 M $\Omega$ -cm DI water and integrity tested
- Filters are manufactured, flushed, tested and packaged in an ISO Class 7 Cleanroom Environment
- Each filter element stamped with pore size, lot and serial number for identification and traceability
- · Complete qualification guide available
- Available prewet for use with aqueous based chemicals

#### **CERTIFICATIONS**

- USP Class VI: Meets USP Class VI Biological Test for Plastics
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, 177.1520, and 177.1550 as applicable for food and beverage contact.
- European Directive for Food Contact: European Regulation No. 1935/2004 and European Regulation 10/2011: Tested for migration behavior and is suitable for contact with all kinds of foodstuffs with minimal rinse-up. Data available upon request.

#### TYPICAL APPLICATIONS

- Aggressive chemicals
- Compressed gases
- Photoresists
- Pharmaceutical Intermediates

- Strong acids/basesSolvents
- Hot DI water
- •
- Fermentation air

Tank Vents

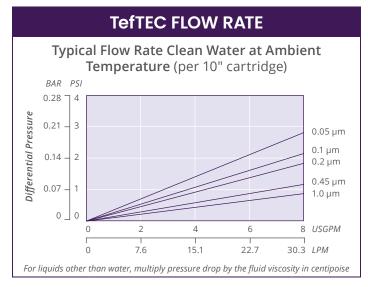
#### PERFORMANCE SPECIFICATIONS

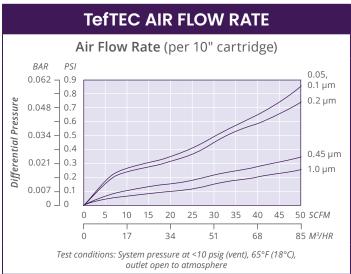
 Steam/Autoclave: Cartridges will withstand at least 100 steam/autoclave thirty-minute cycles @ 275°F (135°C)

TefTEC NOMENCLATURE INFORMATION										
Filter Type	Retention Rating (microns)		Nominal Length (in)		End Configuration		Gasket or O-Ring		Options	
TefTEC Series	0.05 0.1 0.2 e: TefTEC (	0.45 1 0.1–20P2	-5 -9.75* -10	-20 -30 -40	P P2 P3 P7 P8 P28 AM NPC	Double Open End 226/Flat Single Open End 222/Flat Single Open End 226/Fin Single Open End 222/Fin Single Open End 222 w/3 tabs/Fin Single Open End Single Open End, Internal O-Ring Double Open End, Internal O-Ring	B E S T	Buna-N EPDM Silicone Teflon encap. Viton (O-Rings only) Teflon (gaskets) Viton	-W	Pre- Wet
TefTEC	0.1		-20		P2	, ,	S		-W	

1.0 µm

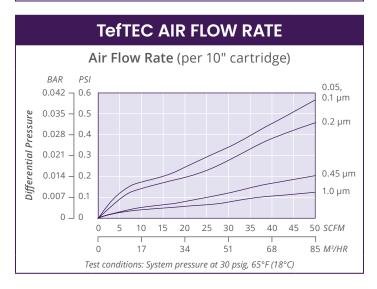
<sup>\*</sup>Available only for DOE (P) configuration





# INTEGRITY TEST SPECIFICATIONS Air Diffusion per 10-inch cartridge wet with 60/40 IPA/water. Contact Graver Technologies for specific method. Pore Size Specification $0.05 \, \mu m \leq 50 \, \text{cc/min} @ 22 \, \text{psig} (1.5 \, \text{bar})$ $0.1 \, \mu m \leq 50 \, \text{cc/min} @ 18 \, \text{psig} (1.2 \, \text{bar})$ $0.2 \, \mu m \leq 35 \, \text{cc/min} @ 12 \, \text{psig} (0.8 \, \text{bar})$ $0.45 \, \mu m \leq 15 \, \text{cc/min} @ 5 \, \text{psig} (0.34 \, \text{bar})$

≤ 15 cc/min @ 3 psig (0.2 bar)



#### FOR MORE INFORMATION

GTX-297 9-24

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