

#### FILTRATION | SEPARATION | PURIFICATION



#### **Product Specifications**

**Media:** Expanded PTFE Membrane **Inner core, end caps, cage:** Polypropylene

Support layers: Polypropylene

Gaskets/O-Rings:

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 ft<sup>2</sup> (0.79 m<sup>2</sup>)

per 10" element

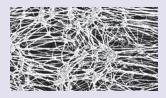
#### **Operating Parameters**

**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.

Compressed gases

#### TYPICAL APPLICATIONS

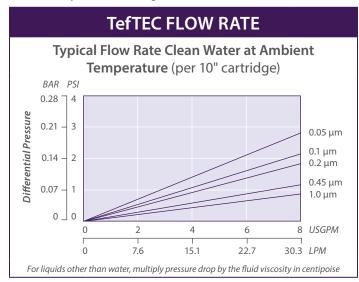
- Aggressive chemicals
- Strong acids/bases
- SolventsTank Vents
- Photoresists
- Hot DI water
- Pharmaceutical Intermediates
- Fermentation air

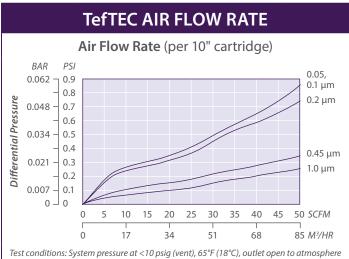
#### PERFORMANCE SPECIFICATIONS

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

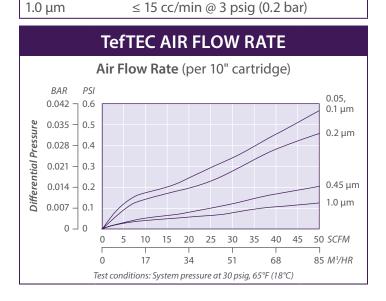
TefTEC NOMENCLATURE INFORMATION										
Filter Type	Retention Rating (microns)		Nominal Length (in)		End Configuration		Gasket or O-Ring		Options	
TefTEC Series	0.05 0.1 0.2 e: TefTEC 0	0.45 1 0.1–20P2	-5 -9.75* -10	-20 -30 -40	P P2 P3 P7 P8 AM NPC	Double Open End  226/Flat Single Open End  222/Flat Single Open End  226/Fin Single Open End  222/Fin Single Open End  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	

<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 $0.05 \ \mu m \le 50 \ cc/min @ 22 \ psig (1.5 \ bar)$ $0.1 \ \mu m \le 50 \ cc/min @ 18 \ psig (1.2 \ bar)$ $0.2 \ \mu m \le 35 \ cc/min @ 12 \ psig (0.8 \ bar)$ $0.45 \ \mu m \le 15 \ cc/min @ 5 \ psig (0.34 \ bar)$



#### FOR MORE INFORMATION

GTX-297 6-21

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