

## 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 rating: 0.2 μm

## **Dimensions**

## **Nominal lengths:**

10" 20" 30" 40"

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: 8.6 ft<sup>2</sup> (0.80 m<sup>2</sup>)

per 10" element

## **Operating Parameters**

**Maximum operating temperature:** 195°F (90°C)

## Maximum differential pressure:

75 psid @ 70°F (5.2 bar @ 21°C)

30 psid @ 176°F (2.1 bar @ 80°C)

15 psid @ 195°F (1.03 bar @ 95°C)

Maximum reverse differential pressure:

40 psid @ 70°F (2.8 bar @ 21°C)

Recommended change-out pressure:

35 psid (2.4 bar)



## **TefTEC™ P Series Filter Cartridges**

## Sterilizing Grade PTFE Membrane Filter Cartridges

TefTEC P membrane cartridges are validated for complete bacterial retention to yield product sterility in biopharmaceutical final filtration applications. TefTEC P cartridge filters are constructed with naturally hydrophobic e-PTFE membrane with polypropylene support layers and components. The sterilizing grade PTFE membrane cartridges are well suited for compressed air applications, fermentation feed air and tank vent applications where absolute microbial retention is critical. Additionally, TefTEC P has demonstrated viral aerosol retention to provide essential protection for final products.

## **FEATURES & BENEFITS**

- Single-layer construction provides superior flow rates and minimizes filtration system size
- 100% Flushed with 18 megohm 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 bacterial removal in liquid at a challenge level of 10<sup>7</sup> Brevundimonas diminuta/cm<sup>2</sup> per 10" cartridge
- · Retentive for aerosolized virus
- · Validation guide available

## **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.

## TYPICAL APPLICATIONS

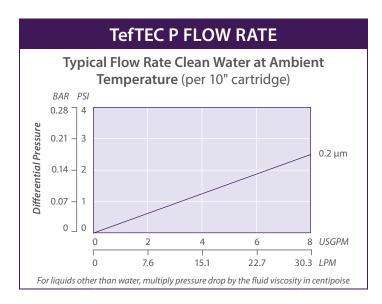
- Tank Vents
- Fermentation Feed Air
- Compressed gases
- Aggressive chemicals

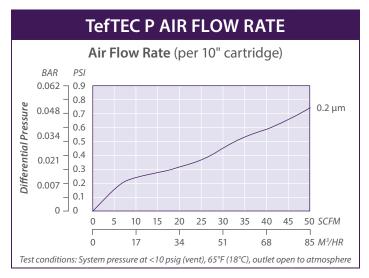
### PERFORMANCE SPECIFICATIONS

- Steam/Autoclave: Cartridges will withstand at least 100 steam/autoclave 30 minute cycles @ 275°F (135°C)
- Integrity Test Values: Bubble Point and Air Diffusion per 10 inch cartridge wet with 60/40 IPA/water. Contact Graver Technologies for specific method.
- Published Water Intrusion values

TefTEC P NOMENCLATURE INFORMATION							
Filter Type	Retention Rating (microns)	Nominal Length (inches)		End Configuration		Gasket or O-Ring	
TefTEC P Series	0.2	-10	-30	P2	226/Flat Single Open End	В	Buna-N
		-20	-40	Р3	222/Flat Single Open End	Ε	EPDM
				P7	226/Fin Single Open End	S	Silicone
				P8	222/Fin Single Open End	Т	Teflon encap. Viton (O-Rings only)
Example: TefTEC P 0.2–20P2S					V	Viton	
TefTEC P	0.2	-20		P2		S	

 $0.2 \mu m$ 

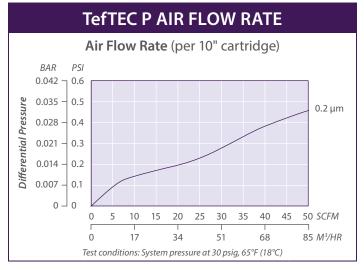




# INTEGRITY TEST SPECIFICATIONS Integrity Test values per 10-inch cartridge wet with 60/40 IPA/water. Contact Graver Technologies for specific method. Pore Size Diffusion Flow Bubble Point ≤ 20 cc/min @

12 psig (0.83 bar)

≥ 26 psig



## FOR MORE INFORMATION

GTX-365 1-20

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