

Product Features

GFTP membrane cartridges are validated for complete bacterial retention to yield product sterility in biopharmaceutical final filtration applications. GFTP cartridge filters are constructed with naturally hydrophilic e-PTFE 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 crucial. Additionally, GFTP has demonstrated viral aerosol retention to provide essential protection for final products.

Advantages

- Manufactured in an ISO Class 7 Cleanroom Environment
- Single-layer construction provides superior flow rates
- 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 $10^7/\text{cm}^2$ *Brevundimonas diminuta*

Certifications

- USP Class VI: Meets USP Class VI Biological Tests for Plastics
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5 and 177.1520, as applicable for food and beverage contact

Performance Specifications

- Published Water Intrusion values
- Steam/Autoclave: Cartridges will withstand at least 100 30-minute cycles @ 275°F (135°C)
- Integrity Test Values: Bubble Point and Air Diffusion wet with 60/40 IPA/water

Product Specifications

Media:

Expanded PTFE membrane

Core, End Caps, Cage:

Polypropylene

Support Layers:

Polypropylene

Gasket/O-Rings:

Many options available

Dimensions:

Outside Diameter: 2.7" (6.86 cm)

Inside Diameter: 1.0" (2.54 cm)

Surface Area: 8.6 ft² (0.8 m²) per 10"

Operating Parameters

Maximum Operating Temperature:

195 °F (90°C)

Maximum Differential Pressure:

80 psid @ 70°F (4.14 bar @ 21°C)

40 psid @ 160°F (2.8 bar @ 71°C)

15 psid @ 195°F (1.03 bar @ 95°C)

**Recommended Change Out
Pressure:**

35 psid (2.4 bar)

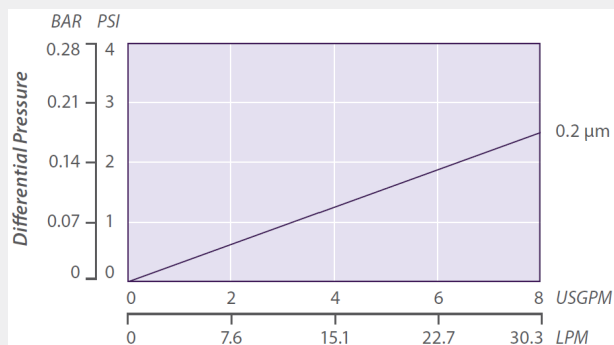


GFTP NOMENCLATURE INFORMATION

Filter Type	Retention Rating (microns)	Nominal Length (inches)	End Configuration	Gasket or O-Ring
GFTP	0.2	-10 -20 -30 -40	-P2 (226/flat single open end) -P3 (222/flat single open end) -P7 (226/fin single open end) -P8 (222/fin single open end)	B (Buna-N) E (EPDM) S (silicone) T (Teflon encap. Viton, o-rings only) V (Viton)

GFTP Flow Rate

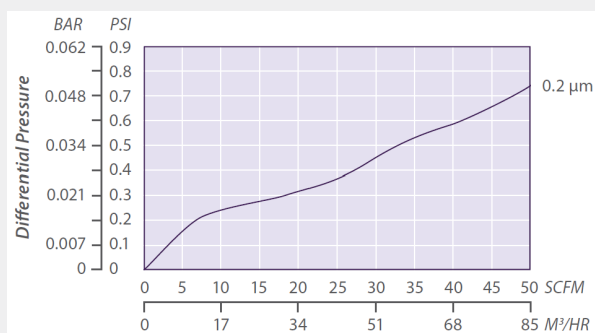
Typical Flow Rate Clean Water at Ambient Temperature
(per 10" cartridge)



For liquids other than water, multiply pressure drop by the fluid viscosity in centipoise

GFTP Air Flow Rate

Typical Air Flow Rate
(per 10" cartridge)



Test Conditions: System pressure at <10 psig (vent), 65°F (21°C), outlet open to atmosphere

Integrity Test Specifications

Pore Size	Bubble Point	Diffusive Air Flow
0.2 µm	≥ 26 psig	≤20 cc/min @ 12 psig (0.83 bar)



CANADA WEST

3247 Roper Road NW
Edmonton, AB T6P 0G1
1-877-456-5760
saleswc@vytal.ca
www.vytal.ca

CANADA EAST

441 Applewood Crescent
Concord, ON L4K 4J3
1-888-233-1969
salesec@vytal.ca
www.vytal.ca

USA

345 E Tulare Ave
Visalia, CA 93277
1-424-222-7619
saleswusa@vytalusa.com
www.vytalusa.com