Graver Technologies

FILTRATION | SEPARATION | PURIFICATION

ZTEC™ G Series Filter Cartridges

Absolute Rated Polyethersulfone Membrane Pleated Filter Cartridges

Product Specifications

Media: Asymmetric Polyethersulfone Membrane

Inner core, end caps, cage: Polypropylene

Support layers: Spunbonded Polypropylene

Gaskets/O-Rings: Buna-N, EPDM, Silicone, Teflon Encapsulated Viton (O-Rings only), Teflon (gaskets), Viton

Micron ratings: 0.1, 0.2, 0.45, 0.65 µm

Dimensions

Nominal lengths:

9.75"	10"	20"	30"	40"
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: 7.0 ft^2 (0.65 m^2) per 10" element

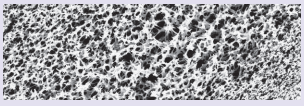
Operating Parameters

Maximum sustained operating temperature: 176°F (80°C) at 20 psid (1.38 bar)

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)



This pleated, disposable filter element is constructed of absolute rated, hydrophilic, asymmetric polyethersulfone membrane with extended filter area to allow for a high system flow rate.

FEATURES & BENEFITS

- 7.0 ft^2 (0.65 m^2) of membrane surface area per 10" element — High throughput, longer on-line service reduces costly maintenance time
- Absolute rated membrane from 0.1 to 0.65 µm
- Manufactured in an ISO Class 7 cleanroom environment
- 100% flushed with 18 MΩ -cm DI water and gross integrity tested
- Fixed pore construction eliminates dirt unloading as differential pressure increases
- Low extractables

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 177.2440 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

- Food and Beverage
- Filtration of acids and bases
- Cosmetics
- Inks
- Chemicals
- Ultra pure water
- Aqueous solutions

PERFORMANCE SPECIFICATIONS

- Hot DI Water: Filter cartridge will withstand temperatures of 185°F (85°C) for up to 30 consecutive minutes.
- Cleaning/Sanitization: Compatible with most common chemical cleaning, sanitizing and sterilizing agents and with pH range from 1–14. Consult factory for specific compatibility information.
- Steam/Autoclave: Cartridges may be steamed or autoclaved for at least 50 thirty-minute cycles @ 275°F (135°C).

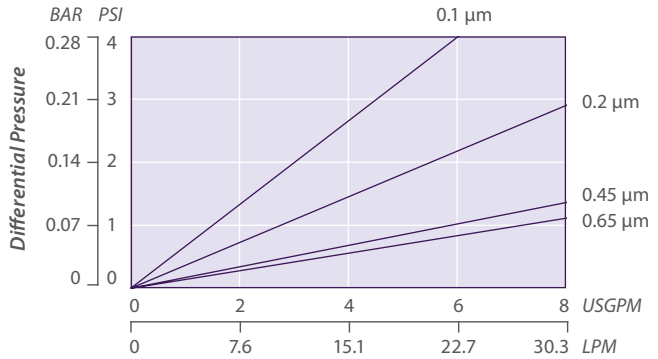
ZTEC G NOMENCLATURE INFORMATION

Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring	
ZTEC G Series	0.1	0.45	–5	–20	P	Double Open End	B	Buna-N
	0.2	0.65	–9.75*	–30	P2	226/Flat Single Open End	E	EPDM
			–10	–40	P3	222/Flat Single Open End	S	Silicone
					P7	226/Fin Single Open End	T	Teflon encap. Viton (O-Rings only)
					P8	222/Fin Single Open End		
					AM	Single Open End, Internal O-Ring	T	Teflon (gaskets)
					NPC	Double Open End, Internal O-Ring	V	Viton
Example: ZTEC G 0.1–10P7S								
ZTEC G	0.1		–10		P7		S	

*Available only for DOE (P) configuration

ZTEC G 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

FOR MORE INFORMATION **GTX-258 10-21**

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