



# 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  $\mu\text{m}$

### 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  $\text{ft}^2$  (0.65  $\text{m}^2$ )  
per 10" element

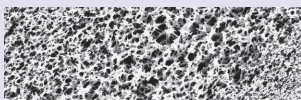
### Operating Parameters

**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  $\text{ft}^2$  (0.65  $\text{m}^2$ ) 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  $\mu\text{m}$
- Manufactured in an ISO Class 7 cleanroom environment
- 100% flushed with 18 M $\Omega$ -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
- Inks
- Ultra pure water
- Filtration of acids and bases
- Chemicals
- Aqueous solutions
- Cosmetics

## 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).

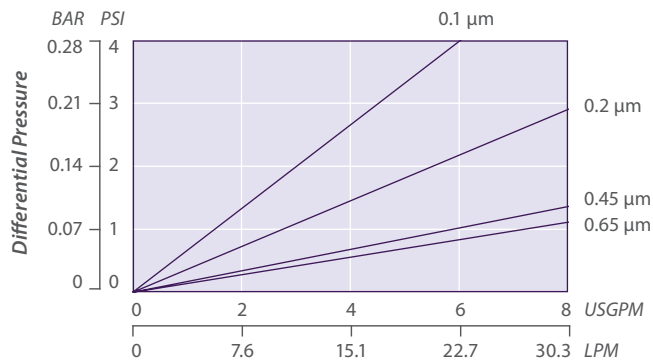
### ZTEC G NOMENCLATURE INFORMATION

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	T	Teflon (gaskets)
				AM	Single Open End, Internal O-Ring	V	Viton	
				NPC	Double Open End, Internal O-Ring			
<b>Example: ZTEC G 0.1-10P7S</b>								
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

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