

## FGE-Series Economy Grade Pleated Microglass Media

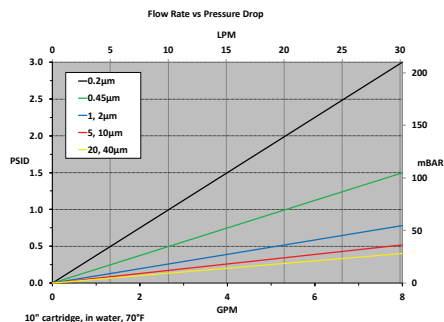
FGE-Series High Purity Economy Grade Pleated Borosilicate Microglass Filter Cartridges offer high efficiency retention of particulate matter from liquid and gaseous fluid streams. Favored for its superior retention efficiency, low pressure drop, and greater contaminant loading capacity relative to alternative medias. The FGE-Series is often the preferred choice when the application calls for a more economical option or where the 2.5" OD is required.

Suitable for food and potable water contact, the FGE-Series meets the high performance demands in food and beverage production. Also suitable for use in a broad range of applications, including process water, lubricants, and a range of fine chemicals. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.

Offered in both absolute-rated (up to 99.98% retention) and nominally-rated (90% retention) grades in common adapter configurations.



### Flow Rate vs Pressure Drop



\*All data is based on absolute rated medias. Nominally rated medias will result in a pressure drop reduction of approximately 10%.

### Typical Applications

- Food & Beverage
- Deionized Water
- Process Water
- Fine Chemicals
- Wastewater
- Produced Water
- Wine Clarification
- Sweeteners

### Construction Materials

**Filtration Media** .....Borosilicate microglass with acrylic binder

**Support Media** .....Spun-bonded Polyester

**End Caps** .....Polypropylene

**Center Core** .....Glass-Reinforced Polypropylene

**Outer Support Cages** .....Polypropylene

**O-Rings/Gaskets** .....Buna, EPDM, Silicone  
Teflon® Encapsulated Viton®, Viton®

### Dimension (Nominal)

**Length** ..... 10 to 40 in (25.4 cm to 101.6 cm)

**Outside Diameter** .....2.50 in (6.35 cm)

### Operating Conditions

**Change Out ΔP (recommended)** ..... 35 PSID (2.4 bar)

**Temperature (max)** ..... 176°F (80°C)

**Differential Pressure (max)** ..... 60 PSID at 68°F (4.1 bar at 20°C)

### Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI – 121°C for plastics.

### Food Safety Compliance

Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21CFR. Materials used to produce filter media and hardware are deemed safe for use in contact with foodstuffs in accordance with EU Directives 1935/2004, and/or 10/2011.

### Ordering Information

FGE	Rating(µ)	Retention	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	0.2	A = Absolute	9.75" (24.76cm)		2 = DOE Flat Gasket <sup>1</sup>	B = Buna		CS = 316SS Compression Spring
	0.45	N= Nominal	10" (25.4 cm)		3 = 222 w/Fin	E = EPDM		I = Stainless Steel Insert
	1.0		19.5" (49.53 cm)		4 = 222 w/Flat Cap	S = Silicone		SS = Stainless Steel Core
	2.0		20" (50.8 cm)		5 = 222 w/Spring	T = Teflon® Encapsulated Viton® <sup>1</sup> *		
	5.0		29.25" (74.29 cm)			V = Viton® *		
	10.0		30" (76.2 cm)					
	20.0		39" (99.1 cm)					
	40.0		40" (101.6 cm)					

1 - When ordering with DOE Flat Gasket, gasket style "T" = ePTFE (Expanded Teflon® - no encapsulation)

DISCLAIMER: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required. For additional technical support, a product Performance Guide is available upon request.

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