

# PharmBiologic Solutions, LLC

## Advancing custom solutions

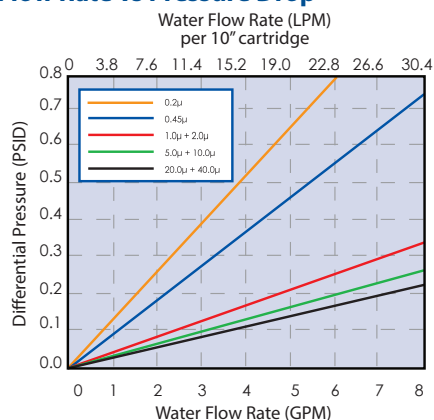


### High Purity - FG Pleated Microglass Cartridge

**Pleated Microglass Cartridges** offer an economical, absolute rated, filtration solution for both liquids and gases. They offer excellent flow rates and long service life with an exceptional ability to retain both deformable and non-deformable particles. FG cartridges are constructed with absolute rated borosilicate microglass media that offers high dirt-loading capacities. The natural positive charge of the glass also aids in the retention of negatively charged particulates such as bacteria, endotoxins and a variety of colloidal materials. FG cartridges are offered in both absolute (to 99.98%) and nominal (90%) retention efficiencies.



#### Flow Rate vs Pressure Drop



#### Typical Applications

- Membrane Pre-Filtration
- Sterile Air
- Corn Syrup
- R.O. Pre-Filtration
- Wine Clarification
- Hydrocarbons

#### Ordering Information

FG	Rating (µ)	Retention	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	0.2	A = Absolute	10" (25.4 cm)		2 = DOE Flat Gasket	B = Buna		I = Stainless Steel Insert
	0.45	N = Nominal	20" (50.8 cm)		3 = 222 w/ Fin	E = EPDM		SS = Stainless Steel Core
	1.0		30" (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		CS = 316ss Compression Spring
	2.0		40" (101.6 cm)		5 = 222 w/ Spring	V = Viton®		
	5.0				6 = 226 w/ Flat Cap	T = Teflon® Encapsulated Viton®		
	10.0				7 = 226 w/ Fin	Z = Teflon® Encapsulated Silicone		
	20.0				8 = 226 w/ Spring			
	40.0				16 = 213 Internal O-Ring			

#### Construction Materials

**Filtration Media** - FDA Borosilicate Microglass with acrylic binder.

**Support Media** - Spun-bonded polyester laminated on both upstream and downstream sides.

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

**Center Core**..... Glass-reinforced Polypropylene

**Outer Support Cage**.....Polypropylene

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

**Note:** Contact factory for information on high-temperature stainless construction options.

#### Sanitization/Sterilization

**Filtered Hot Water**.....80°C for 30 min.

**Steam Sterilization**.....121°C for 30 min., multiple cycles

**Chemicals:** Cartridges are chemically compatible with most chemicals and sanitizing agents.

**Note:** Stainless steel insert option needed for all cartridges being hot water sanitized or steam sterilized.

#### Dimensions

**Length:**

10 to 40 inches (25.4 to 101.6 cm) nominal

**Outside Diameter:**

2.75 inches (7.0 cm) nominal

#### Maximum Recommended Operating Conditions

**Change Out**.....ΔP 35 PSI

**Temperature**.....200°F (93°C)

**Note:** Optional High Temperature Construction available.

#### FDA Listed Materials

Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

#### Toxicity

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

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.

