

# PharmBiologic Solutions, LLC

## Advancing custom solutions

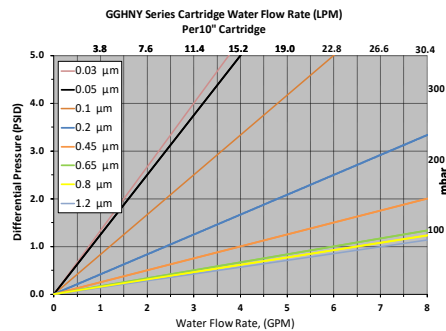


### High Purity - Food and Beverage Grade Nylon 6,6 and Plus+ Nylon 6,6 Hydrophilic Nylon 6,6 for the Food and Beverage Industry

**Food and Beverage Grade Nylon 6,6 Cartridges** have been designed to comply with all FDA requirements for the food industry. GFHNY cartridges are available in both standard and Plus+ grades. The Plus+ grade membrane is modified with a highly positive charge; allowing for the removal of particles that are significantly smaller than the membrane's rating (such as endotoxins). Each cartridge is flushed with high purity DI water and 100% integrity tested to deliver clean effluent as well as low extractables. The Extended Area option (GFHNYX) offers up to 40% more surface area. This additional area results in significant increases in flowrate and loading-capacity in the same footprint.



#### Flow Rate vs Pressure Drop



\* Data represents GFHNY. For GFHNYX option, multiply given flowrate by 1.4.

#### Typical Applications

- Drinking Water
- Wine
- Soft Drinks
- Pharmaceutical
- Fermentation
- Endotoxin Removal

#### Ordering Information

GFHNY	Rating (μ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
GFHNY+	0.03		10" (25.4 cm)		2 = DOE Flat Gasket	B = Buna		I = Stainless Steel Insert
GFHNYX	0.05		20" (50.8 cm)		3 = 222 w/ Fin	E = EPDM		CS = 316ss Compression Spring
GFHNY+X	0.1		30" (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		
	0.2		40" (101.6 cm)		6 = 226 w/ Flat Cap	V = Viton®		
	0.45				7 = 226 w/ Fin	T = Teflon® Encapsulated Viton®		
	0.65				16 = 213 Internal O-Ring	Z = Teflon® Encapsulated Silicone		
	0.8							
	1.2							

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.

#### Construction Materials

**Membrane** .....Nylon 6,6  
**Support Media** .....Polypropylene  
**End Caps** .....Polypropylene  
**Center Core** .....Polypropylene  
**Outer Support Cage**.....Polypropylene  
**O-Rings/Gaskets**.....Buna, EPDM, Silicone, Viton®, Teflon® Encapsulated Viton®

#### Dimensions

**Length:**  
10 to 40 inches (25.4 to 101.6 cm) nominal  
**Outside Diameter:**  
2.70 inches (7.0 cm) nominal

#### Maximum Differential Pressures

**Forward**..... 50 PSI (3.4 bar) at 20°C  
**Reverse**..... 40 PSI (2.7 bar) at 20°C

#### Sanitization/Sterilization

**Filtered Hot Water**..... 80°C for 30 min.  
**Steam Sterilization**..... 121°C for 30 min., multiple cycles

#### FDA Listed Materials

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

**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.

#### Toxicity

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

