GHLS-Series Lofted Pleated Polypropylene

GHLS-Series High-Loft Pleated Polypropylene filter cartridges provide a 100% polypropylene element designed for removal of agglomerated and deformable contaminants in oils and gels. With its added loft, the GHLS is an ideal combination of both depth and pleated depth functionality. This allows for high retention and holding capacity without inhibiting throughput. The pleated depth media is encapsulated in an integral, continuous length, thermally-bonded structure for cleanliness, pressure tolerance, and chemical inertness. Offered in both absolute rated (up to 99.98% retention) and nominally rated (90% retention) grades in common adapter configurations. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.

Typical Applications

- Agglomerated Particles
- CBD Oils
- CMP Slurries
- Coatings
- Edible Oils
- Gels
- Inks
- Paints

Construction Materials

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

Sanitization/Sterilization

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

Chemicals: Cartridges are compatible with most chemical sanitizing agents.

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

[1] Stainless Steel Insert (I) Adder comes standard with the Heavy Poly Core (HP) for elements constructed with a 222 or 226 endcap

Dimensions

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

Operating Conditions

Change Out ΔP (recommended).....35 PSID
Temperature (max).....176˚F (80˚C)
Differential Pressure (max).....60 PSID (4.1 bar) at 68˚F (20˚C)

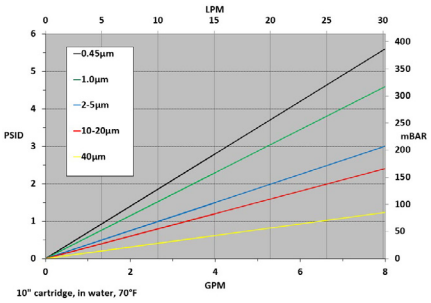
Toxicity

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.

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%.

Ordering Information

GHLS	Rating (µ)	Retention	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	0.45	A = Absolute	10” (25.4 cm)		2 = DOE Flat Gasket	B = Buna		CS = 316SS Compression Spring
	1.0	N = Nominal	20” (50.8 cm)		3 = 222 w/ Fin	E = EPDM		FG = Glass Reinforced PP Core
	2.0		30” (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		HP = Heavy Poly Core
	5.0		40” (101.6 cm)		5 = 222 w/ Spring	T = Teflon® Encapsulated Viton®		I = Stainless Steel Insert[1]
	10.0				6 = 226 w/ Flat Cap	V = Viton®		R = 18 Megaohm Rinse
	20.0				7 = 226 w/ Fin	Z = Teflon® Encapsulated Silicone		SS = Stainless Steel Core
	40.0				8 = 226 w/ Spring			
					16 = 213 Internal O-Ring			
					28 = 222 3-tabs w/ Fin			

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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