

GHLS-Series Lofted Pleated Polypropylene

GHLS-Series High-Loft Pleated Polypropylene filter cartridges provide an 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 cleanroom environment to maintain high standards of purity and cleanliness.



Construction Materials

Filtration Media.....Polypropylene
Support Media.....Polypropylene & PE/PET
End Caps.....Polypropylene
Center Core.....Polypropylene
Outer Support Cage.....Polypropylene
O-Rings/Gaskets.....Buna, EPDM, Silicone, FKM, FEP FKM, FEP Silicone, PTFE2

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, for the 222 and 226 connections.

Dimensions

Length.....25.4 to 101.6 cm
Outside Diameter.....7.0 cm

Operating Conditions

Change Out ΔP (recommended).....2,4 bar
Temperature (max).....80°C
Differential Pressure (max).....4.1 bar at 20°C

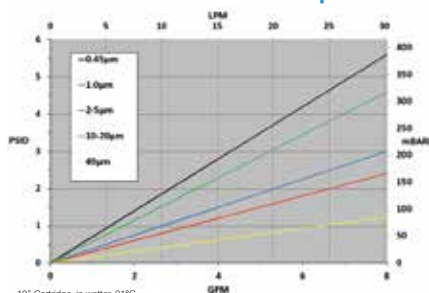
Toxicity

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.

Flow Rate vs Pressure Drop



10" Cartridge, in water, 21°C

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

Typical Applications

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

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	S = Silicone		I = Stainless Steel Insert ²
	5.0		40" (101.6 cm)		5 = 222 w/ Spring	T = FEP FKM (if O-ring and PTFE if DOE)		SS = Stainless Steel Core
	10.0		*		6 = 226 w/ Flat			R = 18 Megaohm Rinse ³
	20.0				7 = 226 w/ Fin			HP = Heavy Poly Core
	40.0				8 = 226 w/ Spring	V = FKM		
	*				16 = 213 Internal O-Ring ¹	Z = FEP Silicone		
					28 = 222 3-tabs w/ Fin			

*Other options on request

¹ Silicone and EPDM only

² Stainless Steel Insert (I) Adder comes in standard with the Heavy Poly Core (HP)

³ Made by Global Filter US in the USA

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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