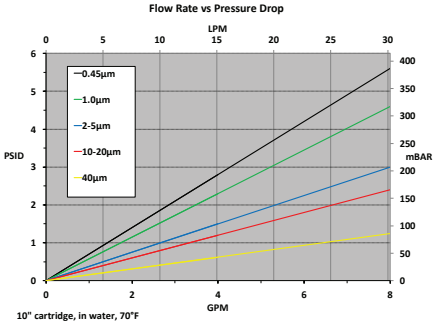
GHLS-Series Lofted Pleated Polypropylene

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 cleanroom environment to maintain high standards of purity and cleanliness.

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

- 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-Ring/Gasket ..... Buna, EPDM, Silicone, Teflon® Encapsulated Viton®[1], Viton®, Teflon® Encapsulated Silicone[2]

Dimension (Nominal)

Length ..... 10 to 40 in (25.4 to 101.6 cm)
Outside Diameter ..... 2.70 in (7.0 cm)

Operating Conditions

Change Out ΔP (recommended) ..... 35 PSID
Temperature (max) ..... 176°F (120°C)
Differential Pressure (max) ..... 60 PSID at 68°F (4.1 bar at 20°C)

NSF Certification applies for use only with drinking water. Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified. Product options denoted with asterisk (*) are not included in the Certification.

Certified to NSF/ANSI/CAN 61

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.

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

GHLS	Rating	Retention	Length	C	End Cap Style	O-Rings (For B & D Flange Only)	-	Adders
	0.45	A = Absolute	10" (25.4 cm)		2 = DOE Flat Gasket[1,2]	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
	5.00		40" (101.6 cm)		5 = 222 w/Spring	T = Teflon® Encapsulated Viton®[1]		I = Stainless Steel Insert[3]
	10.0				6 = 226 w/Flat Cap	V = Viton® *		R = Megaohm Rinse
	15.0				7 = 226 w/Fin	Z = Teflon® Encapsulated Silicone[2]		SS = Stainless Steel Core
	20.0				8 = 226 w/Spring			
	40.0				16 = 213 Internal O-Ring			
					28 = 222 3-Tabs w/ Fin			

1 - When ordering with DOE Flat Gasket, gasket style "T" = ePTFE (Expanded Teflon® - no encapsulation)
2 - When ordering with DOE Flat Gasket, gasket style "Z" is not available
3 -Stainless Steel Insert (I) Adder comes standard with the Heavy Poly Core (HP) for elements constructed with a 222 or 226 end cap.

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