Fulflo® Filter Bags

- Polyester
- Polypropylene
- Rayon
- Nomex®*
- Nylon

Filter Bag and Media Strainer Series

Fulflo® Filter Bags Provide High Quality, Consistent Filtration Performance

Fulflo® Filter Bags are ideal for virtually any process filtration application requiring the removal of solids. Parker's Fulflo filter bags are manufactured and tested under the strictest quality control standards to assure consistent performance. Parker's Fulflo filter bags perform at high flow rates and viscosities to 10,000 cps or higher.

XLH high efficiency filter bags perform at efficiencies similar to depth cartridges. XLH bags are available in 0.5µm, 1µm, 2.5µm, 5µm, 10µm and 25µm particle retention ratings.

Standard Fulflo Filter Bags are available in 1µm to 800µm particle retention ratings.

Applications

- Adhesives
- Beverages
- Bulk Chemicals
- Coatings
- Coolants
- Edible Oils
- Inks
- Liquid Detergents
- Paints
- Parts Washing Systems
- Petroleum Oils
- Prefilters for Finer Cartridges
- Resins
- Solvents
- Water

Standard Bag Features and Benefits

- Standard filter bags fit Fulfo vessels and most major competitive models.
- The "C" Style Fulflo bag features a standard, flexible, stainless steel band which positively self-seals the bag into standard Parker bag vessels.
- The "G" Style Fulflo bag features a carbon steel snap ring for positive sealing in Fulflo "GB" series and similar style competitive vessels.
- Fulflo Quik-Seal™ option is available for all "G" style Fulflo® filter bag media.
- Bags are available with glazed surface treatment to effectively control migration of fibers into the filtered product.
- Lofted mat type polyester bag is FDA grade.

XLH Features and Benefits

- Parker's XLH all-polypropylene high efficiency filter bags provide twice the dirt-holding capacity at a lower cost than many competitive bags and cartridges of the same micrometer rating.
- XLH bags require less frequent change out, less storage and disposal space, and are easy to install and remove.
- Each bag is incinerable (with Quik-Seal™ option or polypropylene ring), reducing filter disposal costs.
- Heavy-duty fabric handle makes removal fast and simple.
- All materials of construction are FDA listed as acceptable for potable and edible liquid contact according to CFR Title 21.

Process Filtration Division

Bulletin C-5030 Eff. 11/99, Rev. 03/03

Specifications

Effective Removal Ratings:

- 0.5µm to 800µm

Maximum Recommended Operating Conditions:

- Temperature:
  Polyester: 275°F (136°C)
  Viscose Rayon: 250°F (122°C)
  Polypropylene: 200°F (94°C)
  Monofilament and multifilament Nylon Mesh and Needled Felt: 275°F (136°C)
  Nomex®: 425°F (220°C)
  Multifilament Polyester Mesh: 275°F (136°C)
- Flow Rate: (Per single length)
  Standard Bag: 80 gpm (303 lpm)
  XLH: 25 gpm (95 lpm)
- Changeout ΔP: 35 psi (2.4 bar)
- Pressure: 70 psid (4.8 bar)

PPD Bag Dimensions:

- C1: 7-1/2 in x 18-3/8 in (191 mm x 468 mm)
- C2: 7-1/2 in x 31-1/2 in (191 mm x 800 mm)
- G1: 7 in x 17-1/4 in (177 mm x 438 mm)
- G2: 7 in x 31-1/4 in (177 mm x 94 mm)

Surface Area per Bag (ft² / cm²)

- C1: 2.5 / 2325
- C2: 4.5 / 4185
- G1: 2.0 / 1860
- G2: 4.4 / 4092

Volume per Bag (gal / liter)

- C1: 2.5 / 9.5
- C2: 4.7 / 18
- G1: 2.1 / 8
- G2: 4.6 / 17.5

XLH Filter Bag Retention Ratings

Rating (µm)	Particle Size (µm) at Which Efficiency Is: 90%	95%	99%
0.5	0.5	1	5
1	1	2	10
2.5	2.5	4	16
5	5	8	18
10	10	14	22
25	25	30	40

Bag Media Selection:

- **Microfiber**: FDA grade polypropylene microfiber used in the XLH bag series assures high-efficiency performance and is oil absorbent. Particle retention ratings from 0.5µm to 25µm.
- **Felt**: Synthetic needled fabric offers cost-effective depth filtration. Particle retention ratings from 1µm to 200µm.
- **Monofilament Mesh:** Single strand nylon with retention ratings from 50µm to 800µm.
- **Glazed**: In polypropylene or polyester felts, the surface fibers are melt bonded to one another, reducing the possibility of fiber migration.
- **Multifilament Mesh**: Strong fabric woven from twisted strands. Particle retention ratings from 150µm to 800µm.
- **Lofted Mat With Scrim**: Lofted mat covered by a nonwoven layer to prevent fibers from migrating into the filtered product. Particle retention ratings from 1µm to 200µm. Only polyester is FDA grade
- **High Temperature Nomex®**

XLH Flow Factors

Rating (µm)	Flow Factor
0.5	0.0185
1	0.0143
2.5	0.0133
5	0.0083
10	0.0043
25	0.0031

Standard Bag Flow Factors

Rating (µm)	Flow Factor
1	0.00083
3	0.00059
5	0.00044
10	0.00029
25	0.00017
50	0.00013
75	0.00008
100	0.00007

Flow Rate and Pressure Drop Formulae:

$$\text{Flow Rate (gpm)} = \frac{\text{Clean } \Delta P \times \text{Length Factor}}{\text{Viscosity} \times \text{Flow Factor}}$$

$$\text{Clean } \Delta P = \frac{\text{Flow Rate} \times \text{Viscosity} \times \text{Flow Factor}}{\text{Length Factor}}$$

Notes:

1. **Clean ΔP** is PSI differential at start.
2. **Viscosity** is centistokes. Use Conversion Tables for other units.
3. **Flow Factor** is ΔP/GPM at 1 cks for single length bag.
4. **Length Factors** convert flow or ΔP from from single length bags. Use length factor of 1 for single length and a factor of 2 for double length.

Ordering Information

G	2	PE	P	25	H	——	Q
Bag Style	*Bag Size*	*Media*	*Construction*	*Micron*	*Options*		
C = Flex Band (301/302 SS) G = Snap Ring (Carbon Steel)	1 = #1 (single) 2 = #2 (double)	PE = Polyester P = Polypropylene V = Viscose Rayon NOM = Nomex MN = Nylon Multifilament PEMU = Polyester Multifilament MNO = Nylon Monofilament	No Symbol = PPD Lofted Mat (FDA) P = Needled Felt (Non FDA) PG = Glazed Needled Felt (P and PE media only)	1, 3, 5, 10, 25, 50, 75, 100, 200 (PE) 1, 3, 5, 10, 25, 50, 100 (P) 5, 10, 25, 50, 75, 100 (V) 5, 10, 25, 50, 100(NOM) 150 (MN) 150, 250, 300, 400, 600, 800 (PEMU) 50, 75, 100, 150, 200, 250, 300, 400, 600, 800 (MNO) 0.5,1, 2.5, 5, 10, 25 (XLH)	H = Handle ("G" style) N = Polyester Mesh Cover (150µm) P = Polypropylene Ring ("G" Style) S = 304 SS Ring ("G" Style) W = Welded Seam		DS = Drawstring Top LR = Without Ring ("G" style) Q = Quik-Seal™ Polypro Ring R = Reverse Collar XLH = High Efficiency Bag (Polypropylene Only)

Note: XLH standard "G" ring is 304 SS.
"Q" style ring not available for viscose rayon

* A trademark of E. I. duPont de Nemours & Co.

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