

GIANT Filter Bags

Polypropylene and Polyester



Our GIANT bag filters have a unique seal ring that ensures the most efficient means of bag filtration. All bags are 100% polypropylene or polyester with plastisol (PVC) seal ring and are available in micron ratings from 1 to 200.

These filter bag filters are designed to fit Porvair's exclusive line of 10" and 20" plastic filter housings.

Polyester bags are recommended for hot water applications applications to 180°F (82°C) when used in conjunction with Porvair's Nylon bag housings.

These are available in the compact 10" length – very adaptable to side stream testing applications – and the more versatile 20" double length.

The maximum operating temperatures of these polypropylene and polyester bags are 140°F (60°C) and 180°F (82°C), respectively. When using these polypropylene bags in our GIANT talc polypropylene, styrene acrylonitrile (SAN) and/or natural polypropylene housings, the maximum operating temperature should not exceed 125°F (52°C).

Features and Benefits

- Unique Plastisol seal ring designed to eliminate process bypass.
- These filter bags offer high solids collection with low pressure drop which reduces operating costs.
- When used with Porvair's bag housings, the systems offer a compact, cost effective lightweight alternatives to metal bag housing systems.

Typical Applications

GIANT bag filters are suitable for the filtration of a wide range of process liquids.

Typical applications include:

- **Food and Beverage**
Process water, polishing lines and clarification.
- **General Industrial and Process Water Prefiltration**
Particulate removal prior to reverse osmosis polishing.
- **Fine Chemicals (polypropylene housings)**
For the clarification and sterilization of a wide range of process chemicals.
- **Coatings**
Coating lines, solvents, inks and dyes.

For other size bag filters, please contact a member of the sales team.

GIANT Bag Pressure Drop (20" bags at 40gpm) Vs Viscosity

Viscosity	1M	5M	10M	25M	50M	100M	200M
1	0.1	0.1	0.1				
5	0.4	0.2	0.1	0.1	0.1		
10	0.7	0.3	0.2	0.1	0.1		
20	1.3	0.7	0.4	0.3	0.2	0.1	
30	2.1	0.9	0.6	0.3	0.3	0.1	0.1
40	2.8	1.1	0.8	0.5	0.3	0.1	0.1
60	3.2	1.7	1.1	0.6	0.5	0.2	0.2
80	3.9	2.1	1.5	0.9	0.6	0.3	0.3
100	5.5	2.8	1.9	1.1	0.9	0.4	0.3
200	10.7	5.5	3.7	2.2	1.7	0.8	0.6
400	19.3	10.0	6.3	3.9	3.5	1.6	1.0
600	24.0	13.3	8.7	4.8	4.5	2.4	1.3
1000		17.3	12.0	7.3	6.7	3.2	1.9
1500		20.7	13.3	8.7	8.0	4.2	2.1
2000			20.0	12.0	11.3	5.9	3.0
4000				16.0	14.7	6.7	4.2
6000				24.0	22.7	13.3	6.1
8000						18.7	9.3
10,000						22.7	12.7

Ordering Guide

Product Number	Material		Micron Rating	Max. Flow Rate GPM (LPM)
	Polypropylene	Polyester		
BAG 1-10	052673PP	052673PE	1	40 (152)
BAG 5-10	052674PP	052674PE	5	40 (152)
BAG 10-10	052675PP	052675PE	10	40 (152)
BAG 25-10	052676PP	052676PE	25	40 (152)
BAG 50-10	052677PP	052677PE	50	40 (152)
BAG 100-10	052678PP	052678PE	100	40 (152)
BAG 200-10	052679PP	052679PE	200	40 (152)
20" Bags to fit 20" housings with bag adaptor				
BAG 1-20	052680PP	052680PE	1	50 (190)
BAG 5-20	052681PP	052681PE	5	50 (190)
BAG 10-20	052682PP	052682PE	10	50 (190)
BAG 25-20	052683PP	052683PE	25	50 (190)
BAG 50-20	052684PP	052684PE	50	50 (190)
BAG 100-20	052685PP	052685PE	100	50 (190)
BAG 200-20	052686PP	052686PE	200	50 (190)

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