



# OPTIGLASS

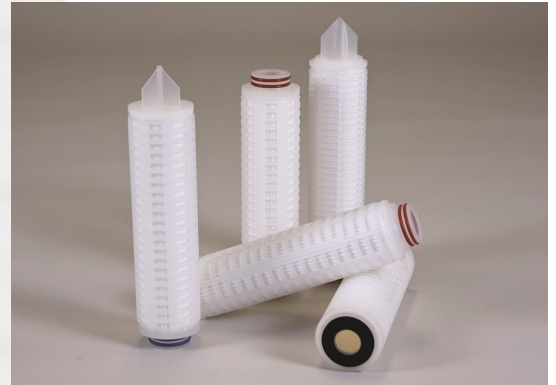
## PLEATED GLASS FIBER FILTER

### For Liquids

The pleated glass fiber filter cartridges have been designed as effective membrane pre filters and as final polishing filters for all liquid processing applications due to the excellent dirt holding capacity that they offer.

These cartridges have been rinsed with high purity water to remove manufacturing debris that could contaminate the product. This washing also removes extractables that may affect characteristics such as foaming or brightness.

This cartridge is designed to give maximum throughput because of gradient density construction. This allows for cartridge cleaning and re-used in some applications.



### FEATURES AND BENEFITS

- Each cartridge is tested for integrity and is 99% efficient at the rated pore size
- Consistent reliable performance
- Micron rating range from 0.22 to 30µm
- Extremely high dirt holding capacity
- Excellent chemical compatibility
- All materials are designed to meet the FDA Title 21 CFR requirements, for food contact products and for non-fiber releasing filters.
- All materials used to make the filters are listed in European Commission Regulations EU/10/2011, Annex 1
- Optional high strength core for improved thermal stability at continuously elevated temperatures
- Typical applications: Beverage (clarification), bottled water, process water, air and gases, soft drinks, cosmetics, syrups

### TECHNICAL SPECIFICATIONS

#### CARTRIDGE DIMENSIONS

- Outer diameter: 69mm / 2.75"
- Length: 5" - 127mm 10" - 254mm 20" - 508mm 30" - 762mm  
40" - 1016mm

#### MATERIALS OF CONSTRUCTION

- Filtration media: Pleated fiberglass depth media
- Media support: Polyester
- Core/cage/End caps: Polypropylene
- End cap insert (optional): 316L stainless steel
- Standard O' ring/gaskets: Buna, Viton (or FKM), EP, Silicone, FEP en capsulated silicone, FEP encapsulated viton (or FKM)

#### EFFECTIVE FILTRATION AREA (EFA)

- 0.54m<sup>2</sup> / 5.8ft<sup>2</sup> per 10" / 254mm

### MAXIMUM OPERATING PARAMETERS

Differential Pressure	Forward → 50 psid / 3.4 bard @ 20°C / 68°F
	Reverse → 40 psid / 2.7 bard @ 20°C / 68°F
Operating Temperature	82°C / 180°F @ 10 psid / 0.69 bard in water
Recommended Changeout Pressure	35 psid / 2.4 bard

### SANITIZATION / STERILIZATION

Filtered Hot Water	90°C / 194°F, 30 minutes, multiple cycles, max 3 psid forward flow
Autoclave	121°C / 250°F, 30 minutes, multiple cycles
In-line Steam	135°C / 275°F, 30 minutes, multiple cycles
Chemical Sanitization	Performed using industry standard concentrations of hydrogen peroxide, paracetic acid, sodium hypochlorite, and other selected chemicals

### TYPICAL FLOW RATES

Pore Size	0.22µm	0.30µm	0.45µm	0.65µm	1.0µm	2.0µm	3.0µm	5.0µm	10µm	20µm	30µm
GPM	2.6	3.0	5.0	6.0	8.0	10	12	14	15	> 15	> 15
LPM	9.84	11.35	18.92	22.71	30.28	37.85	45.42	52.99	56.78	56.78	56.78

### ORDERING INFORMATION

