

PureFlo® Glass Microfiber Filter Capsules

PureFlo® Borosilicate Microfiber filter cartridges are highly retentive filters that have a pleated design to maximize surface area. The borosilicate microfiber media in an all-polypropylene construction provides excellent chemical compatibility and superior flow per unit area. No adhesives or surfactants are used in the manufacturing process. The borosilicate microfiber is “non-fiber releasing.”

The borosilicate microfiber is ideally-suited for aggressive microbial retention. In addition, the media provides superior flow and pressure drop characteristics per unit area. PureFlo Microfiber filter cartridges are well-suited for critical applications where superior flow and particle retention for deformable and non-deformable particle removal is required.

Applications	
Prefiltration	Biologics
Serums	Bio-burden reduction
Pharmaceuticals	Retention of deformable particles
Wine Clarification	Inks
Food & Beverage	Cosmetics

**Regulatory Compliance**  
Manufactured from materials that conform to the requirements of USP Class VI Biological Test for Plastics.



**Materials of Construction**

- Media: Non-Woven Borosilicate Microfiber
- Pleate Supports: Polypropylene
- Cage, Core, End Caps: Polypropylene
- Fitting Connections: NPT, Couplings
- Compression, Hose Barb, Sanitary Flange

**Dimensions (TC fittings)**

- Length: 1.5 in (128 mm)    Length: 2.5 in (155 mm)
- Length: 5.0 in (210 mm)    Length: 7.5 in (270 mm)
- Length: 10 in (340mm)
- Diameter: 2.75 in (70 mm)

**Effective Filtration Area**

- 1.5 in - 0.48 ft² (450 cm²)    2.5 in - 1.0 ft² (950 cm²)
- 5.0 in - 1.8 ft² (1700 cm²)    7.5 in - 4.3 ft² (3980 cm²)
- 10 in - 3.66 ft² (3400 cm²)

**Operating Conditions**

- Maximum Operating Pressure:
  - Liquid: 5.5 bar (80psi) at 77°F/25°C
  - Gas: 4.1 bar (60psi) at 77°F/25°C
- Minimum Burst Pressure:
  - 8.3 bar (120psi) at 77°F/25°C
- Maximum Forward Differential Pressure:
  - 4.21 bar (60psi) at 68°F/20°C
- Maximum Reverse Differential Pressure:
  - 2.1 bar (30psi) at 68°F/20°C
- Maximum Operating Temperature:
  - PP & Gamma PP: 176°F/80°C
  - HDPE: 140°F/60°C

Features	Benefits
<ul style="list-style-type: none"> <li>■ Borosilicate Microfiber Media (Absolute Rated)</li> </ul>	<ul style="list-style-type: none"> <li>■ High dirt-loading capacity</li> <li>■ Natural positive charge</li> <li>■ Superior process throughputs</li> </ul>
<ul style="list-style-type: none"> <li>■ Wide Chemical &amp; Thermal Compatibility</li> </ul>	<ul style="list-style-type: none"> <li>■ Provides excellent compatibility</li> <li>■ No media migration</li> </ul>
<ul style="list-style-type: none"> <li>■ Quality Construction</li> </ul>	<ul style="list-style-type: none"> <li>■ No adhesives or surfactants</li> <li>■ Thermally welded construction</li> </ul>

## PureFlo® Glass Microfiber Filter Capsules



Inlet/Outlet Fittings	Vent and Drain fittings
1H = 1/8" Hose barbs	Luer Lock
1NF = 1/8" FNPT	Luer Lock
2C = 1/4" Compression	1/4" Comp
2H = 1/4" to 1/2" Hose barbs	Luer Lock
2HS = 1/4" to 3/8" Hose barbs	Luer Lock
2L = Large Female Luer Lock fitting	Luer Lock
2N = 1/4" MNPT	Luer Lock
2NF = 1/4" FNPT	Luer Lock
2Q = 1/4" Male Quick Coupling	Luer Lock
2QF = 1/4" Female Quick Coupling	Luer Lock
2QFP = 1/4" Female Quick Coupling with Plastic latch	Luer Lock
2QP = 1/4" Male Quick Coupling for Plastic latch	Luer Lock
3C = 3/8" Compression	1/4" Comp
3H = 3/8" Hose Barb (future)	Luer Lock
3HE = 3/8" Hose Barb Elbow	Luer Lock
3NF = 3/8" FNPT	Luer Lock
4C = 1/2" Compression	1/4" Comp
4H = 1/2" Hose Barb (future)	Luer Lock
4N = 1/2" MNPT	Luer Lock
4QP = 1/2" Male Quick Coupling for Plastic latch	Luer Lock
MT = 0.5" Tri clamps	Luer Lock
TC = 1-1/2" Tri clamp	Luer Lock

**Option: Plugged and Cut off Vent and/or Drains**

### PureFlo Glass Fiber Filter Cartridge Ordering Guide

PureFlo Capsule Filters	Vent & Drain Fitting	Filter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Options	
<b>SK</b>  70mm Diameter Capsule	<b>L</b> = Female Luer Lock  <b>P</b> = M8 Threaded Plug - <u>Limited options</u>  <b>N</b> = No vent or drain fittings	<b>G</b> = Glass Fiber	<b>004</b> = 0.45 <b>005</b> = 0.5 <b>010</b> = 1.0 <b>030</b> = 3.0 <b>050</b> = 5.0 <b>100</b> = 10.0 <b>200</b> = 20.0 <b>300</b> = 30.0	<b>H</b> = 1.5" <b>S</b> = 2.5" <b>L</b> = 5" <b>E</b> = 7.5" <b>K</b> = 10"	<b>1H</b> = 1/8" Hose barbs <b>1NF</b> = 1/8" FNPT <b>1Q</b> = 1/8" Male Quick Coupling for Metal latch <b>1QF</b> = 1/8" Female Quick Coupling w/Metal latch <b>2C</b> = 1/4" Compression <b>2H</b> = 1/4" to 1/2" Hose barbs <b>2HS</b> = 1/4" to 3/8" Hose barbs <b>2LF</b> = Large Female Luer Lock fitting <b>2N</b> = 1/4" MNPT <b>2NF</b> = 1/4" FNPT <b>2Q</b> = 1/4" Male Quick Coupling for Metal latch <b>2QF</b> = 1/4" Female Quick Coupling w/Metal latch <b>2QFP</b> = 1/4" Female Quick Coupling w/Plastic latch <b>2QP</b> = 1/4" Male Quick Coupling for Plastic latch <b>3C</b> = 3/8" Compression <b>3H</b> = 3/8" Hose Barb <b>3HE</b> = 3/8" Hose Barb Elbow <b>3NF</b> = 3/8" FNPT <b>4C</b> = 1/2" Compression <b>4H</b> = 1/2" Hose Barb <b>4N</b> = 1/2" MNPT <b>4QP</b> = 1/2" Male Quick Coupling for Plastic latch <b>MT</b> = 1/2" Tri clamps <b>TC</b> = 1-1/2" Tri clamp	<b>1H</b> = 1/8" Hose barbs <b>1NF</b> = 1/8" FNPT <b>1Q</b> = 1/8" Male Quick Coupling for Metal latch <b>1QF</b> = 1/8" Female Quick Coupling w/Metal latch <b>2C</b> = 1/4" Compression <b>2H</b> = 1/4" to 1/2" Hose barbs <b>2HS</b> = 1/4" to 3/8" Hose barbs <b>2LF</b> = Large Female Luer Lock fitting <b>2N</b> = 1/4" MNPT <b>2NF</b> = 1/4" FNPT <b>2Q</b> = 1/4" Male Quick Coupling for Metal latch <b>2QF</b> = 1/4" Female Quick Coupling w/Metal latch <b>2QFP</b> = 1/4" Female Quick Coupling w/Plastic latch <b>2QP</b> = 1/4" Male Quick Coupling for Plastic latch <b>3C</b> = 3/8" Compression <b>3H</b> = 3/8" Hose Barb <b>3HE</b> = 3/8" Hose Barb Elbow <b>3NF</b> = 3/8" FNPT <b>4C</b> = 1/2" Compression <b>4H</b> = 1/2" Hose Barb <b>4N</b> = 1/2" MNPT <b>4QP</b> = 1/2" Male Quick Coupling for Plastic latch <b>MT</b> = 1/2" Tri clamps <b>TC</b> = 1-1/2" Tri clamp	<b>-GP</b> = Gamma stable polypropylene shell <b>-NY</b> = Nylon Construction <b>-FB</b> = Filling bell <b>-FC</b> = Filling bell w/Cap <b>-ETO</b> = Ethylene oxide sterilization <b>-NI</b> = No vent or drain inlet fitting <b>-NO</b> = NO vent or drain Outlet fitting <b>-E</b> = Polyethylene shell and HDPE media support for gamma sterilization	<b>O-Ring for Quick Coupling</b> <b>-OE</b> = O-ring EPDM <b>-ON</b> = O-ring Nitrile <b>-OV</b> = O-ring Viton <b>Blank</b> = O-ring Silicon (Standard)  <b>PreFilters</b> <b>-G(pore Size)</b> = Glass Fiber PreFilter <b>-P(pore Size)</b> = PolyPro Media PreFilter <b>-S(pore Size)</b> = PES PreFilter
			<b>Example</b> - SK Series Capsule, Luer Lock V/D, 2.5" Internal filter, 0.3 micron Glass Fiber Capsule, Standard Grade, with 1.5" Tri-Clamp fittings would be <b>SKLG030STCTC</b>					

Quick Couplings are molded. Female Quick Coupling with Plastic latch will be threaded on, compatible with CPG (Colder), LinkTech and others.