

## 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 ft<sup>2</sup> (450 cm<sup>2</sup>) 2.5 in - 1.0 ft<sup>2</sup> (950 cm<sup>2</sup>)  
 5.0 in - 1.8 ft<sup>2</sup> (1700 cm<sup>2</sup>) 7.5 in - 4.3 ft<sup>2</sup> (3980 cm<sup>2</sup>)  
 10 in - 3.66 ft<sup>2</sup> (3400 cm<sup>2</sup>)

### 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

■ Borosilicate Microfiber Media (Absolute Rated)	■ High dirt-loading capacity ■ Natural positive charge ■ Superior process throughputs
■ Wide Chemical & Thermal Compatibility	■ Provides excellent compatibility ■ No media migration
■ Quality Construction	■ No adhesives or surfactants ■ Thermally welded construction

## 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		
SK  70mm Diameter Capsule	L = Female Luer Lock  P = M8 Threaded Plug - <u>Limited options</u>  N = No vent or drain fittings	G = Glass Fiber	004 = 0.45	H = 1.5"	1H = 1/8" Hose barbs	1H = 1/8" Hose barbs	-GP = Gamma stable polypropylene shell	O-Ring for Quick Coupling	
			005 = 0.5	S = 2.5"	1NF = 1/8" FNPT	1NF = 1/8" FNPT	-NY = Nylon Construction		-OE = O-ring EPDM
			010 = 1.0	L = 5"	1Q = 1/8" Male Quick Coupling for Metal latch	1Q = 1/8" Male Quick Coupling for Metal latch	-FB = Filling bell		-ON = O-ring Nitrile
			030 = 3.0	E = 7.5"	1QF = 1/8" Female Quick Coupling w/Metal latch	1QF = 1/8" Female Quick Coupling w/Metal latch	-FC = Filling bell w/Cap	-OV = O-ring Viton	
			050 = 5.0	K = 10"	2C = 1/4" Compression	2C = 1/4" Compression	-ETO = Ethylene oxide sterilization	Blank = O-ring Silicon (Standard)	
			100 = 10.0		2H = 1/4" to 1/2" Hose barbs	2H = 1/4" to 1/2" Hose barbs	-NI = No vent or drain inlet fitting	PreFilters	
			200 = 20.0		2HS = 1/4" to 3/8" Hose barbs	2HS = 1/4" to 3/8" Hose barbs	-NO = NO vent or drain Outlet fitting		-G(pore Size) = Glass Fiber PreFilter
			300 = 30.0		2LF = Large Female Luer Lock fitting	2LF = Large Female Luer Lock fitting	-E = Polyethylene shell and HDPE media support for gamma sterilization		-P(pore Size) = PolyPro Media PreFilter
					2N = 1/4" MNPT	2N = 1/4" MNPT		-S(pore Size) = PES PreFilter	
					2NF = 1/4" FNPT	2NF = 1/4" FNPT			
					2Q = 1/4" Male Quick Coupling for Metal latch	2Q = 1/4" Male Quick Coupling for Metal latch			
					2QF = 1/4" Female Quick Coupling w/Metal latch	2QF = 1/4" Female Quick Coupling w/Metal latch			
					2QFP = 1/4" Female Quick Coupling w/Plastic latch	2QFP = 1/4" Female Quick Coupling w/Plastic latch			
					2QP = 1/4" Male Quick Coupling for Plastic latch	2QP = 1/4" Male Quick Coupling for Plastic latch			
					3C = 3/8" Compression	3C = 3/8" Compression			
		3H = 3/8" Hose Barb	3H = 3/8" Hose Barb						
		3HE = 3/8" Hose Barb Elbow	3HE = 3/8" Hose Barb Elbow						
		3NF = 3/8" FNPT	3NF = 3/8" FNPT						
		4C = 1/2" Compression	4C = 1/2" Compression						
		4H = 1/2" Hose Barb	4H = 1/2" Hose Barb						
		4N = 1/2" MNPT	4N = 1/2" MNPT						
		4QP = 1/2" Male Quick Coupling for Plastic latch	4QP = 1/2" Male Quick Coupling for Plastic latch						
		MT = 1/2" Tri clamps	MT = 1/2" Tri clamps						
		TC = 1-1/2" Tri clamp	TC = 1-1/2" Tri clamp						
Example - 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 SKLG030STCTC									
Quick Couplings are molded. Female Quick Coupling with Plastic latch will be threaded on, compatible with CPG (Colder) LinkTech and others.									

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

#### Your Local Distributor:

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