

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

■ 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

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