

## PureFlo Charged Nylon Capsules (SKV Series)

### Charged Nylon Capsule

PureFlo® SKV Series Charged Nylon filter capsules are highly retentive, naturally hydrophilic nylon membrane filters that have been specially designed for liquid applications to reduce endotoxins. The charged nylon membrane in an all-polypropylene construction provides excellent chemical compatibility and superior flow per unit area as compared to other membrane capsules. No adhesives, binders, or surfactants are used in the manufacturing process. All capsules are rinsed with high-purity water to reduce extractables and downtime.

The naturally hydrophilic charged nylon membrane does not require pre-wetting with IPA and flushing with DI water, thereby eliminating a potential source of contamination and hazardous waste.

All filter capsules are 100% integrity tested to ensure filter performance each and every time out of the package. PureFlo® charged nylon filter capsules are well-suited for critical applications where superior flow and particle removal efficiency at 0.05, 0.1, 0.2, 0.45, 0.65, 0.8 and 1.2 micron is required.



### Applications

Solvents	Water
Hard Particle	Beverages
Cell Removal	Pharmaceuticals
Endotoxin Reduction	Biologics

### Specifications

Materials of Construction: Media: Naturally Hydrophilic Charged Nylon  
Media Supports: None  
Cage, Core, End Caps: Polypropylene  
Sealing: Thermally bonded

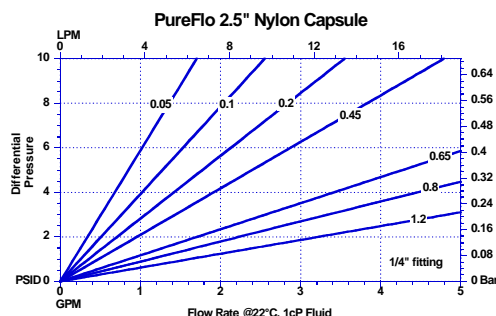
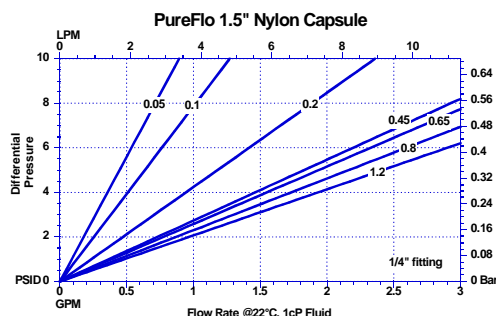
Fitting Connections: See ordering guide for the availability.  
(Custom adaptors available upon request)

Nominal Dimensions: Length: 1.5 in. (38 mm), 2.5 in. (75 mm), 5in. (127 mm),  
7.5 in. (191 mm), and 10 in. (254 mm)  
Diameter: 2.88 in. (73 mm)

Effective Filtration Area: 1.5 in - 0.74 ft<sup>2</sup> (690 cm<sup>2</sup>), 2.5 in - 1.4 ft<sup>2</sup> (1300 cm<sup>2</sup>),  
5.0 in - 2.64 ft<sup>2</sup> (2450 cm<sup>2</sup>), 7.5 in - 4.0 ft<sup>2</sup> (3720 cm<sup>2</sup>),  
10 in - 5.3 ft<sup>2</sup> (4920 cm<sup>2</sup>)

Operating Conditions: Maximum Operating Pressure: Liquid: 5.5 bar (80 psi) at 22 °C  
Gas: 4.1 bar (59.5 psi) at 22 °C  
Maximum Forward Differential Pressure: 4.2 bar (61 psi) at 22 °C  
Maximum Reverse Differential Pressure: 2.1 bar (30.5 psi) at 22 °C  
Minimum Burst Pressure: 8.3 bar (120 psi) at 22 °C  
Maximum Operating Temperature: 60 °C

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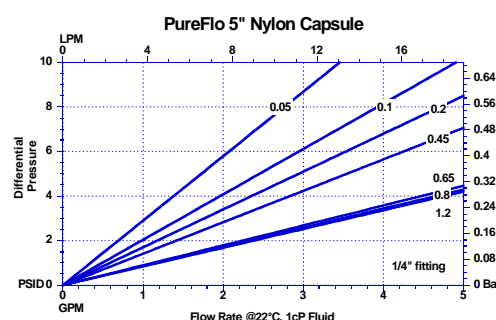
### Specifications (cont.)

#### Autoclavable & Sanitizable:

Capsules can be autoclaved 5 times at 125 °C (257 °F) for 30 minutes or chemically sanitized in situ using common sanitizing agents or hot water at 90 °C (194 °F) for a limited time (dependent on time and temperature). Capsules must not be in situ steam-sterilized.

#### Regulatory Compliance:

The filters are constructed with polypropylene resins and filtration media in compliance with 21 CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastic.



### PureFlo SKV Series Charged Nylon Capsule Ordering Guide

PureFlo Capsule Filters	Filter Media	Pore size (Micron)	Internal Filter Length	Input Fitting	Output Fitting	Options		
SKV  70mm Diameter Capsule with Bleed Valve	CN = Charged Nylon	005 = 0.05	H = 1.5"	1H	1H = 1/8" Hose barbs	Shell Material  Blank = Polypro construction  -E = Polyethylene shell and HDPE media support for gamma sterilization -GP = Gamma stable polypropylene shell -NY = Nylon Shell  Sterilization  -ETO = Ethylene oxide sterilization  Vent & Drain  -N= No vent or drain fittings -NI = No vent or drain inlet fitting -NO = No vent or drain Outlet fitting	O-Ring for Quick Coupling	
		010 = 0.10	S = 2.5"	1Q	1Q = 1/8" Male Quick Coupling with Metal latch		-OE = O-ring EPDM	
		020 = 0.20	L = 5"	1QF	1QF = 1/8" Female Quick Coupling with Metal latch			-ON = O-ring Nitrile
		045 = 0.45	E = 7.5"	1QFV	1QFV = 1/8" Female Valved Quick Coupling with Metal latch			-OV = O-ring Viton
		065 = 0.65	K = 10"	1QV	1QV = 1/8" Male Valved Quick Coupling with Metal latch			Blank = O-ring Silicon
		080 = 0.80		2H	2H = 1/4" Hose barb			Prefilters
		120 = 1.20		2HL	2HL = 1/4" to 1/2" Hose barbs			-G(pore Size) = Glass Fiber PreFilter
				2H-FB	2H-FB = 1/4" Hose Barb with filling bell -FC with Cap			-P(pore Size) = PolyPro Media PreFilter
				2N	2N = 1/4" MNPT			-S(pore Size) = PES PreFilter
				2P	2P = 1/4" Push to Connect			
				2PE	2PE = 1/4" Push to Connect Elbow			
				2Q	2Q = 1/4" Male Quick Coupling for Metal latch			
				2QF	2QF = 1/4" Female Quick Coupling with Metal latch			
				2QFV	2QFV = 1/4" Female Valved Quick Coupling with Metal latch			
				2QP	2QP = 1/4" Male Quick Coupling for Plastic latch			
				2QV	2QV = 1/4" Male Valved Quick Coupling with Metal latch			
				2V	2V = 1/4" Walther Quick Connect			
				3H	3H = 3/8" Hose Barb			
					3H-FB = 3/8" Hose Barb with filling bell or -FC with Cap			
					4H = 1/2" Hose Barb			
			4Q = 1/2" Male Quick Coupling for Plastic latch					
			5H = 5/8" Hose Barb					
			MT = 1/2" Tri clamps					
			TC = 1-1/2" Tri clamp					
			TS = Shower Head			Silicone O-Rings for Bleed Valve and Quick Coupling fittings		
Example - PureFlo SKV Series Capsule, Charged Nylon, 2.5" internal filter, 0.2 micron, with 1.5" Tri-Clamp fittings 1/O, would be SKVCN020STCTC								
Note: Quick Couplings are molded on. Female Quick Coupling with Plastic latch will be threaded on. Compatible with CPC (Colder), LinkTech and others.								

Your Local Distributor:

**ZenPure**

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