

SKV Series PTFE Filter Capsules

Capsule filter

The PureFlo® SKV Series PTFE filter capsules with all polypropylene construction provide excellent compatibility and superior flow per unit area. The SKV capsules incorporate built-in bleed valves for simple and efficient evacuation of air and liquid from the upstream side.

The hydrophobic PTFE membrane is ideally suited for sterilizing gas in biopharmaceutical applications and in aggressive chemicals. In addition, the hydrophobic membrane provides superior flow and pressure-drop characteristics for tank venting applications. PureFlo PTFE filter capsules are well-suited for critical applications where superior flow and retention is required.

The units are used for filtration of small to medium volumes used in production, laboratory and pilot runs. No adhesives, binders, or surfactants are used in the manufacturing process of these capsules. They are rinsed with high-purity water to reduce extractables and downtime. All filter capsules are 100% integrity tested to ensure filter performance each and every



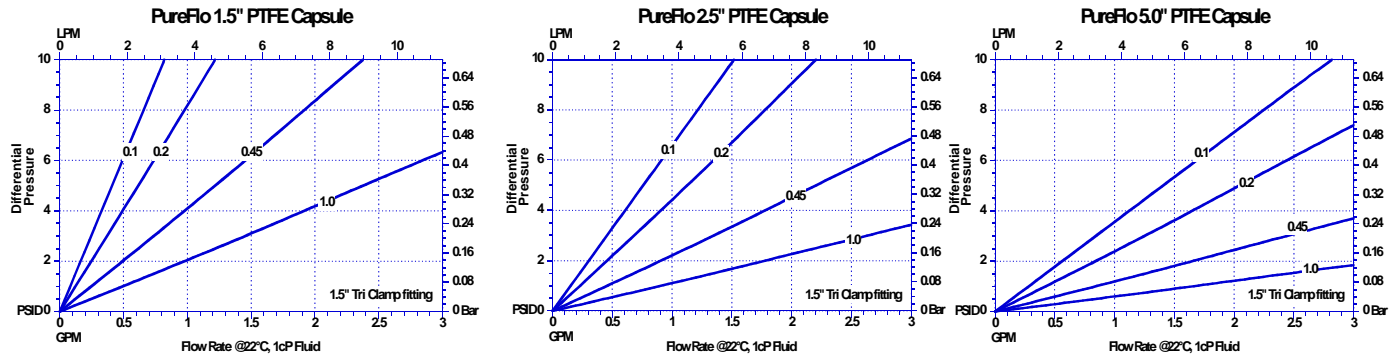
Applications

Buffer and Media	Fermentation Tanks
Product Sterilization	SVP (Small Volume Parenterals)
Bio Bags	Pharmaceuticals
Gas filtration	Biologics
Antibiotics	Venting
Water	Serums

Specifications

Materials of Construction: <i>(Standard Option)</i>	Media: Hydrophobic PTFE Media Supports: Polypropylene Cage, Core, End Caps: Polypropylene O-Rings: Silicone Sealing: Thermal End Capping
Fitting Connections:	See ordering guide for the availability. (Custom adaptors available upon request)
Nominal Dimensions:	Length: 1.5" (38 mm), 2.5" (63 mm), 5" (127 mm), 7.5" (190 mm), and 10" (254 mm) Diameter: 2.8" (73 mm)
Effective Filtration Area: <i>(Single Layer/PP Construction)</i>	1.5": 0.70 ft ² (620 cm ²), 2.5": 1.3 ft ² (1200 cm ²), 5.0": 2.6 ft ² (2400 cm ²), 7.5": 4.3 ft ² (3600 cm ²), 10": 5.2 ft ² (4800 cm ²)
Operating Conditions:	Maximum Operating Pressure: Liquid: 5.5 bar (80 psi) at 72 °F/22 °C Gas: 4.1 bar (60 psi) at 72 °F/22 °C Maximum Forward Differential Pressure: 5.0 bar (72 psi) at 72 °F/22 °C Maximum Reverse Differential Pressure: 3.0 bar (44 psi) at 72 °F/22 °C Minimum Burst Pressure: 8.3 bar (120psi) at 72 °F/22 °C Maximum Operating Temperature: PP & Gamma PP: 176 °F/80 °C HDPE: 140 °F/60 °C

SKV Series PTFE Filter Capsules



Note - Graphs based on 1.5" Sanitary

PureFlo SKV Series PTFE Filter Capsule Ordering Guide

PureFlo Capsule Filters	Filter Media	Pore size	Internal Filter Length	Inlet Fitting	Outlet Fitting	Options	
SKV 70 mm Diameter capsule with bleed valve	F = PTFE	010 = 0.1 µm 020 = 0.2 µm (0.01 µm for gas) 045 = 0.45 µm 100 = 1.0 µm 300 = 3.0 µm 500 = 5.0 µm 999 = 10 µm	H = 1.5" S = 2.5" L = 5.0" E = 7.5" K = 10"	1H	1H = 1/8" Hose barb	(1) Prefilter (Add Before Filter Media In Part#) (2) Vent & Drain G (pore size) = Glass fiber prefilter P (pore size) = PolyPro media prefilter S (pore size) = PES prefilter (3) Construction Materials Blank = Polypropylene -E = Polyethylene shell and media support -WVP = White polypropylene shell and polypropylene media support (4) O-Ring Blank = O-ring silicone (standard) -OE = O-ring EPDM -ON = O-ring Buna-N -OV = O-ring FKM (5) Sterilization -ETO = Ethylene oxide sterilization	-N = No vent or drain fittings -NI = No vent or drain inlet fitting -NO = No vent or drain outlet fitting
				1Q	1Q = 1/8" Male quick coupling with metal latch		
				1QF	1QF = 1/8" Female quick coupling with metal latch		
				1QFV	1QFV = 1/8" Female valved quick coupling with metal latch		
				1QV	1QV = 1/8" male valved quick coupling with metal latch		
				2H	2H = 1/4" Hose barb		
				2H-FB	2H-FB = 1/4" Hose barb with filling bell -FC with cap		
				2HL	2HL = 1/4" to 1/2" Hose barbs		
				2N	2N = 1/4" MNPT		
				2NF	2NF = 1/4" FNPT		
				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						
2QFP	*2QFP = 1/4" Female quick coupling for metal latch						
2QV	2QV = 1/4" Male valved quick coupling with metal latch						
2V	2V = 1/4" walter quick connect						
3H	3H = 3/8" Hose barb						
3HE	3HE = 3/8" Hose barb elbow						
3H-FB	3H-FB = 3/8" Hose barb with filling bell or -FC with cap						
4H	4H = 1/2" Hose barb						
4N	4N = 1/2" MNPT						
4Q	4Q = 1/2" Male quick coupling for plastic latch						
5H	5H = 9/16" Hose barb						
MT	MT = 1/2" Tri clamp						
RM	RM = 1/2" Tri clamp with full SS insert ring						
RT	RT = 1 1/2" Tri clamp with full SS insert ring						
SM	SM = 1/2" Trip clamp with SS insert ring						
ST	ST = 1 1/2" Tri clamp with SS insert ring						
TC	TC = 1 1/2" Tri clamp						
	TS = Shower head						

Example - PureFlo SKV Series Capsule, PTFE membrane, 2.5" internal filter, 0.2 µm, with 1.5" Tri-Clamp fittings 1/0, would be SKVF020STCTC

*Fittings installed by threaded connection. All others are thermally bonded to or molded on shell.
 Note: Quick couplings are compatible with CPC (Colder), LinkTech, and others.

Your Local Distributor:

ZenPure

Americas and EMEA:
 ZenPure Americas, Inc
www.zenpure.com
Info-us@zenpure.com
 703-335-9910

Asia:
 ZenPure Corporation
www.zenpure.com
info@zenpure.com
 +86 571 2288 6800



ZenPure and PureFlo are registered trademarks of ZenPure Corporation or an affiliated company. Copyright 2003-2014 ZenPure or an affiliated company. All rights reserved.