



International Filter Products

Revolutionary systems for your industry

SKV Series Glass Microfiber Filter Capsules

SKV Series Glass Microfiber filter capsule with all polypropylene construction provides excellent chemical compatibility and superior flow per unit area as compared to other membrane capsules. The borosilicate microfiber is ideally suited for aggressive microbial retention in liquid applications for its wet ability.

PureFlo® Glass Microfiber Capsules are well-suited for critical applications where retention / removal of deformable and nondeformable particles is required.

Application

- Buffers and Media
- SVP (Small Volume Parenteral)
- Vaccines
- Fine Chemicals
- Product Sterilization
- Acids & Bases
- Biologics
- Ultrapure Water
- Fermentation Broths
- Pharmaceuticals
- Antibiotics
- Serums

Part Number: SKVNG010K5H5H



SKV Series Capsule
with 5/8" Hose Barb Inlet
and Outlet Connection



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Technical Data Sheet

Popular Configuration:

Catalog Number	Micron Rating	Inlet Connection	Outlet Connection	Vent Connection	Sterilization
SKVNG010K5H5H	1.0 µm	5/8" Hose Barb	5/8" Hose Barb	Bleed Valve with 1/8" Hose Barb	Optional

❖ Find the complete list of available standard inlet and outlet fittings in page 5.

Micron Rating:

Final Media: 1.0 µm Natural Glass Microfiber

Effective Filtration Area:

K-Size; 5.6 ft² (5,200 cm²)

Materials of Construction:

Media: Glass Microfiber

Media Supports: Polyester

Shell, Cage, Core, End Caps: Polypropylene

Valve O-Rings: Silicon (Standard)

Sealing: Thermally Bonded

Operating Conditions:

Maximum Forward Differential 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: 5.0 bar (72psi) at 68°F/20°C

Maximum Reverse Differential Pressure: 3.0 bar (44psi) at 68°F/20°C

Maximum Operating Temperature: 176°F/80°C

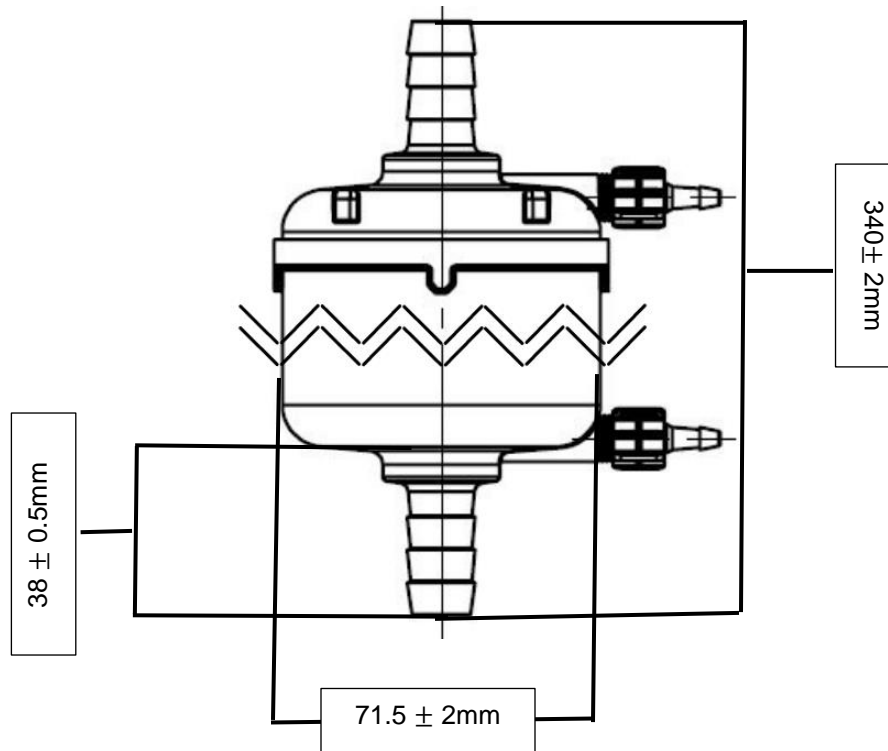


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Nominal Dimension:

Part Number: SKVNG010K5H5H



Hold-Up Volume (Approx.):

Upstream Volume: 340 ml

Downstream Volume: 35 ml

Sterilization:

Capsules can be autoclaved 25 times at 125 °C (257°F) for 30 minutes.

Warning: The filters cannot be sterilized by steam-in-place (SIP)

Regulatory Compliance:

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

Human and Veterinarian Use:

The product is safe for Human and Veterinarian use. CGMP CFR part 210 & 211, additional requirement of 21 CFR part 600 and 21 CFR part 680 are applicable to the aseptic manufacturing process.

Animal-Derived Components & TSE/BSE Risk:

No animal-derived material is intentionally added or used during the manufacture of this product.

Shelf Life:

The SKV capsules have a shelf life of 3 years from the date of sterilization.



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SKV - Series NG Mid-Size Capsules

Ordering Guide



[1]	[2]	[3] Inlet and [4] Outlet
Micron Rating (Pre-Filter/Final Filter)	Filter Size Code [Filtration Area]	Inlet and Outlet Connection
<ul style="list-style-type: none"> • NG002 : 0.2 µm • NG005 : 0.5 µm • NG010 : 1.0 µm • NG030 : 3.0 µm • NG050 : 5.0 µm • NG100 : 10.0 µm 	<ul style="list-style-type: none"> • H [Filtration Area: 720 cm²] • S [Filtration Area: 1380 cm²] • L [Filtration Area: 2600 cm²] • E [Filtration Area: 3980 cm²] • K [Filtration Area: 5200 cm²] 	<ul style="list-style-type: none"> • 1H : 1/8" Hose Barb • 2H : 1/4" Hose Barb • 3H : 3/8" Hose Barb • 4H : 1/2" Hose Barb • 5H : 5/8" Hose Barb • MT : 1/2" Tri-Clamp • TC : 1 1/2" Tri-Clamp

Example:

SKVNG010K5H5H

PureFlo SKV Series Capsule, 1.0 µm Natural Glass Microfiber Media, 10.0", K-Size, Filtration Area 5,200 cm², 5/8" Hose Barb (Inlet/Outlet)

Part Number

Description



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Special Configuration:

Layer Option:

- Single Layer
- Dual Layer

Micron Rating Option:

- 0.2 μm
- 0.5 μm
- 1.0 μm
- 3.0 μm
- 5.0 μm
- 10.0 μm

Bleed Valve Seal Option:

- Silicone
- EPDM
- Nitrile
- Viton

Inlet Fitting Option:

- 1H = 1/8" Hose Barb
- 1Q = 1/8" Male Quick Coupling with Metal Latch
- 2H = 1/4" Hose Barbs
- 2HS = 1/4" to 3/8 " Hose Barb
- 2Q = 1/4" Male Quick Coupling for Metal Latch
- 3H = 3/8" Hose Barb
- 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

Outlet Fitting Option:

- 1H = 1/8" Hose Barb
- 1Q = 1/8" Male Quick Coupling with Metal Latch
- 2H = 1/4" Hose Barbs
- 2HS = 1/4" to 3/8 " Hose Barb
- 2Q = 1/4" Male Quick Coupling for Metal Latch
- 3H = 3/8" Hose Barb
- 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