

Polycap SPF

Whatman™ disposable filter

Instructions for Use

Introduction

Important

Read these instructions carefully before using the products.

Intended use

The products are intended for research use only, and shall not be used in any clinical or *in vitro* procedures for diagnostic purposes.

Background

Description

Polycap SPF is a disposable filter optimized for prefiltration applications. The filter media consists of three layers:

- Glass microfiber (GMF)
- Ultrafine GMF (UGMF)
- 1.0 µm polyethersulfone (PES)

This structure provides a means of serial filtration, and is thus suitable for high-particulate and hard-to-filter solutions, such as serum and protein solutions.

Polycap SPF is a suitable prefilter for use with products such as Polydisc AS to optimize final filtration and maximize the life of the final filter.

Polycap SPF is provided non-sterile. This filter is intended for single use. Reuse is not recommended.

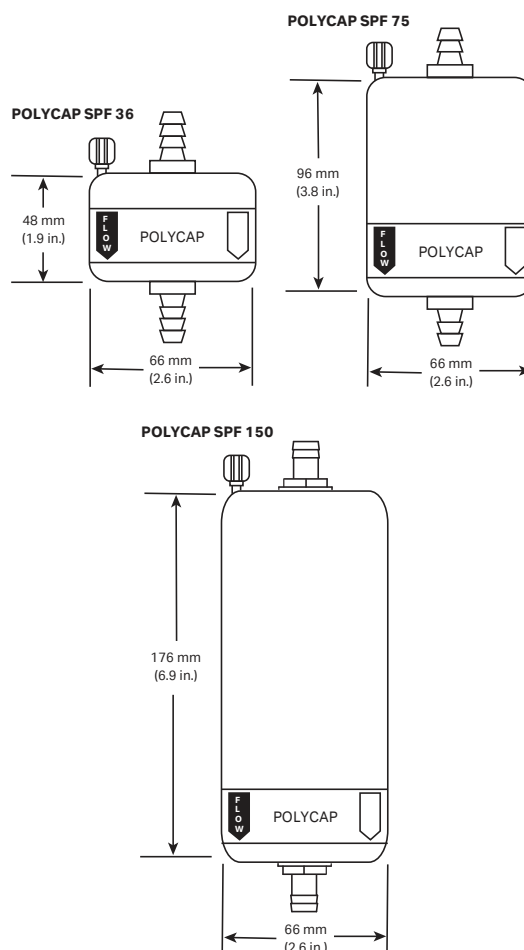
Typical applications

Polycap SPF is intended to be used for prefiltration of aqueous solutions to prevent clogging of the final filter. This filter is suitable for prefiltration of the following solutions:

- Serum prior to adding growth medium
- Tissue culture with and without serum
- Filterable growth medium
- Salt and buffer solutions
- Reagents
- Cleaning and rinsing solutions
- Primary clarification of cell culture and fermentation broth

Technical information

Illustration of Polycap SPF

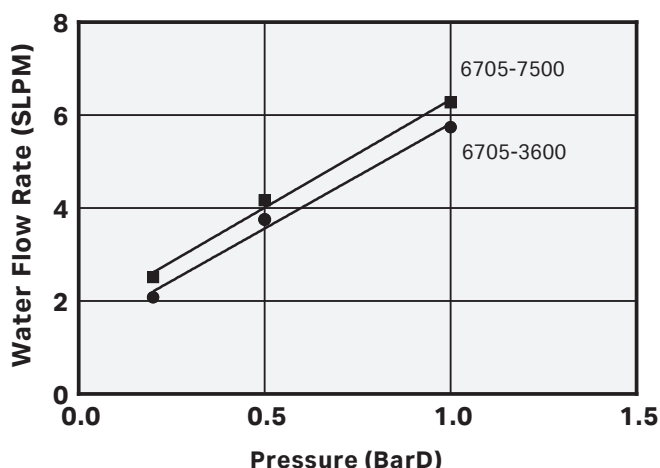


Technical data

Housing and support:	Polypropylene	
Filter media:	GMF, UGMF, PES	
Pore size:	1.0 µm	
Effective filtration area:	Specification	Product code
	220 cm ²	6705-3600
	450 cm ²	6705-7200
	920 cm ²	2820

Inlet/outlet connections:	Specification	Product code
	SB	6705-3600, 6705-7200
	HB	2820
	SB: 6 to 10 mm (¼ to ⅜ in.) stepped barb HB: 12 mm (½ in.) hose barb	
Dimensions (W×L):	Specification	Product code
	66 × 48 mm (2.6 × 1.9 in.)	6705-3600
	66 × 96 mm (2.6 × 3.8 in.)	6705-7200
	66 × 176 mm (2.6 × 6.9 in.)	2820
Sealing method:	Heat-fused	
Autoclavable:	121°C (250°F) for 20 minutes at 0.1 MPa (1.0 bar, 15 psi).	
Maximum operating pressure:	0.41 MPa (4.1 bar, 60 psi)	
Operating temperature:	Ambient	
Flow direction:	Inlet to outlet	
Biosafety:	Materials pass USP Class VI	

Water flow rate



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Operating Instructions

Safety

When considering the specific factors of your application, refer to Technical data for correct use. Make sure not to exceed the Maximum operating pressure and follow temperature or chemical compatibility recommendations.



CAUTION

If the Maximum operating pressure is exceeded, bursting of the device can occur resulting in loss of sample or personal injury.

Filtering solution

Step	Action
1	Press the tubing over the inlet and secure with a band clamp. Repeat for the outlet if using for an in-line application.
2	Fill the filter slowly and at a low pressure, allowing air to escape through the loosened vent valve until the device is filled with fluid.
3	Tighten the vent valve.
4	Ramp the pressure slowly until the desired flow rate is achieved, taking care not to exceed the maximum operating pressure of the device.
5	When filtration is complete, make sure to release all pressure from the test stand before loosening band clamps and removing tubing from the filter.

Ordering information

Product Code	Product Name	Qty./Pk.
6705-3600	Polycap SPF 36	1
6705-7500	Polycap SPF 75	1
2820	Polycap SPF 150	5

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