

User Guide

Millex®-FG/FH/FA Vent Filter and Vacuum Line Protector

- 50 mm
- Non-sterile
- Autoclavable

SLFG05000	SLFG75000	SLFH05010	SLFA05010
SLFG05010	SLFG75010	SLFH05000	SLFA05000
SLFG55010	SLFG85000		
SLFG65000	SLFG85010		
SLFG65010			

Introduction

The Millex®-FG/FH/FA Vent Filter and Vacuum Line Protector is a non-sterile, non-pyrogenic filter device. It consists of a 50 mm diameter unlaminated hydrophobic PTFE membrane sealed in a bi-directional polypropylene housing. The device is designed for in-line filtration of air or gases, venting air from pressurized closed containers, filtration of non-aqueous liquids such as HPLC solvents and as a moisture barrier between a vacuum source and an evacuated container. The filter device can be autoclaved up to 10 times.

Directions for Use

With Syringes

Fill syringe with liquid, and insert tip firmly into one of the filter device's connectors. Twist slightly to assure a tight connection. With device positioned in upward direction, slowly expel air from device. When liquid begins to exit, filter into receiver, taking care not to use a pressure exceeding 30 psid (2.1 bar).

With Hose Connections

Choose a silicone rubber or latex tubing with 4–9.5 mm (3/16–3/8 in.) inner diameter (ID). Fit snugly over connector. It is advisable to secure tubing to the filter devices' connectors using hose clamps.

Autoclaving

If the device requires sterilization, it can be autoclaved. Remove the two connector plug caps, wrap and seal in kraft paper, or other suitable autoclave paper. Autoclave at 121 °C for 20 minutes using slow exhaust cycle.

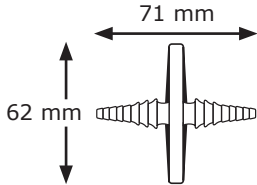
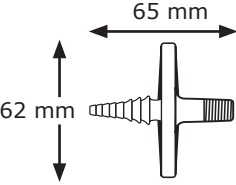
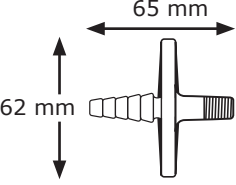
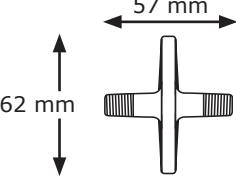
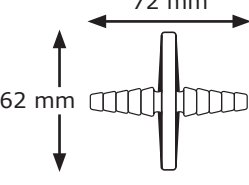
Warnings

- Do not apply inlet pressures exceeding 60 psi (4.1 bar).
- If device is used for filtering solvents or other non-aqueous solutions, check compatibility with device prior to filtration.
- Discard appropriately after use. Follow precautions for disposal of items contaminated with potentially infectious or hazardous biological material according to all applicable international, federal, state, and local regulations.

Specifications

Materials

Membrane	Hydrophobic Fluoropore™ polytetrafluoroethylene (PTFE)
Housing	Polypropylene
Filter Pore Size	Type FG: 0.2 µm
	Type FH: 0.45 µm
	Type FA: 1.0 µm
Filtration Area	19.6 cm ² (3 in ²)
Temperature Limit	130 °C (266 °F)
Maximum Inlet Pressure at 25 °C	60 psi (4.1 bar)
Maximum Differential Pressure 25 °C	30 psi (2.1 bar)
Air Flow Rate	Type FG: ≥ 15 L/min at 5 psid (0.3 bar)
	Type FH: ≥ 20 L/min at 5 psid (0.3 bar)
	Type FA: ≥ 30 L/min at 5 psid (0.3 bar)

Code	Dimensions	Connections
Code 0		Stepped hose 1/2 in. – 1/4 in. (latex) Female Luer slip at both ends
Code 5		Stepped hose 1/2 in. – 1/4 in. (latex) and 1/8 in. male NPT
Code 6		Stepped hose 1/2 in. – 1/4 in. (silicone) and 1/8 in. male NPT
Code 7		1/8 in. male NPT at both ends
Code 8		Stepped hose 1/2 in. – 1/4 in. (silicone) Female Luer slip at both ends

Product Ordering

Purchase products online at [SigmaAldrich.com](https://www.sigmaaldrich.com).

Catalogue Number			
Code	Pore Size	Qty (10/pk)	Qty (100/pk)
Code 0	0.2 µm	SLFG05010	SLFG05000
	0.45 µm	SLFH05010	SLFH05000
	1.0 µm	SLFA05010	SLFA05000
Code 5	0.2 µm	SLFG55010	—
Code 6	0.2 µm	SLFG65010	SLFG65000
Code 7	0.2 µm	SLFG75010	SLFG75000
Code 8	0.2 µm	SLFG85010	SLFG85000

Notice of Use Limitations for Product Contained in this Package

This product can be used only in Industrial and/or Laboratory applications.

Definitions

Industrial Use: This product may be used in industrial manufacturing environments. Industrial manufacturing environments are defined as those other than the manufacturing, processing, or packaging of food, drug, pharmaceutical, cosmetic, or medical devices.

Laboratory Use: This product may be used for research and analytical purposes only, provided that USP Class VI testing is sufficient and that biocompatibility tests for products such as those described in ISO® 10993-1 are not required for such purposes.

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