



47 mm Pressure Filtration Funnel, Stainless Steel



- Stainless steel construction offers excellent chemical resistance.
- Convenient hand-tightening makes filter changing easy.
- Best choice for rapid batch filtration of bacteriological or cell culture media, food, liquids, viscous oils, hydraulic oils, or lubricants.

Ordering Information

Prod. No.	Description	Packaging
4280	47 mm Pressure filtration funnel, stainless steel	1/pkg

Specifications

Materials of Construction

Funnel Barrel, Support Screen & Adapter Tube: Type 304 Stainless Steel
 Cap and Base: Type 303 Stainless Steel
 Hose Barb: Type 316L Stainless Steel
 Gasket: PTFE
 O-rings: Viton*

Effective Filtration Area

9.6 cm²

Dimensions

Housing Length: 16.4 cm (6.5 in.)
 Diameter: 5.8 cm (2.3 in.)

Connections

1/8 in. -27 FNPT pipe thread; includes hose barb adapter for 6.4 mm (1/4 in.) ID tubing; adapter tube accepts 10 mm (3/8 in.) ID tubing or standard stopper

Maximum Operating Temperature

Limited by membrane filter type, by O-ring 204 °C (399 °F), or by PTFE gasket 288 °C (550 °F)

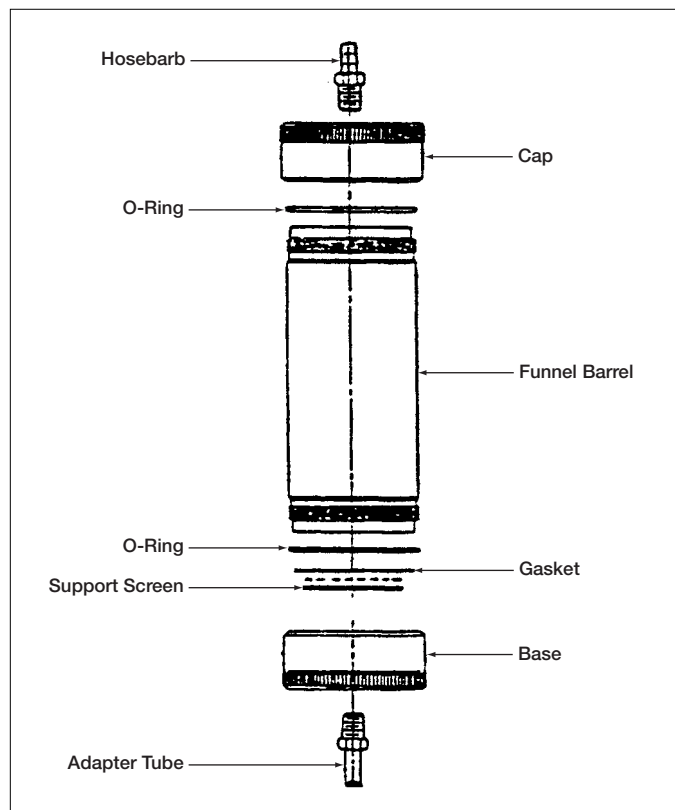
Maximum Operating Pressure

13.8 bar (1380 kPa, 200 psi) using compressed air or nitrogen

Sterilization

Provided non-sterile; autoclavable if desired at 121 - 123 °C (250 - 253 °F) at approximately 1.0 bar (100 kPa, 15 psi) for 15 - 20 minutes; dry heat sterilize at 170 °C (338 °F) for a minimum of 1 hour.

Guidelines



Do not use hydrochloric acid with any stainless steel apparatus.

If there is a possibility of system pressure rising above 13.8 bar (1380 kPa, 200 psi) as a result of malfunction or stoppage, a relief or bypass valve must be installed on the inlet side of the Pressure Filtration Funnel.

Instructions for Use

1. Attach the adapter tube tightly to the base.
2. The O-ring requires a perfectly smooth surface for proper sealing around the threads at each end of the funnel barrel. Place the O-ring by carefully rolling it across the threaded portion of the funnel barrel. Each Pressure Filtration Funnel is equipped with two spare O-rings and one spare gasket.
3. Insert the membrane filter in the base, on top of the support screen. A prefilter may be placed directly on top of the final filter.
4. Place the PTFE gasket on top of the filter(s). Attach the funnel barrel to the base. Firm hand tightening is all that is needed.
5. Support the apparatus over a suitable receiving vessel.
6. Pour liquid into the funnel barrel and tighten the cap. Only moderate pressure is necessary for an effective seal.
7. Apply pressure to the inlet hose barb with a compressed air or nitrogen tank.
8. When filtration is complete, be sure that all pressure is released before attempting to open the funnel barrel.
9. When removing the membrane filter from the base after filtration, use extreme care to prevent scratching the seal ring or the membrane filter. Non-serrated forceps are recommended.
10. The Pressure Filtration Funnel should be disassembled and thoroughly cleaned with water or a non-abrasive cleanser. Wet membrane filters should not be left in the unit.

Autoclaving/Dry-heat Instructions

Wrap the funnel barrel and base separately in autoclave paper. Autoclave under standard laboratory conditions not to exceed maximum operating temperature and pressure. The funnel may also be dry-heat sterilized at 170 °C (338 °F) for a minimum of one hour.



Replacement Parts

Prod. No.	Description	Packaging
4235	Support screen, Type 304 stainless steel	1/pkg
4287	Spare seal kit contains 5 gaskets, 10 O-rings and 1 stainless steel hose barb adapter for 6.4 mm (1/4 in.) ID tubing	1/pkg
4281	Type 303 stainless steel base	1/pkg
4282	Type 304 stainless steel center barrel	1/pkg
2110	Adapter tube, type 304 stainless steel	1/pkg

WARNING

Pall Life Sciences does not recommend use of this product with Volatile Liquids/High Purity Fuels as EXPLOSION may result from static discharge!
 Employment of the products in applications not specified, or failure to follow all instructions contained in this product information insert, may result in improper functioning of the product, personal injury, or damage to property or the product. See Statement of Warranty in our most recent catalog.

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