



## 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

Part Number	Description	Pkg
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 cm<sup>2</sup>

#### 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)

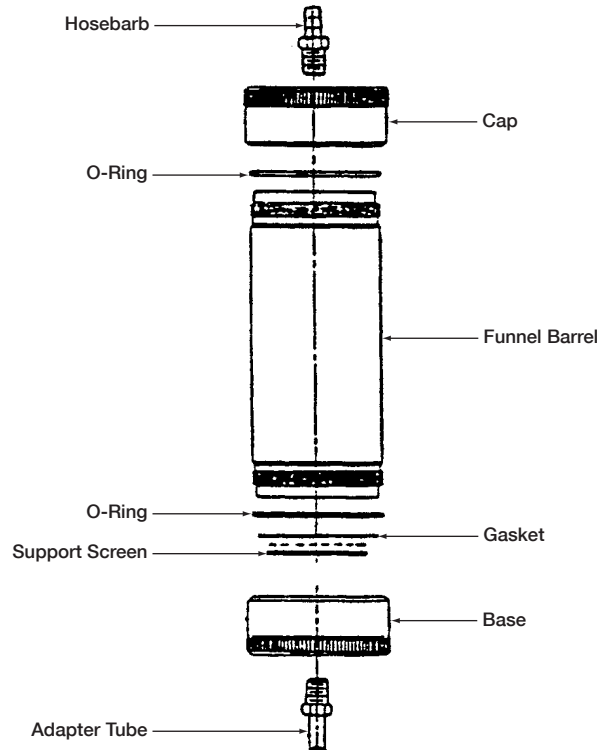
#### Maximum Operating Pressure

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

Part Number	Description	Pkg
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.

## ATTENTION

Pall Life Sciences déconseille l'utilisation de ce produit avec les liquides volatils/combustibles extra purs à cause des risques d'EXPLOSION que peut provoquer une décharge d'électricité statique !

L'utilisation de nos produits dans des applications pour lesquelles ils ne sont pas spécifiés ou le non-respect du mode d'emploi qui figure sur ce document, peut entraîner un dysfonctionnement du produit, endommager le produit ou d'autres biens matériels ou représenter un risque pour l'utilisateur. Se référer à la clause de garantie de notre catalogue le plus récent.

## ACHTUNG

Pall Life Sciences rät von der Verwendung dieses Produktes mit flüchtigen Lösungsmitteln und hochreinen Kraftstoffen ab. Durch statische Entladung besteht EXPLOSIONSGEFAHR!

Der Einsatz dieses Produktes in Anwendungen für die es nicht spezifiziert ist, oder das Nichtbeachten einiger, in dieser Bedienungsanleitung gegebenen Hinweise kann zu einem schlechteren Ergebnis, oder Zerstörung des Produktes oder anderer Dinge oder gar zu Verletzungen führen. Beachten Sie auch unsere Garantiebedingungen im aktuellen Katalog.

## ADVERTENCIA

¡ Pall Life Sciences no recomienda el uso de este producto con líquidos volátiles/combustibles de gran pureza debido a que podría haber una EXPLOSION causada por la descarga de electricidad estática!

El uso de este producto en aplicaciones no especificadas o el no considerar las instrucciones indicadas en la hoja de información del producto puede ocasionar un mal funcionamiento del producto, daños en las instalaciones o en el producto y riesgo para el personal del laboratorio. Consulte el apartado de Garantía en nuestro último catálogo.

## ATTENZIONE

Pall Life Sciences sconsiglia l'utilizzo di questo prodotto con liquidi volatili/combustibili extra puri per un possibile rischio di ESPLOSIONE che potrebbe essere causato da una scarica di elettrostatica!

L'impiego dei prodotti in applicazioni non specificate, o il mancato rispetto di tutte le istruzioni contenute nel presente bollettino tecnico, potrebbero portare ad un utilizzo improprio del prodotto, ferire gli operatori, o danneggiare le caratteristiche del prodotto stesso. Consultare la dichiarazione di garanzia pubblicata nel nostro più recente catalogo.

## 警告

ポール (Pall Life Sciences) 社は、静電気による爆発の恐れがありますので、揮発性の液体または高純度の燃料での本製品の使用はご遠慮ください。

当製品情報に記載されていないアプリケーションにおいて製品を使用した場合、あるいは当製品情報に記載されている使用方法に従わない場合は、製品の機能上の不具合、人体への危害、あるいはお客様の財産や製品への損害をまねく恐れがあります。必ず、最新のカタログに記載してある保証約款をご覧ください。

## International Offices

Pall Corporation has offices and plants throughout the world in: Argentina, Australia, Austria, Belgium, Brazil, Canada, China, France, Germany, India, Indonesia, Ireland, Italy, Japan, Korea, Malaysia, New Zealand, Norway, Philippines, Poland, Russia, Singapore, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, United Kingdom, and Vietnam. Distributors in all major industrial areas of the world. To locate the Pall office or distributor nearest you, visit [www.pall.com/contact](http://www.pall.com/contact).

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.