

SolVac® Filter Holder

Magnetic filter holder simplifies clean-up and degassing of mobile phase solvents and other solutions



- ▶ Versatile design fits most HPLC bottles, flasks, and containers, and eliminates the added steps of washing flasks and transferring mobile phase solvent from flask to reservoir.
- ▶ Draws directly from HPLC solvent bottle. Less likely to spill aggressive solvents than glass funnels or disposable cups.
- ▶ Durable plastic construction is less likely to break than glass funnels, assemblies, or adapters.
- ▶ Patented magnetic seal is reliable and leak proof. Eliminates the possibility of membrane shifting or tearing which can occur with aluminum clamps or threaded holders.
- ▶ Reusable, chemically resistant polypropylene construction is resistant to common HPLC mobile phase solvents such as methanol, acetonitrile, and tetrahydrofuran.

Applications

- ▶ Remove contaminating particulate from mobile phase or other solutions.
- ▶ De-gas mobile phase solvents and solutions.
- ▶ Eliminate pour-and-wait filtration.
- ▶ Remove microbial growth every 24 hours from aqueous buffer mobile phases.

Specifications

Materials of Construction

Upper Housing, Housing Base: Polypropylene
Feedline Tubing: Ultra chemical-resistant Tygon*, 4.8 mm (3/16 in.) ID
Thumb Clamp: Celcon*
Feedline Sinker: PTFE
Vacuum Port Adapter, Membrane Seal Gasket, and Seal Gasket: Polyethylene

Effective Filtration Area

10.2 cm²

Filter Size

Accepts 47 mm filter

Inlet/Outlet Connections

Tapered inlet accepts 3.2 - 6.4 mm (1/8 - 1/4 in.) ID tubing; outlet seals to bottles with openings 17.8 mm (0.7 in.) ID to 48.3 mm (1.9 in.) OD

Vacuum Port Adapter

4.8 - 7.9 mm (3/16 - 5/16 in.) tapered hose barb

Maximum Vacuum

63.5 cm Hg (25 in. Hg)

Operating Temperature

Ambient; not to exceed 38 °C (100 °F); not autoclavable

Chemical Compatibility

For detailed information about chemical compatibility by membrane type, see the Chemical Compatibility Chart on pages 286 - 287.

Ordering Information

SolVac Filter Holder

Part Number	Description	Pkg
4020	SolVac holder with 61 cm (2 ft.) feedline tubing, thumb clamp, sinker, vacuum port adapter, 2 membrane seal gaskets, and 2 seal gaskets	1/pkg

Accessories and Replacement Parts

Part Number	Description	Pkg
4022	122 cm (4 ft.) replacement feedline tubing	1/pkg
4023	Replacement seal gaskets	10/pkg
4025	Membrane seal gasket kit	10/pkg
4026	Sinker replacement kit	2/pkg
4028	Clamp replacement kit	2/pkg

Related Products

GH Polypro (GHP) Membrane Disc Filters	178
Stainless Steel Forceps	230, 280
Vacushield™ Vent Device	165
Vacuum/Pressure Pumps	279

Instructions for Use



1. Place base on the receiving vessel. Place the membrane on the clean, dry filter support.



2. Attach inlet feedline tubing to the upper housing. Place upper housing onto housing base to securely seal the membrane.



3. Attach vacuum tubing from vacuum source to the vacuum port adapter on the housing base.



4. Place feedline tubing into solvent to be filtered.



5. Apply vacuum to pull liquid through the filter.

Always use a safety-coated receiving vessel that is less than 4 L and rated for vacuum applications. Failure to do so may result in implosion of the receiving vessel and potential injury to the user.

HPLC Mobile Phase Filtration Membranes

Membrane	Mobile Phase Application	Technical Information
TF (PTFE)	Recommended for use with all organic liquids	Page 180
GH Polypro (GHP, polypropylene)	Recommended for use with organic and aqueous liquids	Page 178
Nylaflor™ (nylon)	Not recommended for use with some acidic solutions	Page 179
PVDF	Not recommended for use with some basic solutions	Page 181