

Sterlitech in-line pressure filtration holders are designed for use in pressure applications, either in batch or continuous filtration processes.

High pressure stainless steel in-line pressure filtration holders are compatible with many aggressive liquids and gases. These are ideal for use as gas line holders to preserve ultra-clean air and other gases.



SPECIFICATIONS

Model	LS 47 HP
Part Number	304900
Materials	
Body, support screens, locking ring	Type 304 stainless steel
O-rings	Viton
Connections	
Inlet & Outlet	1/4" NPTF
Pressure	
Differential	100 kg/cm ² (1400 psi)
Dead Volume	
Upstream	3 mL
Downstream	6.4 mL
Membrane filter size	47 mm
Prefilter size (if used)	37 mm
Filtration area	11.2 cm ²
Weight	1.9 kg (4.1 lb)
Filtration area	88 x 46 mm

ASSEMBLY AND OPERATION

- Holding the outlet plate (J), and using Tweezers (Pad) Miracle Tip Ends or other blunt tipped forceps, carefully:
 - Place the sintered steel support (H) in the outlet plate (J).
 - Center a membrane filter (MF) on top of the support.
 - Center a prefilter (PF, optional) on top of the membrane.
 - Place the outer O-ring (G) around the membrane or prefilter disc.
- Holding the inlet plate (E) in an inverted position.
 - Be sure the inner O-ring (F) is seated firmly in the groove in the raised inner section of the inlet plate.
 - For optional back pressure support screen*: Align tabs on support with notches in inlet plate. Rotate support about 90° so that tabs are held in channel. (If support will not rotate, flip support over).
- Carefully place the inlet plate over the outlet plate, aligning the screw holes. Place cap screws (C) with washers (D) in holes, and gently hand tighten.
- Using hex key supplied, tighten screws by quarter turns, working around the holder until tight.
- Attach adapters (A) to the inlet (E) and outlet (J) plates of the holder. Be sure adapter O-rings (B) are in place.

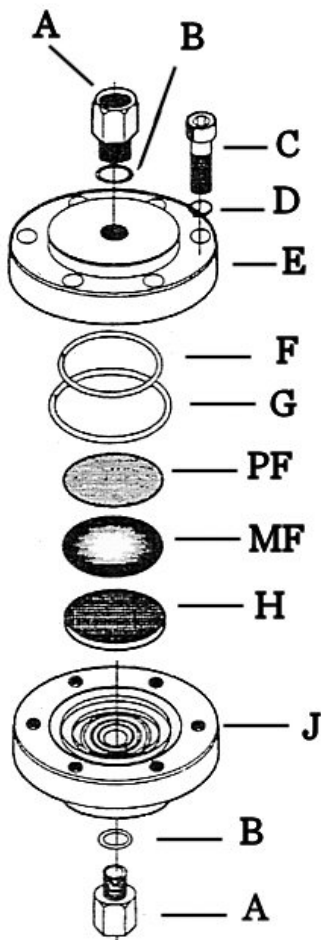
*Used when filter liquids under high pressure.

Note: When filtering liquids under high pressure, a back pressure support screen must be used to deflect flow and prevent membrane rupture beneath the inlet opening.

CLEANING AND MAINTENANCE

- Disassemble the entire unit and inspect components for nicks or rough edges. Check O-rings and gaskets for cracking and loss of elasticity.
- Clean all components with a standard, low-alkaline, non-abrasive laboratory detergent. A stiff-bristled brush should be used to clean threaded inlets and outlets.
- Rinse with hot tap water followed by a final rinse with distilled or deionized water.

ORDERING GUIDE



	Part	LS 47 HP
A	Inlet/outlet adapter	304904
B	Adapter O-ring	304905
C	Hex cap screw, M-8	304915
D	Cap screw washer	304916
E	Inlet plate	304901
F	Inner O-ring	304906
G	Outer O-ring	304910
H	Sintered steel support	304903
J	Outlet plate	304902
	Back pressure support screen (optional)	304920