STERLITECH Corporation

Stainless Steel Syringe Filter Holders KS 13 & KS 25

Sterlitech Stainless Steel Syringe Filter Holders are suitable for cleaning small volumes of liquid, clarifying turbid solutions, and purifying viral solutions. These filter holders are made with 304 stainless steel, making them completely autoclavable. They feature luer fittings and include a wrench set for easy tightening.

SPECIFICATIONS

Model:	KS13	KS25
Part Number:	301000	301200
Materials: Body and support screens Gasket O-ring	 Type 304 stainless steel PTFE (Teflon) PTFE (Teflon)	 Type 304 stainless steel PTFE (Teflon) PTFE (Teflon)
Connections: Inlet Outlet	 Female Luer-Lok Male Luer slip	 Female Luer-Lok Male Luer slip
Pressure: Inlet Differential	 7 kg/cm^2 (100 psi) 3 kg/cm^2 (50 psi)	 7 kg/cm^2 (100 psi) 3 kg/cm^2 (50 psi)

Model:	KS13	KS25
Membrane filter size (mm)	13	25
Prefilter size (mm) (if used with membrane)	10	22
Filtration area (cm^2)	0.9	3.8

ASSEMBLY AND OPERATION

1. Holding the outlet half (E) of the holder, and using Tweezers (Pad) Miracle Tip Ends or blunt forceps, carefully:
    a. Place the Teflon gasket (D) in the holder.
    b. Place the stainless steel support screen (C) on top of the gasket.
    c. Place a membrane filter (MF) on top of the screen.
    d. Center a prefilter (PF, if used) on top of the membrane.
    e. Center the Teflon O-ring (B) on top of the membrane or prefilter.
2. Screw the inlet body (A, male threads) into the outlet body of the holder until finger-tight.
3. Complete tightening with wrenches (F).
4. To operate: Fill a syringe with liquid to be filtered.
    a. Hold syringe upright (outlet up) and press on plunger to displace air.
    b. Keeping syringe upright, attach filter to holder.
    c. Slowly fill filter holder with fluid to avoid trapping air and causing an airlock.

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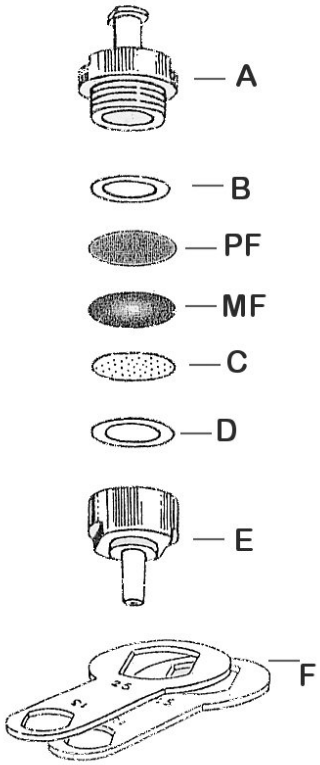
CLEANING AND MAINTENANCE

- Disassemble the entire unit, using supplied wrenches if needed.
- Inspect components for nicks or rough edges.
- Clean all components with a standard, low-alkaline, non-abrasive laboratory detergent. Clean threaded connections with a stiff-bristled brush.
- Rinse with hot tap water followed by a final rinse with distilled or deionized water.
- Allow to air dry, do not store wet.
- To sterilize, assemble a completely dry filter holder with membrane and/or prefilter in place.
    - Tighten holder then back off one-quarter turn.
    - Wrap the entire unit in Kraft paper or an equivalent steam permeable paper.
    - Autoclave the holder at 121°C (250°F) for 30 minutes (SLOW exhaust).
    - Retighten after the holder has cooled to room temperature.

ORDERING GUIDE



		KS13	KS25
A	Inlet, male	301001	301201
B	O-ring, PTFE	301004	301204
C	Screen, stainless	301003	301203
D	Gasket, PTFE	301002	301202
E	Outlet, female	301005	301205
F	Universal wrenches (2/pk)	301006	

MEMBRANE INTERGRITY TEST

- To check for leaks and tears in the membrane:
- Remove the syringe from the filter holder.
- Draw air into the syringe and reattach the syringe to the holder.
- Try to force air through the membrane (wet).
    - If resistance is felt after all the fluid on the upstream side of the membrane is displaced, the membrane should be intact and holder properly sealed.
    - If NO resistance is felt, sterile filtration cannot be assured. Disassemble holder and check the membrane for visible tears, be sure all component parts were used when assembling the filter holder.