

All-Glass Filtration Assemblies

All-glass filter holder design restricts contact with reactive surfaces such as steel or rubber to minimize contamination of sample or filtrate.

The standard 25 or 47mm filtration funnels mount on filtration flask using a ground glass joint. The support base outlet drip tube is positioned below the side arm connection to prevent sample aspiration into the vacuum line. All the wetted surfaces are borosilicate glass, with the exception of stainless steel and PTFE support options.

Support Type	Holder Diameters	
	25 mm Holder	47 mm Holder
Glass frit	311220	311420
Stainless steel	311320	311520
PTFE	-	311620



SPECIFICATIONS

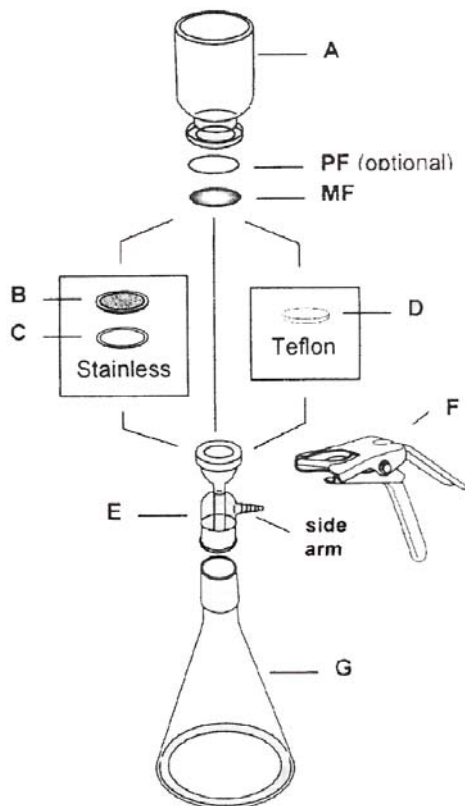
	Holder Diameters	
	25 mm Holder	47 mm Holder
Funnels, base unit, and flask	Borosilicate glass	
Support	Borosilicate glass frit, stainless steel, or PTFE	
Ground glass joint	14/20	40/35
Side arm connection	6 mm (3/8 inch)	
Funnel	15 ml	300 ml
Receiver flask	125 ml	1000 ml
Membrane filter size	25 mm Holder	47 mm Holder
Prefilter size (if used)	16 mm	35 mm
Filtration area	2.1 cm ²	9.6 cm ²

CLEANING AND MAINTENANCE

- All components may be cleaned with a standard, low-alkaline, non-abrasive detergent such as Alconox or Liquinox.
- Routinely inspect surfaces for chips and scratches.
- Certain oils may remove markings from glassware. Avoid getting oil on the outside of the filter holder.
- Fritted glass bases should be examined periodically for clogging
- Frits can be cleaned by backflushing with water and gentle surface scrubbing surface. If the frit remains clogged, soak the base without stopper overnight in a cleaner such as Nochromix, and use vacuum filtration to rinse the frit thoroughly with distilled water.
- To sterilize, autoclave for 20 minutes at 121°C (250° F), fast exhaust.
- Individual components may be UV sterilized but not the entire assembly

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ORDERING GUIDE



	Holder Diameters		
	25 mm Holder	47 mm Holder	
A	Funnel (15 ml/300 ml)	311201	311401
B	Stainless steel support screen	311304	311504
C	PTFE gasket (for use with SS screen)	311305	311505
D	PTFE support screen	-	311604
E	Glass frit support base	311222	311422
F	Clamp	311003	311403
G	Receiver flask (125 ml/1000 ml)	311225	311425

	Holder Diameters		
	25 mm Holder	47 mm Holder	
A	Funnel, 100 ml	-	311408
A	Funnel, 150 ml	311208	-
A	Funnel, 300 ml	311209	-
A	Funnel, 500 ml	-	311409
A	Funnel, 1 L graduated	-	311410
G	Receiver flask, 2 L	-	311426
-	Filterceps	800000	

ASSEMBLY AND OPERATION

- Slide support base (E) onto receiver flask (G). Prevent freezing of the glass joint by using a small amount of Teflon tape or a Teflon sleeve.
- Attach tubing to the side arm and set up an additional trap or filter between the apparatus and the vacuum pump to prevent sample from being aspirated into the pump.
- For stainless steel support: Place Teflon gasket (C) in support base, then place the stainless steel support screen (B) on top.
 - For Teflon support: Place the Teflon support screen (D) into the support base.
- Using filterceps or other blunt-tipped forceps, carefully:
 - Place a membrane filter (MF) on top of the screen.
 - Center a prefilter (PF, optional) on top of the membrane.
 - Place the funnel (A) onto the support base (E) and secure with clamp (F).
 - Fill funnel with liquid and draw vacuum (21 in Hg) to begin filtration.