

# Field Filtration Devices

## Geotech Polypropylene, Polycarbonate & Aluminum Filter Holders

The Geotech In-line Filter Holders are specifically designed for on-site, rapid filtration of surface or groundwater samples through larger diameter flatstock filter membranes. They are available in Polypropylene, Polycarbonate, and Aluminum.

### Polypropylene In-Line Filter Holder

Filter membrane size	47mm diameter (only)
Filter area	13.5cm <sup>2</sup>
Pre-filter size	42.5mm diameter
Filter holder plates	Polypropylene
Support screen material	Polypropylene
O-ring	Silicone
Max pos. pressure at 25°C	5.0 Kg/cm <sup>2</sup> (71psi) differential
Max pos. pressure at 80°C	3.0 Kg/cm <sup>2</sup> (42psi) differential
Max neg. pressure at 25°C	5.0 Kg/cm <sup>2</sup> (71psi) differential
Max neg. pressure at 80°C	3.0 Kg/cm <sup>2</sup> (42psi) differential
Vacuum	1 atmosphere maximum
Maximum temperature	128°C
Max. liquid temperature	80°C
Inlet/outlet fittings	Combination 1/4" NPTM, female luer slip
Diameter	2.5" (6.35cm)
Height	2.0" (5.08cm)
Autoclaving	20 minutes, 121°C, 15psi
Approx. shipping wt.	99g (3.5oz.)



### Polypropylene In-line

- Compatible with a wide range of chemicals
- Exterior locking ring design allows the unit to be assembled quickly

### Applications

- Ultraclean and sterilize liquids
- Aseptic sampling of liquids or gases

### Polycarbonate (142 mm)

- Able to use in wide temperature ranges with excellent chemical compatibility
- Adjustable pressure relief valve
- Lower cost, lighter weight alternative to acrylic

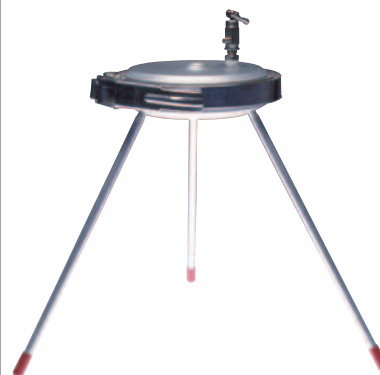


### Polycarbonate In-Line Filter Holder

Filter membrane size	142mm diameter (only)
Filter area	4.809" (122.17mm) diameter
Clamping device	6 swing-a-way bolts
Total height with legs	13.5"
Filter holder alone height	2.0" (50.8mm)
Nut and bolt height	3.14" (79.0mm) when engaged
Filter holder plates	Polycarbonate
Bolts	Nylon or stainless steel
Nuts	Polycarbonate or stainless steel
Legs	Nylon with non skid feet
Filter support screen	Polyester
Sealing ring	Vinyl
Disbursement disc	Polycarbonate
Pressure relief valve	Nylon w/ external stainless steel pegs
Total diameter	7.95" (201.98mm)
Inlet/outlet fittings	3/8" NPT by 3/8" hose barb
Approx. shipping wt.	3.1lbs. (nylon bolts) 4.1lbs. (stainless steel bolts)

### Aluminum

Filter membrane size	142mm diameter (only)
Pre-filter size	12.5cm <sup>2</sup>
Filter area	113cm <sup>2</sup>
Filter holder plates	Aluminum
O-ring	Teflon® coated silicone
Support	3 legs
Width	6"
Total height with legs	14"
Height of filter holder alone	1.8" (45.7cm)
Inlet/outlet fittings	3/8" NPTF - requires male adapter
Legs	Anodized aluminum with red rubber non-skid feet
Clamping mechanism	Quick release band clamp
Clamp	300 series stainless steel with plastic knob
Support screen	Stainless steel
Pressure relief valve	Stainless steel
Relief valve pressure rating	45psi (preset)



### Aluminum

- Designed for use by U.S.G.S. National Water Quality Assessment Program
- Low cost alternative to stainless steel
- Ideal for filtration of organics
- Allows for high pressure filtration, preset to 45 psi
- Single quick release band clamp

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