

# Field Filtration Devices

## ***Geotech Polypropylene, Polycarbonate & Aluminum Filter Holders***

Geotech In-line Filter Holders are designed for on-site, rapid filtration of surface or groundwater samples through larger diameter flatstock filter membranes.

### FEATURES

#### **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 In-line (142 mm)**

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

#### **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 (3 bar)
- Single quick release band clamp



**Geotech Polypropylene In-line Filter Holder**



**Geotech Polycarbonate In-line Filter Holder**



**Geotech Aluminum Filter Holder**

**CALL GEOTECH TODAY (800) 833-7958**

**Geotech Environmental Equipment, Inc.**

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# Field Filtration Devices



## Geotech Polypropylene, Polycarbonate & Aluminum Filter Holders

### SPECIFICATIONS

#### Aluminum Filter Holder

<b>Filter Membrane Size</b>	142mm (5.59") diameter (only)
<b>Pre-filter Size</b>	12.5cm <sup>2</sup> (1.9 in. <sup>2</sup> )
<b>Filter Area</b>	115cm <sup>2</sup> (17.8 in. <sup>2</sup> )
<b>Filter Holder Plates</b>	Aluminum
<b>O-Ring</b>	Teflon <sup>®</sup> coated silicone
<b>Support</b>	3 legs
<b>Width</b>	6" (15cm)
<b>Total Height with Legs</b>	14" (35.5cm)
<b>Height of Filter Holder Alone</b>	1.8" (4.6cm)
<b>Inlet/Outlet Fittings</b>	3/8" NPTF (requires male adapter)
<b>Legs</b>	Anodized aluminum with red rubber non-skid feet
<b>Clamping Mechanism</b>	Quick release band clamp
<b>Clamp</b>	300 series stainless steel with plastic knob
<b>Support Screen</b>	Stainless steel
<b>Pressure Relief Valve</b>	Stainless steel
<b>Relief Valve Pressure Rating</b>	45 psi (3 bar) preset
<b>Approximate Shipping Weight</b>	6.15 lbs. (2.79 kg)

#### Polypropylene In-Line Filter Holder

<b>Filter Membrane Size</b>	47mm diameter (only)
<b>Filter Area</b>	13.5cm <sup>2</sup>
<b>Pre-filter Size</b>	42.5mm diameter
<b>Filter Holder Plates</b>	Polypropylene
<b>Support Screen Material</b>	Polypropylene
<b>O-Ring</b>	Silicone
<b>Max. Pos. Pressure at 25°C (77°F)</b>	5.0 Kg/cm <sup>2</sup> (71 psi) differential
<b>Max. Pos. Pressure at 80°C (176°F)</b>	3.0 Kg/cm <sup>2</sup> (42 psi) differential
<b>Max. Neg. Pressure at 25°C (77°F)</b>	5.0 Kg/cm <sup>2</sup> (71 psi) differential
<b>Max. Neg. Pressure at 80°C (176°F)</b>	3.0 Kg/cm <sup>2</sup> (42 psi) differential
<b>Vacuum</b>	1 atmosphere maximum
<b>Maximum Temperature</b>	128°C (262°F)
<b>Max. Liquid Temperature</b>	80°C (176°F)
<b>Inlet/Outlet Fittings</b>	Combination 1/4" NPTM, female lure slip
<b>Diameter</b>	2.5" (6.35cm)
<b>Height</b>	2.0" (5.08cm)
<b>Autoclaving</b>	20 minutes, 121°C (250°F), 15 psi (1 bar)
<b>Approximate Shipping Weight</b>	99g (3.5 oz.)

#### Polycarbonate In-Line Filter Holder

<b>Filter Membrane Size</b>	142mm (5.59") diameter (only)
<b>Filter Area</b>	4.8 in. <sup>2</sup> (30.1cm <sup>2</sup> ) diameter
<b>Clamping Device</b>	6 swing-away bolts
<b>Total Height with Legs</b>	13.5" (34cm)
<b>Filter Holder Alone Height</b>	2.0" (51cm)
<b>Nut and Bolt Height</b>	3.14" (79.0mm) when engaged
<b>Filter Holder Plates</b>	Polycarbonate
<b>Bolts</b>	Nylon or stainless steel
<b>Nuts</b>	Polycarbonate or stainless steel
<b>Legs</b>	Nylon with non-skid feet
<b>Filter Support Screen</b>	Polyester
<b>Sealing Ring</b>	Vinyl
<b>Disbursement Disc</b>	Polycarbonate
<b>Pressure Relief Valve</b>	Nylon w/external stainless steel pegs
<b>Total Diameter</b>	7.95" (201.98mm)
<b>Inlet/Outlet Fittings</b>	3/8" NPT by 3/8" hose barb
<b>Approximate Shipping Weight</b>	Nylon bolts 3.1 lbs. (1.4 kg) Stainless steel bolts 4.1 lbs. (1.9 kg)

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