

Field Filtration Devices

Geotech In-line Filter Holders

The Geotech In-line Filter Holders are specifically designed for on-site, rapid filtration of surface or ground water samples through large diameter flatstock membranes. They are available in 316 stainless steel, aluminum, and Teflon®.

FEATURES

- Industry leader for trace metals analysis since 1978
- Compatible in-line with most pump systems
- Easy field decontamination
- Durable yet light weight, easily packs into remote sites
- High quality chemically resistant materials
- Economical & reliable for years of service
- Wide variety of filter holders to meet your needs

Stainless Steel (47mm, 90mm, and 142mm):

- Designed to minimize resistance and maximize flowrate
- Includes vent relief valve for improved performance
- Made of 316 SS - rated @ 100psi

Aluminum (142mm):

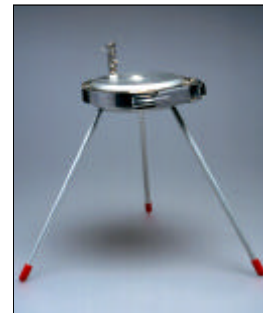
- Designed for use by U.S.G.S. National Water Quality Assessment program
- Low cost alternative to stainless steel
- Ideal for filtration of organics
- Allows for high pressure filtration, preset to 45psi
- Single quick release band clamp

Teflon® (47mm):

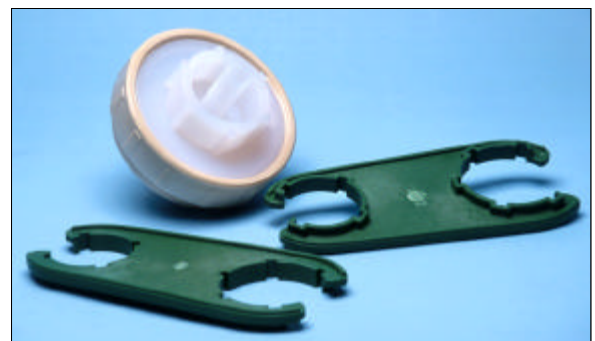
- Designed for filtering small volumes
- All wetted surfaces are Teflon® PFA to maximize chemical compatibility



Geotech Stainless Steel In-line Filter Holder



Geotech Aluminum In-line Filter Holder



Geotech Teflon® In-line Filter Holder with tools

OPERATION

In-line Filter Holders:

While able to be used in-line with any Geotech dedicated or portable pumping system, they are most often used with the **geopump™ Peristaltic Pump**. The sample can be directly pumped from any surface water source or monitoring well. The sample then enters the filter holder and flows into a collection container placed beneath the discharge fitting.

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Field Filtration Devices

Geotech In-line Filter Holders Specifications

| Teflon® | |
|--|------------------------|
| Filter membrane size | 47mm diameter (only) |
| Diameter | 67mm |
| Pre-filter size | 42.5mm diameter |
| Max. differential pressure | 3.0 Kg/cm ² |
| Max. operating temperature .. | 100°C |
| Autoclaving | 121°C, 15 minutes |
| Inlet/outlet fitting female luer lock 1/4" NPTM or 1/4" (6.35mm) diameter tubing | |
| Filter area | 12.5cm ² |
| Height | 70mm |
| Weight..... | 5.2oz. (120g) |

| Aluminum | |
|-----------------------------------|---|
| Filter membrane size | 142mm diameter (only) |
| Pre-filter size | 12.5cm ² |
| Filter area | 113cm ² |
| 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) |

Geotech also supplies Flatstock Filter Membranes and Prefilters.

| Stainless steel | |
|---|---|
| Filter holder plates..... | 316 stainless steel |
| Pressure..... | 7kg/cm ² (100psi) differential |
| 47 mm | |
| Filter membrane size..... | 47mm diameter (only) |
| Pre-filter size..... | 35mm |
| Filter area..... | 12.5cm ² |
| Upstream volume..... | 5ml |
| Downstream volume..... | 2ml |
| O-ring..... | viton & silicone |
| Vent valve O-ring..... | viton |
| Gasket..... | Teflon® |
| Back press. support scrn..... | Teflon® coated |
| Support screen..... | Teflon® coated |
| Internal fittings..... | 1/4" NPTF to 9.5mm nozzle ID |
| External inlet/outlet fittings...1/4" NPTF to 11mm OD hose barb | |
| 90 mm | |
| Filter membrane size | 90mm diameter (only) |
| Pre-filter size | 75mm |
| Filter area | 45cm ² |
| Support screen | PTFE coated photoetched stainless steel |
| O-ring | silicone |
| Gasket | PTFE Teflon® |
| Inlet fitting | 3/4" NPTF |
| Outlet fitting | 3/4" NPTM |
| Approx. shipping wt. | 3.9kg (8.5lbs.) |
| Autoclaving | 35 minutes, 121°C |
| 142 mm | |
| Filter membrane size | 142mm diameter (only) |
| Pre-filter size | 124 mm |
| Filter area | 113 cm ² |
| Support screen | PTFE Teflon® coated photoetched stainless steel |
| O-ring | silicone |
| Gasket | PTFE Teflon® stainless steel |
| Inlet fitting | 3/4" NPTF |
| Outlet fitting | 3/4" NPTM |
| Approx. shipping wt. | 6.3 kg (14.1 lbs) |
| Autoclaving | 45 minutes, 121°C |

CALL GEOTECH TODAY (800) 833-7958

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