

# Polycap GW

Whatman™ disposable filter

## Instructions for Use

### Introduction

#### Important

Read these instructions carefully before using the products.

#### Intended use

The products are intended for research use only, and shall not be used in any clinical or *in vitro* procedures for diagnostic purposes.

### Background

#### Description

Polycap GW is a disposable in-line filter that is suitable for filtering ground water samples. This product is encapsulated in a polypropylene housing and consists of a 0.45 µm polyethersulfone (PES) membrane.

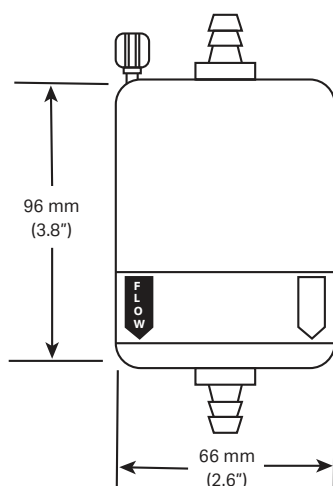
Polycap GW is intended for single use. Reuse of this product will result in cross contamination of sample and inaccurate results.

#### Typical applications

Polycap GW is suitable for filtering out suspended particulate from a water sample intended to be analyzed for dissolved metal contents.

### Technical information

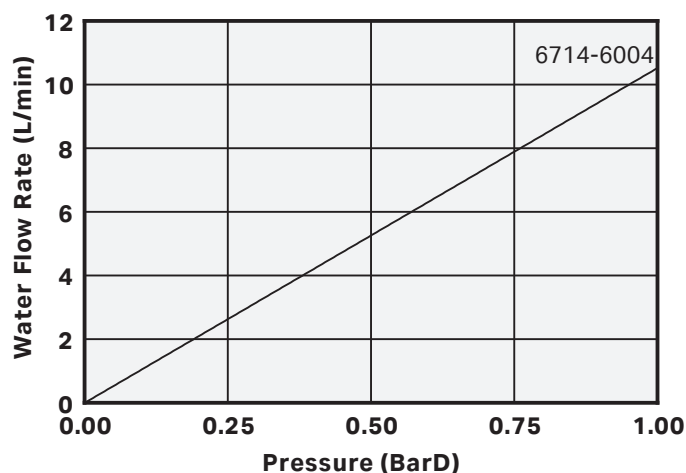
#### Illustration of Polycap GW



### Technical data

|                                           |                                                           |
|-------------------------------------------|-----------------------------------------------------------|
| <b>Housing and support:</b>               | Polypropylene                                             |
| <b>Filter media:</b>                      | PES                                                       |
| <b>Pore size:</b>                         | 0.45 µm                                                   |
| <b>Hold-up volume:</b>                    | 22 mL with air purge                                      |
| <b>Effective filtration area:</b>         | 920 cm <sup>2</sup>                                       |
| <b>Inlet/outlet connections:</b>          | 6 to 10 (¼ to ¾ in.) stepped barb                         |
| <b>Dimensions with connections (W×L):</b> | 66 × 137 mm (2.6 × 5.4 in.)                               |
| <b>Sealing method:</b>                    | Heat-fused                                                |
| <b>Autoclavable:</b>                      | 121°C (250°F) for 20 minutes at 0.1 MPa (1.0 bar, 15 psi) |
| <b>Maximum operating pressure:</b>        | 0.41 MPa (4.1 bar, 60 psi)                                |
| <b>Operating temperature:</b>             | Ambient                                                   |
| <b>Flow direction:</b>                    | Inlet to outlet                                           |

### Typical water flow rate



# Operating Instructions

## Safety

When considering the specific factors of your application, see *Technical data* for correct use. Make sure not to exceed the Maximum operating pressure and follow temperature or chemical compatibility recommendations.



**CAUTION**

If the Maximum operating pressure is exceeded, bursting of the device can occur resulting in loss of sample or personal injury.

## Filtering ground water

| Step | Action                                                                                                                                               |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Press the tubing over the inlet and secure with a band clamp. Repeat for the outlet if using for an in-line application.                             |
| 2    | Fill the filter slowly and at a low pressure, allowing air to escape through the loosened vent valve until the filter is filled with fluid.          |
| 3    | Tighten the vent valve.                                                                                                                              |
| 4    | Ramp the pressure slowly until the desired flow rate is achieved, taking care not to exceed the Maximum operating pressure of the filter.            |
| 5    | When filtration is complete, make sure to release all pressure from the test stand before loosening band clamps and removing tubing from the filter. |

## Ordering information

| Product Code | Product Name       | Qty./Pk. |
|--------------|--------------------|----------|
| 6714-6004    | Polycap GW 0.45 µm | 1        |
| 6724-6004    | Polycap GW 0.45 µm | 100      |



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