

# Particulate Filter

Our particulate filter consist of a tube, two 3/4NPT end caps, 6 size 5 spacers, 1 size 3 spacer, 1 strainer disc, and 4 filter screens.

These devices can be used in various application where pre-filtering is desired. The final filter screen removes particles as large as 0.003". This device can be disassembled and cleaned without having to replace the filtration pack.

## Uses

*Rain Collection Pre-Filter* - The device can be used with rain water collection systems to filter out particles prior to purification filters. This will prolong the life of the more expensive down-stream filters. Valves can be installed on each end allowing for isolation during cleaning.

*Why?* Rain collection systems often contain large debris such as roofing material, plant material, bird feces as well as general dirt that settles on the collection surfaces. All of this material ends up being collected in the reservoir where it continues to leech into the stored water. If the water is purified prior to use, these particles get trapped into the finer purification filters, causing pre-mature failure leading to costly replacements.. Removing these particles prevents further contamination and damage to the down-stream devices.

*Solvent Recycler*- The device can be adapted to a firearm barrel (adapters available from other suppliers) to allow for filtering and reclamation of used solvent from firearm cleaning activities. Due to the viscosity of the fluid, we recommend the addition of caps or washers to support the screens from deflection and omitting the 200 mesh screen. A valve assembly may be installed allowing for controlled draining and capturing of the filtered solvent. For more information, please refer to our Solvent Filter page.

*Why?* Solvents used in the cleaning operation of a firearm present several concerns with environmental impact and damage to nearby items if the solvent spills or splashes. By capturing and reclaiming the used solvent, it does not spill on the ground or damage carpet, furniture or other nearby parts and recycling the fluid until it becomes ineffective is a great way to preserve the environment.

Many people use these as a normal part of the cleaning activity and many people like having these around in case the worst happens and no more cleaning fluid is available. In this case, every drop is precious.

## Customization

With the modular design of our products, customizing the size and amount of filtration compartments is easy. We have several different height spacers and these can be interchanged to provide filtration compartments as small as 0.197".

Dome washers or top caps can be inserted into the filter to provide a more stable support for the filter screens and provide a collection surface for accumulated debris. These come in various sizes so that the bore brushes can pass through without damage.

## Theory of operation

