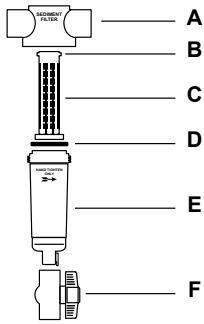


# Installation Guide - Sediment Filter

## Pre-Installation



Item	Quantity	Description
A	1	Filter Cap (1 in. slip or 1-1/4 in. spigot)
B	1	Filter Screen O-ring (pre-attached)
C	1	100 Mesh Filter Screen
D	1	Filter Cap O-ring
E	1	Filter Bowl
F	1	Flush Valvet

1. The maximum water temperature in contact with the filter should not exceed 100°F (38°C) at 40 PSI.
2. The maximum water pressure within the filter should not exceed 150 PSI at 73°F (23°C). Colder temperatures reduce the maximum operating pressure.
3. The sediment filter warranty does not cover any defects that may arise from use with non-potable water, chemicals or other fluids.
4. Lubricants used on O-rings can contain chemicals that are not compatible with filter components. **Silicone grease (DOW 111) should be the only lubricant used on O-rings**

**NOTE:** The filter should be installed in a location that protects it from damage. Potential filter damage considerations should include impact, freeze, excessive heat, sunlight, chemical contact and water-hammer.

5. Adhere to all local and state codes, laws, and regulations when installing the filter.

## Installation

1. Remove the filter bowl (E) and the filter cap O-ring (D) from the PVC filter Cap (A).

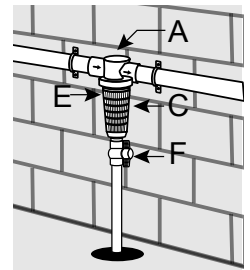
**NOTE:** It is recommended that the filter bowl be removed from the PVC body prior to the gluing process, as any excess glue that comes in contact with the filter bowl will cause damage and void the warranty.

2. The filter cap can be used with either 1 in. or 1-1/4 in. PVC pipe. If using with 1 in. PVC pipes, prime and glue the inside of the filter cap (A) inlet and outlet as well as the outside of the PVC pipes. Insert the pipe directly into the filter cap and allow the glue to set. If using with 1-1/4 in. PVC pipes, prime and glue the outside of the filter cap (A) inlet and outlet as well as the inside of 1-1/4 in. PVC adapters. Slip the adapters over the filter cap inlet and outlet, then connect the appropriate pipes to the adapters.

**IMPORTANT:** Be sure the arrow on the top cap follows the flow of water.

**NOTE:** Use approved PVC primer and solvent cement for gluing PVC connections. Follow gluing instructions outlined on solvent container.

3. Push the 100 mesh filter screen (C) into the bottom of the filter cap (A).
4. Place the filter cap O-ring (D) on top of the filter bowl (E). It will fit around the raised lip.
5. Thread the filter bowl (E) into the filter cap (A). Ensure the O-ring (D) stays in place.



**IMPORTANT:** HAND TIGHTEN ONLY. Do not use thread tape or pipe dope on this connection! The O-ring creates the seal.

6. Thread the flush valve (F) on to the bottom of the filter bowl (E). FINGER TIGHTEN ONLY PLUS 1 or 2 TURNS.

**IMPORTANT:** The use of quality pipe joint compound approved for use with PVC is recommended. If using P.T.F.E. thread seal tape, uneven and/or over application of tape may result in flush valve failure due to stress cracking in all types of PVC/plastic fittings and valves.

### **Installation (continued)**

1. Install the filter in the preferred vertical position with flush valve (F) pointing down. However, the filter will work in the horizontal position if unable to be installed in the vertical position.
  - Optional: Install a pipe into the bottom of the flush valve (F) so that water and sediment can flow to a drain when cleaning. (See CLEANING INSTRUCTIONS below).
  - The filter should be installed where it can be accessed for proper cleaning and maintenance. Unions should be used on the inlet, outlet, and drain line to allow for easy maintenance. A shut off valve should be installed on the outlet side to help with maintenance and cleaning.
  - Install the filter on the pressure side (after discharge) of the pump to allow the filter to be cleaned by flushing collected sediment through the flush valve. This can be installed before or after the pressure tank and pressure switch. However, **if being installed before the pressure switch (between pump and pressure tank) be sure to frequently monitor and flush the Sediment Filter, as a backup of sediment could casuse a lower system pressure. A false reading of system pressure can cause the pump to not shut off and can cause permanent pump damage.**
  - When installing on metallic plumbing, maintain proper electrical grounding. Do not overheat the filter when soldering copper joints.

### **Cleaning Instructions - Flushing the Sediment**

1. The primary method of removing sediment from the system is by flushing separated solids through the flush valve while the filter is under system pressure.
2. Open the flush valve (F) for 15-30 seconds while system is under pressure from the pump or tank.
3. For irrigation systems without pressure tanks:
  - Open the flush valve
  - Make sure sprinkler valves are turned off
  - Turn the pump on for 15-30 seconds. This will flush out the filter screen.

**NOTE:** To avoid water-hammer, always close the flush valve slowly.

4. The filter screen (C) may need to be removed for cleaning. To remove the filter screen, turn off the water supply, drain water from the system, unscrew the filter bowl (E), and remove the filter screen (C). Wash off collected sediment from the screen with warm water. Remove fine particles wedged in the screen by brushing with a soft brush. Apply silicone grease (DOW 111) to O-rings (B and D) if needed. Reassemble filter screen, bowl, and cap O-ring after cleaning. **HAND TIGHTEN ONLY** (Use of tools will void warranty).