



INLINE CENTRIFUGAL SEDIMENT FILTER HOT WATER INSTALLATION INSTRUCTIONS

GENERAL INSTALLATION INFORMATION

1. THIS PRODUCT IS DESIGNED FOR USE WITH HOT WATER UP TO 200°F (93°C). TAKE CARE TO ENSURE THAT PROPER DRAIN LINES ARE INSTALLED IN ORDER TO AVOID PURGED HOT WATER FROM BURNING YOURSELF AND OTHERS.
2. When installing on metallic plumbing maintain proper electrical grounding. Do not overtighten threaded connections. Do not overheat filter when sweat soldering copper joints. (See Fig 1.)
3. Install the filter in a location that protects it from damage. Potential damage considerations include impact, freeze, excessive heat, chemical contact, water hammer, etc.
4. Install the filter in the vertical position with the purge outlet pointing down, whenever possible. Do not install the filter with the purge valve pointing up past the horizontal position.
5. Refer to the arrow on the filter body for correct water flow direction when installing the filter.
6. The filter should be installed where it can be accessed for proper cleaning and maintenance. Install a union on the purge valve to avoid restricting access to the removable cover and element.
7. Install the filter on the pressure (discharge) side of the pump, after the pressure switch, to protect the pump and allow the filter to be cleaned without losing pump prime. (See Fig 2.)
8. Installation of a shut-off valve on the outlet side of the filter is recommended for more effective cleaning. (See Fig 3.)
9. An air gap, or loop, should be installed between the purge valve and any shut-off device to prevent backflow when the water is not flowing.
10. Adhere to all local and state codes, laws, and regulations when installing the filter.

CLEANING INSTRUCTIONS

1. **FLUSH CLEANING:** The primary method of cleaning the filter is flushing separated solids through the purge valve to a safe drain location by opening the purge valve while the filter is under system pressure. (See Fig 3.) The purging process can be automated with an Automatic Flush Valve (AFV)—consult your distributor for details.
2. **MANUAL CLEANING:** Occasionally the filter element may need to be manually cleaned. Shut off the water supply (or isolate the filter by shutting the valves around it), drain hot water, and allow parts to cool. Remove the cover and clean the element with a water spray or a soft brush and water. Apply silicone grease to the o-rings if needed. (Note: Do not use Vaseline or any petroleum based product on o-rings.) Reassemble the filter after cleaning. **HAND TIGHTEN ONLY!**

IMPORTANT!

1. *Maximum water temperature in contact with filter should not exceed 200°F (93°C) at 40 psi.*
2. *Maximum water pressure within the filter should not exceed 150 psi at 120°F (48.8°C).*
3. Hot water flushed through the purge valve must be drained to a safe location. **SEVERE BURN OR INJURY MAY RESULT FROM AN UNSAFE DRAIN LOCATION.** Do not use a brass or metal ball valve for the purge valve. Use a CPVC ball valve only.
4. **DO NOT USE WRENCHES ON PLASTIC FILTER PARTS. HAND TIGHTEN ONLY (USE OF TOOLS WILL VOID WARRANTY).** When installing the filter, follow industry-wide thread tightening recommendations for plastic pipe thread connections. Manufacturers of pipe fittings recommend that plastic pipe thread joints be assembled by applying a non-hardening Teflon thread sealant to the thread and turning the fitting one or two turns past finger tight.
5. Fluids other than water (and some chemicals within water) can degrade plastic filter components. Degraded plastic filter components may lead to failure of the filter. Chemicals and plastic filter components should be evaluated with a chemical resistance chart and actual conditions for proper chemical compatibility.
6. Some pipe thread sealants contain chemicals that are not compatible with plastic filter components. Teflon tape or virgin Teflon paste should be the only pipe thread sealant used. Threaded filter connections that have o-ring seals do not require thread sealant.
7. Lubricants used on o-rings can contain chemicals that are not compatible with plastic filter components. Silicone grease (Dow 111) should be the only lubricant used on o-rings.

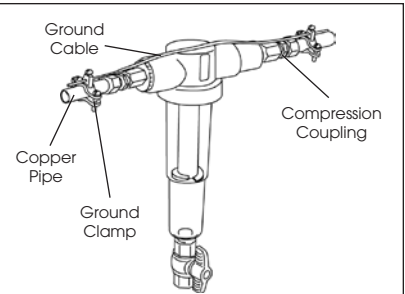


Fig 1. Installation for Copper Pipe.

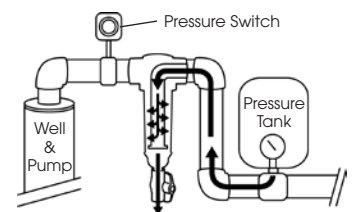


Fig 2. Backflushing.

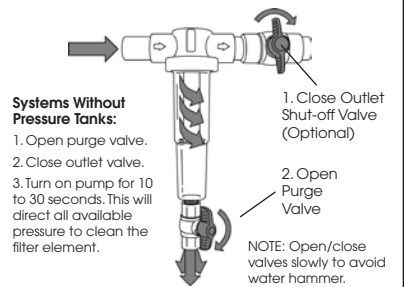


Fig 3. Cleaning the Filter.

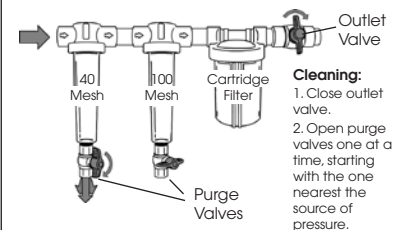


Fig 4. Step Down Filtration.

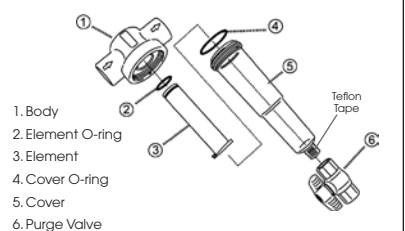


Fig 5. Filter Parts.