

## Winterizing Recreational Vehicle Water Systems and Components: Suggested Procedures

Always refer to the coach manufacturer and other equipment manufactures for their specific winterizing and drainage instructions. The general idea of all winterizing procedures is to either get all, or as much as possible, of the water out of the product before it freezes, or to keep the water from freezing.

**The best guarantee against damage is to completely drain the water system.**

**Potable anti-freeze may still be poured in the drains to protect the waste system from freezing.**

SHURflo Electric Water pumps, Models 100, 2088, 2093, 2095, 4000, 5900

**NOTE:** When used per the manufacturers recommendations *non-toxic antifreeze for potable water* is safe for use with the SHURflo pumps listed above. **Make sure all components in the system are compatible. Hot water heaters and filters must be by-passed when using potable water anti-freeze.**

**WARNING:** *Do not use Automotive Antifreeze* to winterize potable water systems. Such solutions are highly toxic. Ingestion may cause serious injury or death.

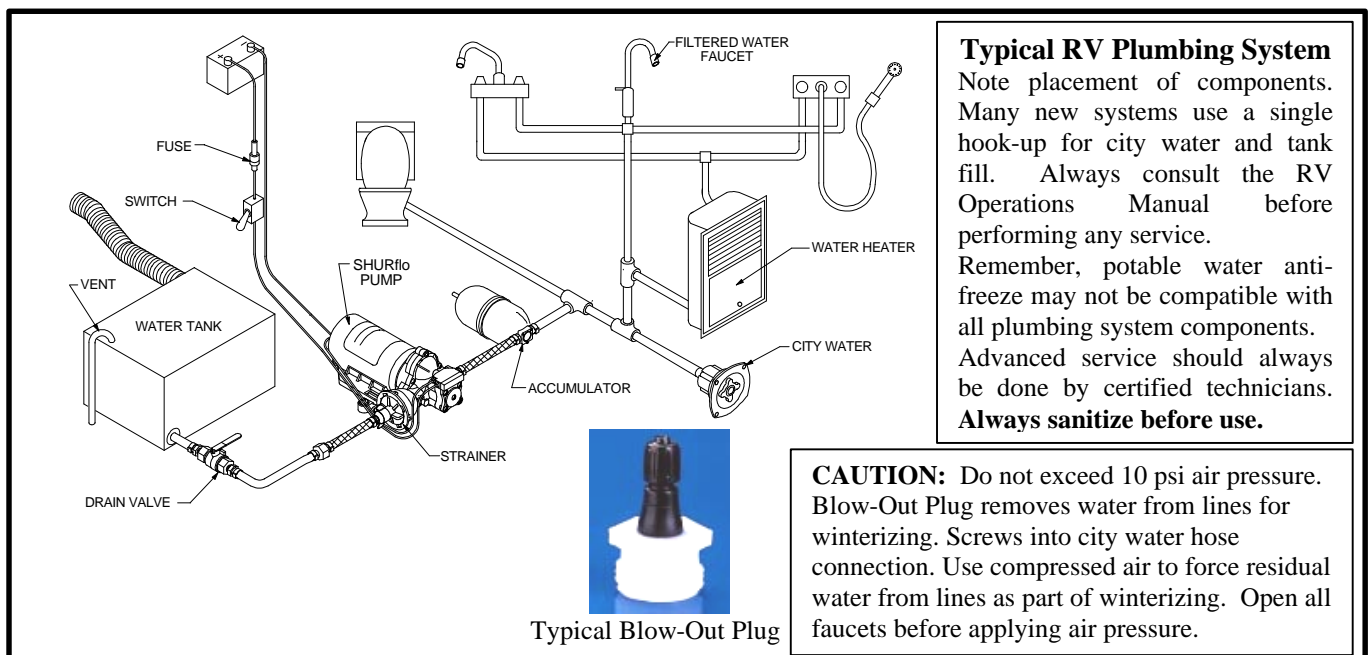
To properly drain the system perform the following:

1. Drain the water tank. If the tank doesn't have a drain valve, open all faucets allowing the pump to operate (15 min. ON / 15 min. OFF) until the tank is empty.
2. Open all the faucets (including the lowest valve or drain in the plumbing) and allow the pump to purge the water from the plumbing, then turn the pump OFF.
3. Using a pan to catch the remaining water, remove the plumbing at the pump's inlet/outlet ports. Turn the pump ON, allowing it to operate until the water is expelled. Turn OFF power to the pump once the plumbing is emptied. Do not reconnect pump plumbing. It is o.k. to lightly cover plumbing ends to prevent bugs from entering the system. Make a note at tank filler as a reminder: "Plumbing is Disconnected".
4. All faucets can be left open to guard against any damage. Winterizing fluid can now be poured into p-traps.
5. Fill system and **sanitize before use** in Spring.

Strainer Drain as much water from strainer as possible. Pump procedure should work.

Accumulator The same procedure to winterize pumps should work for winterizing accumulators. The best mounting for drainage is with the air side up & water port down. Be sure to check air pressure on the accumulator in the Spring, before pressurizing the system. Air pressure should be close to the restart pressure of the pump.

City Water Entry The same procedure to winterize pumps should work for winterizing city water entries. City water entry can be completely dried out by using an air fitting specifically made to fit 3/4" Garden Hose Fittings. These are readily available at most RV dealers/retailers. **CAUTION:** Open all faucets before applying air. Never exceed 10 PSI pressure.



## SHURflo In-line Water Filters and Faucets

### Winterizing or Changing Filter

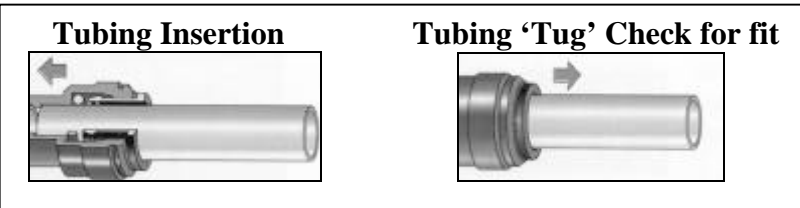
1. Turn off pump, relieve pressure, drain system, and either:
  - a) close shut-off valve (if equipped) and disconnect filter, or,
  - b) disconnect filter and drain, or install by-pass fitting.
2. Discard old filter.

### RV-6FJG and RV-10FJG Filter removal:

1. Remove filter from clip.
2. On outlet side, press collet towards filter body, and pull outward on tubing until tubing comes free. Tubing may have to be wiggled slightly when removing.
3. Repeat step 2 on filter inlet side.

If tubing will not easily come out of filter, it may be cut off. Before cutting, make sure there is enough extra tubing to install a new filter.

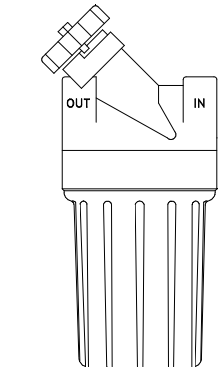
**Make sure new cut end is square, even with no burrs.**



### Winterizing Faucet, SHURflo RV Models

Turn off pump, relieve pressure, drain system, and open faucet to allow all water to drain from faucet. Tubing can be removed from the faucet in the same manner as removing from the filter. A slight gurgling sound may be heard as water drains from the faucet.

**Always check tubing for scratches and burrs before reassembly. Cut off bad portions of tubing.**



### SHURflo Housing-Style Water Filters

#### Winterizing or Changing Filter

1. Turn off pump, open faucet to relieve pressure, drain system and close shut-off valve, or depress pressure relief valve (if equipped) and unscrew filter housing.
2. Discard old filter cartridge.
3. Check all o-rings and components before reassembly. Replace any damaged components and lubricate o-ring before reinstallation.
4. Replace housing with no filter cartridge. If leaving the system dry, do not tighten cartridge completely. If filling system with winterizing fluid, tighten housing and fill system with potable water winterizing fluid per manufacturer's instructions.
5. Leave a note at tank fill that filter is disconnected from system.
6. Follow instructions with new cartridge for reinstallation in Spring.

**ALWAYS SANITIZE ANY SYSTEM BEFORE USE AFTER WINTERIZING!!!**

**To sanitize:** add 1.5 oz bleach for every 10 gal. tank capacity. Fill tank with water, open all faucets until bleached water comes out, turn pump off, set for 4 hours, drain, rinse until taste-free.



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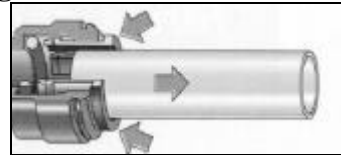
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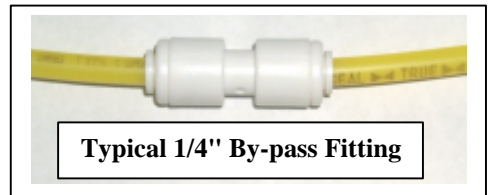
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### Tubing Removal From Filter & Faucet

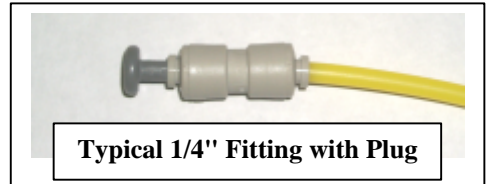


Simply push in on collet, and pull on tube.

ⓈTip: Collet can be easily held down by sliding a 1/4" or 9/32" open-end wrench over the tubing and pressing on the collet.



Typical 1/4" By-pass Fitting



Typical 1/4" Fitting with Plug