



## Float Level Control Kits

ASOFK, SPFK and FLC



**SpectraPure®Inc.** assumes no responsibility for water damage due to leaks. It is the user's responsibility to determine that the system is leak-free.

## INSTALLATION AND OPERATING MANUAL

# *SpectraPure*<sup>®</sup>

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## TABLE OF CONTENTS

### Kit Information

Terms & Conditions.....	3
Warranty.....	4-5
What Does The Kit Do?.....	6-7

### Installation

Installation of Aso Valve & Check Valve.....	8-9
Push Fitting Installation.....	10
Assembly Instructions for Float.....	11
Typical Assembly.....	12

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2167 East Fifth St, Tempe, Arizona 85281

# *SpectraPure*<sup>®</sup> TERMS AND CONDITIONS

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## TERMS AND CONDITIONS OF SALE

1. Shipping charges on units or parts submitted to our facility for repair or replacement must be borne by the registered purchaser. After repair or replacement, the factory will return the unit or part freight prepaid to the customer.
2. We assume no warranty liability in connection with our equipment other than as herein specified.
3. This warranty is in lieu of all other warranties expressed or implied, including warranties of fitness for a particular purpose.
4. We do not authorize any person or representative to assume for us any other obligation on the sale of our equipment. This is the exclusive remedy and liability for consequential damages under any and all warranties which are excluded to the extent exclusion is permitted by law.
5. Proof of original purchase date must accompany all warranty claims.
6. SpectraPure, Inc. reserves the right to change prices without notice when necessary. All prices in the catalog are quoted in US dollars.
7. Claims for error in quantity or condition must be made within 10 days of receipt of material. SpectraPure, Inc. will not be responsible for any claimed shortages not reported within 10 days. Returns other than warranty claims may be subject to 20% restocking fee.
8. SpectraPure, Inc. cannot be held liable for damage or loss to a shipment by a freight carrier. Check shipment for damage before acceptance or note on freight bill subject to inspection for concealed damage. Consignee must file claim. SpectraPure, Inc. will offer as much assistance as possible.
9. A complete credit check is required prior to shipping on a Net 30 or "C.O.D. - CUSTOMER CHECK ACCEPTABLE" basis. In the interim period during which credit references are being evaluated, all orders must be shipped "C.O.D. - CERTIFIED FUNDS" (cash, cashiers check or money order).
10. All returned checks (due to insufficients funds or closed accounts) will be subjected to a **\$25 penalty charge**.

Invoices on Net 30 accounts not paid within 30 days of shipment will be considered delinquent and will accure Finance charges at the rate of 1.5% per month (18% per annum).

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### **TWO YEAR LIMITED WARRANTY**

Effective on products purchased after March 10, 2005.

SpectraPure, Inc.® warrants the product to the original owner only to be free of defects in material and workmanship for a period of two years from the date of receipt. SpectraPure's liability under this warranty shall be limited to repairing or replacing at SpectraPure's option, without charge, F.O.B. SpectraPure's factory, any product of SpectraPure's manufacture. SpectraPure will not be liable for any cost of removal, installation, transportation or any other charges which may arise in connection with a warranty claim. Products which are sold but not manufactured by SpectraPure are subject to the warranty provided by the manufacturer of said products and not by SpectraPure's warranty. SpectraPure will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair or, if the product was not installed in accordance with SpectraPure's or other manufacturer's printed installation and operating conditions, or damage caused by hot water, freezing, flood, fire or acts of God.

SpectraPure will not be responsible for any consequential damages arising from installation or use of the product, including any water or mold damage due to flooding which may occur due to malfunction or faulty installation, including, but not limited to failure by installer to over- or under-tighten fittings, housings, and/or push-style fittings, or improper installation of push-style fittings. Consumable items such as pre filters and membranes are not covered under the 2 year warranty.

SpectraPure warrants (pro-rated) the performance of tested SpectraSelect™ RO membrane elements only, for one year from date of receipt by the buyer, providing that the loss of performance was not caused by fouling, neglect or water conditions exceeding the feed water parameters listed in the applicable product manual (refer to detailed membrane warranty information). SpectraPure will, on confirmation of loss of performance during the warranty period, credit the pro-rated amount of the current catalog price of the element. The disposable filters and cartridges are not covered under the warranty.

To obtain service under this warranty, the defective system or components must be returned to SpectraPure with proof of purchase, installation date, failure date and supporting installation data. Any defective product to be returned to the factory must be sent freight prepaid; documentation supporting the warranty claim and a Return Goods Authorization (RGA) number must be included. SpectraPure will not be liable for shipping damages due to the improper packaging of the returned equipment and all returned goods must also have adequate insurance coverage and a tracking number.

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SpectraPure will not pay for loss or damage caused directly or indirectly by the presence, growth, proliferation, spread or any activity of "fungus", wet or dry rot or bacteria. Such loss or damage is excluded regardless of any other cause or event that contributes concurrently or in any sequence to the loss. We will not pay for loss or damage caused by or resulting from continuous or repeated seepage or leakage of water, or the presence or condensation of humidity, moisture or vapor, that occurs over a period of 14 days or more. "Fungus" and "fungi" mean any type or form of fungus or Mycota or any by-product or type of infestation produced by such fungus or Mycota, including but not limited to, mold, mildew, mycotoxins, spores, scents or any biogenic aerosols.

SpectraPure will not be liable for any incidental or consequential damages, losses or expenses arising from installation, use, or any other causes. There are no expressed or implied warranties, including merchantability or fitness for a particular purpose, which extend beyond those warranties described or referred to above.

**\* The two year limited warranty does not apply to consumable items, including but not limited to, filters and cartridges unless specifically stated above**

#### **Feed water requirements\***

- Minimum Operating Pressure: 40 psi (2.75).
- Maximum Operating Pressure: 80 psi (6.9 bar).

\*Most municipal water supplies meet the above requirements.\*

### WHAT DOES THE KIT DO?

The Float Level Controller (FLC) provides an economical way to automatically fill open reservoir storage tanks. The Automatic Shut-Off (ASO) valve, in conjunction with the float valve, check valve and mini-bladder tank, provides positive and complete shut-off of the waste water and product water lines, thus conserving water when the system is not in use.

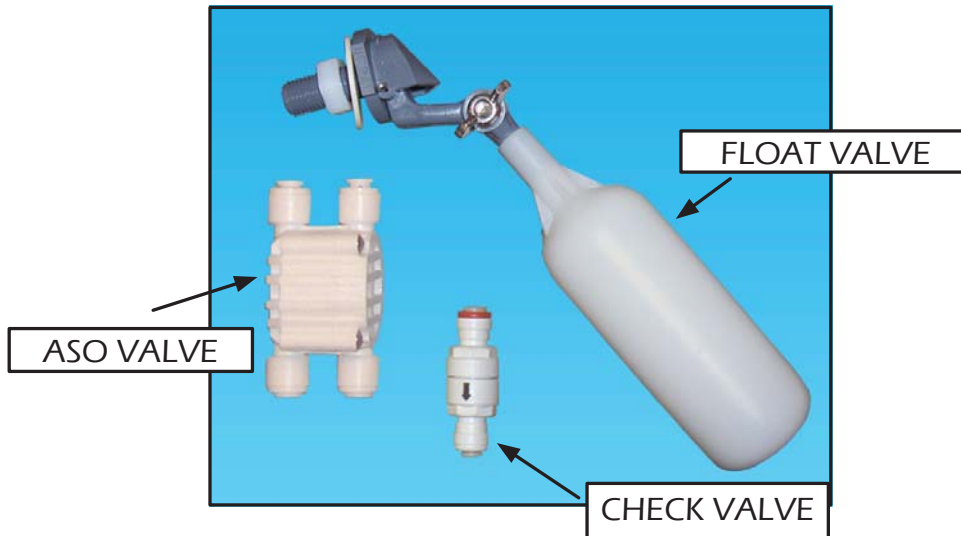
The Automatic Shut-Off Kit (ASOFK) is most often used in conjunction with a Drinking Water System, which already includes a pressurized bladder tank.

An optional float kit is needed for filling each additional sump or reservoir. Our Float Kit (SPFK) includes a stainless steel float valve and union Tee. The installation of the float valve requires a 9/16" mounting hole in the tank or reservoir.

Note: The Float Level Controller is **not** recommended for **evaporation replacement** in aquariums. For these applications, we recommend either our SpectraPure Single Tank Liquid Replenisher (LLC-S-115) or Multiple Tank Liquid Replenisher (LLC-M-115).

<b>ASOFK Kit:</b>	
Auto Shut-Off (ASO) Valve	Pressure-operated device that shuts off water supply to RO membrane when the product line pressure equals 2/3 of the supply line pressure.
1# Check Valve	Prevents pressure in product water line from leaking back into the RO membrane.
Float Valve	Installed in conjunction with ASO Valve, shuts off product water going to open reservoir.
<b>FLC Kit:</b>	
Everything in the ASOFK Kit plus:	
Mini-Bladder Tank	Provides beneficial back-pressure for smoother operation of ASO Valve.
1/4" Ball Valve	Convenient shut-off control for individual reservoirs
<b>SPFK Kit:</b>	
Float Valve	Shuts off product water going to additional reservoir.
1/4" Union Tee	Allows more than one vessel to be filled.

**Fig. 1: ASOFK Components**



**Fig. 2: FLC Additional Components**



- For unattended filling of tanks, reservoirs and storage containers
- Positive shut-off; completely shuts off all waste & product water
- Use for the automatic filling of multiple open reservoir storage tanks
- Reservoirs can be located any distance away from the RO or RO/DI system

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### Installation of ASO & Check Valves

1. Locate the Black Tube between the Carbon Filter and the Membrane.
2. Cut the Black Tube in half.
3. Insert the cut end from the Carbon Filter into the IN Port of the ASO Valve.
4. Insert the cut end from the RO Membrane Housing into the OUT Port of the ASO Valve.
5. Locate the Blue Tube (product water) that leaves the RO Membrane Housing.
6. Cut the Blue Tube 1" from the membrane housing.
7. Using the 1 lb Check Valve, reconnect the two cut ends with the arrow pointing away from the membrane.
8. Position the Blue Tube along side the ASO Valve to determine where the blue tube needs to be cut. Then cut the blue tube and reconnect the two cut ends with the two remaining ports of the ASO Valve.

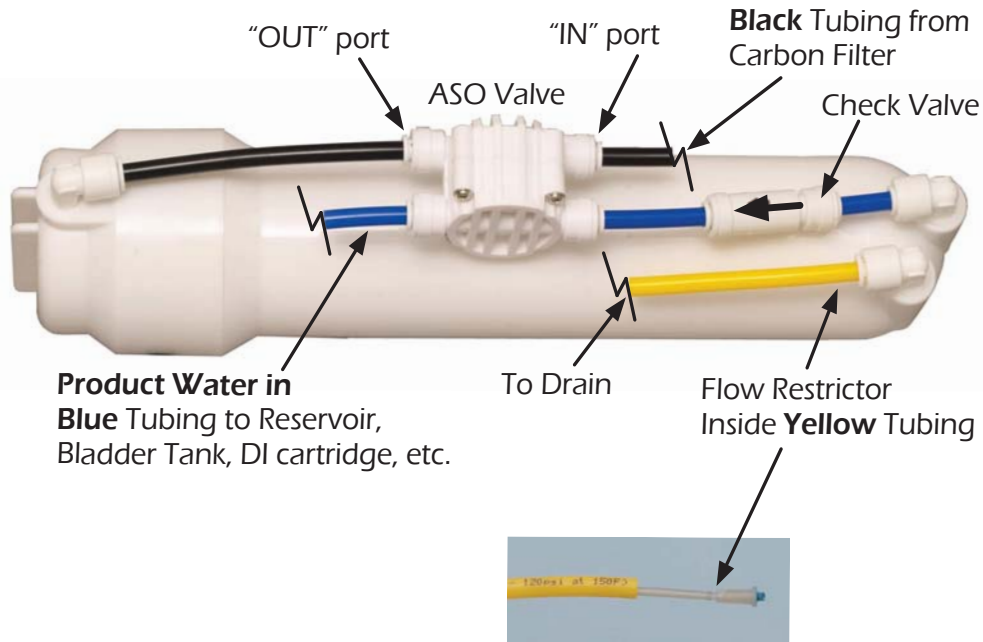
**IMPORTANT:** This kit does not have a back-up shut-off device. It is the user's responsibility to determine that the system is working properly for a period of 72 hours, after installation. If the float fails, SpectraPure is not responsible for water damages.

As an optional over-flow prevention, you could connect a bulk-head fitting to a drain line where it would act as an overflow to drain, should the float fail.

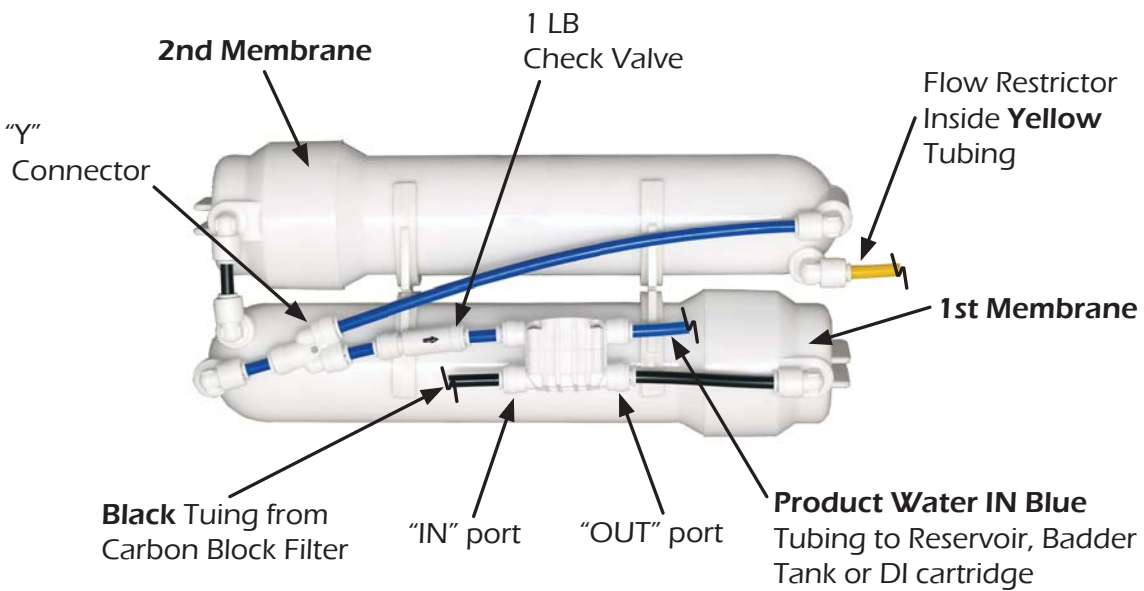
*(THIS KIT IS NOT RECOMMENDED FOR EVAPORATION TOP-OFF)*



**Fig. 2: Installation of ASO and Check Valve  
For Single Membrane Systems**



**Fig. 3: Installation of ASO and Check Valve  
Back View of Dual Membrane Systems**



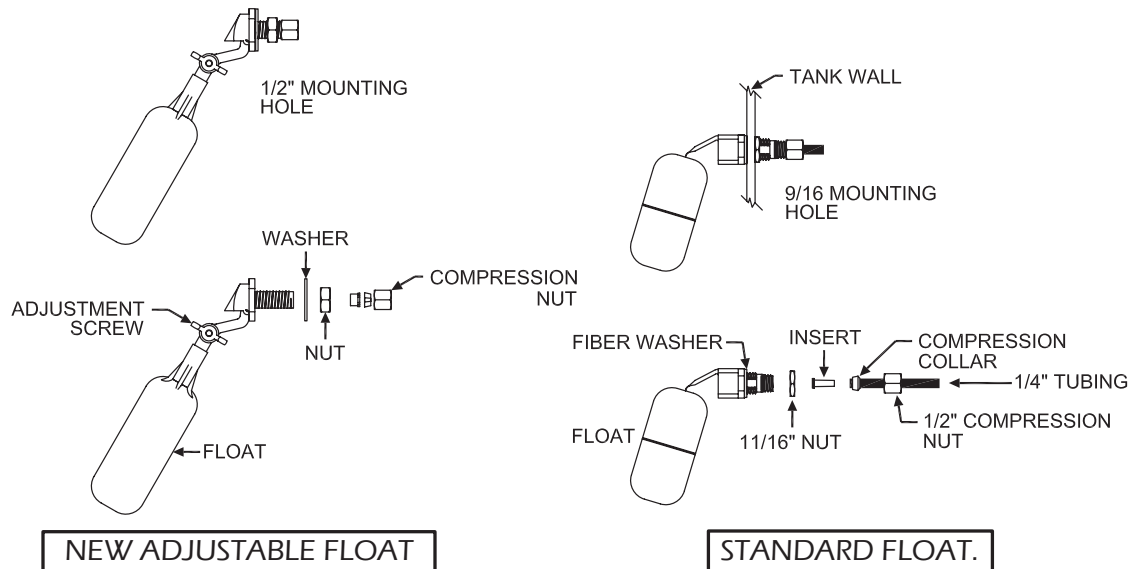
### INSTALLATION INSTRUCTIONS FOR FLOAT

1. Drill a 1/2" hole into your sump or reservoir: \*If the thickness of the sump is too thick for the Float to install properly, you need to counter-bore the hole.

- NOTE: If you are installing the Back-up Safety Float onto an acrylic tank we recommend using a new Fostner Bit to reduce the chance of cracking the acrylic.

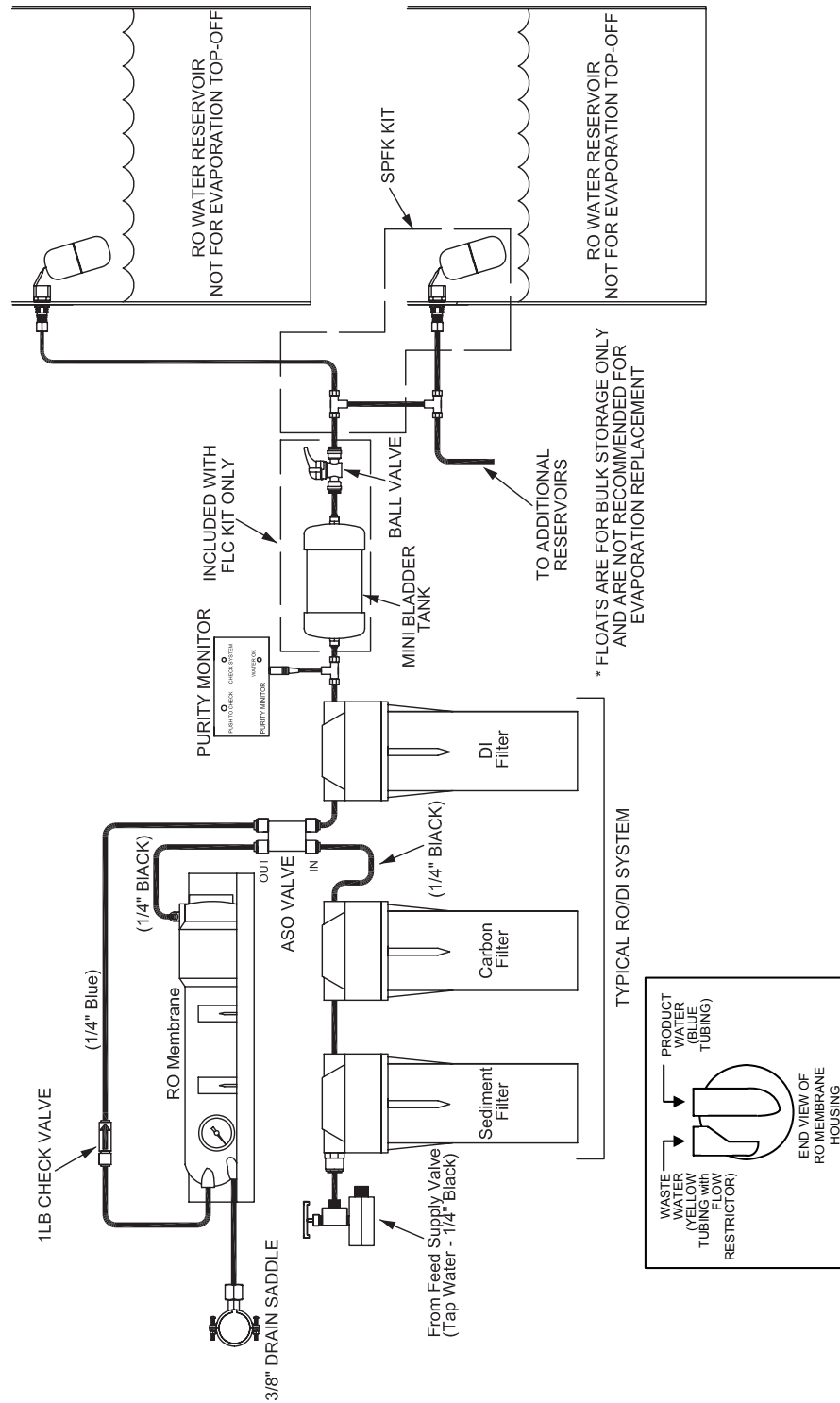


2. (REFER TO DIAG) Remove the Compression Nut from the float body.
3. Insert the 1/4" Blue Tubing into the 1/2" Compression Nut with the threads towards the end of the tube.
6. Unscrew the Nut from the float body.
7. Insert the float body and washer into the 1/2" hole and tighten the Nut, which securely tightens the float to the tank wall.
8. Push the Compression Nut towards the end of the tubing and screw the Compression Nut back onto the float body.
9. To tighten, use one 1/2" wrench on the flats of the plastic threads and another 1/2" wrench on the compression nut.



\* Kit includes the new adjustable float

### ASOFK AND FLC INSTALLATION DIAGRAM



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