



### What Are the Benefits of This Upgrade?

Installing this kit will eliminate the effects that TDS Creep has on your DI resin, saving you hundreds of dollars in DI resin replacement costs.

TDS creep is a term used to describe the normal process which occurs when your RO/DI system is turned off. When the system is not running, the rejected high TDS water surrounding the outer core of your RO membrane equalises with the ultra pure water inside the membrane's inner core, raising the TDS to levels that are usually

above 80 ppm in TDS. When the system is then turned on, this high TDS water floods your DI resin, shortening its life unnecessarily.

This upgrade allows you to divert the initial, high TDS water produced by your RO/DI system to your waste water line, rather than the DI resin. Once your TDS monitor displays your normal, operating TDS (usually <10ppm), you can divert the product water back through your DI stage.

Doing so will save your DI resin from having to absorb this high TDS, which will result in a dramatic increase in the life of your DI resin and will heavily reduce your replacement costs.

### What Do I Need?

This kit includes everything that you will need to successfully upgrade your system with a resin saver valve.

Please ensure that you have received all of the following parts:

- 1 x 3 Way 1/4" Quick Connect Ball Valve
- 1m of Red 1/4" tube
- 1/4" Tube Splitter

### Useful Tools



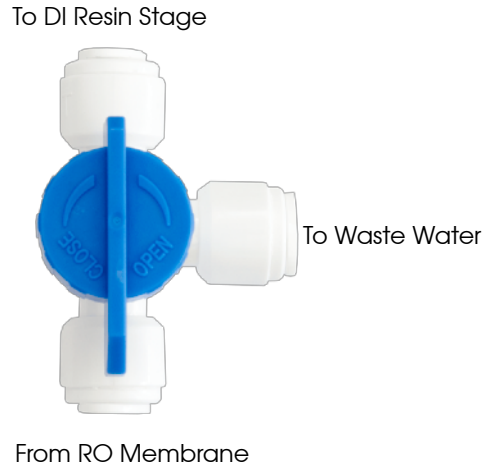
- RO Tube Cutters or a Utility Knife



## Installation Instructions

The 3 Way 1/4" Quick Connect Ball Valve must be positioned directly between your RO membrane and the DI resin stage of your system.

1. Begin by locating the tubing which connects the product water from you RO membrane and your DI resin stage. This is where the 3 Way 1/4" Quick Connect Ball Valve will be installed. If you have a TDS monitor installed on this line, be sure to locate a section of this tubing which is between the TDS monitor probes and the DI resin stage.
2. Make a clean, straight cut in the tubing and connect each end of the 3 Way 1/4" Quick Connect Ball Valve as illustrated in the diagram below.



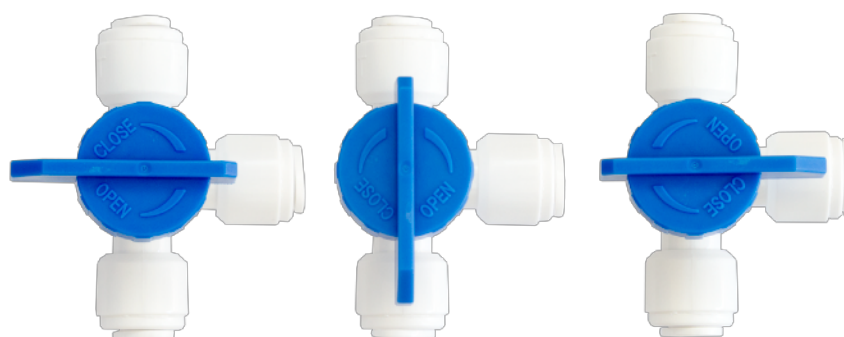
The 1/4" Tube Splitter must be installed on your existing waste water line. The purpose will be to merge the waste water outlet on the 3 Way 1/4" Quick Connect Ball Valve with your existing waste water line.

3. Locate a section on your existing waste water line and make a clean, straight cut in the tubing and connect each end of the 1/4" Tube Splitter as illustrated in the diagram below.



## Operating Instructions

1. Before turning your RO/DI System on, ensure that the 3 Way 1/4" Quick Connect Ball Valve is set to the 'Flushing' position as illustrated below. This will direct all high TDS water to your waste water line. The amount of time that it takes for the water to be flushed from the system will vary from system to system, however, it can easily be monitored by viewing your inline TDS monitor.
2. Once the TDS drops to your normal operating TDS (usually < 10 ppm), the water has been flushed and you can set the valve to the 'Normal Operation' position as illustrated below. This will redirect water to your DI resin stage for normal filtration.
3. Once you are done running your system, return the valve to the 'Flushing' position.



Closed

Normal Operation

Flushing



Avoid setting the 3 Way 1/4" Quick Connect Ball Valve to the 'Closed' position for any length of time as this could potentially allow waste water to back siphon into your DI resin stage.

## Need Help?

We are always here to help! Please get in touch with us...



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