

## What Are the Benefits of This Upgrade?



This kit will help to significantly increase the usable life of your RO membrane and ensure that it is always working optimally.

Over time, deposits become lodged in the RO membrane and if these deposits are not flushed from the membrane, they will reduce the RO membrane's overall life and performance.

## What Do I Need?

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

## Useful Tools

- RO Tube Cutters or a Utility Knife



## Before You Get Started!

All Reef Pure RO/DI systems utilise capillary style flow restrictors. As this upgrade will be replacing the existing restrictor, it will need to be removed.

To remove it, disconnect the red or black waste water tubing from the wastewater outlet on your RO membrane housing. If your system has dual RO membranes, this will be on the last membrane and not the first.

The capillary flow restrictors are housed inside the 90° waste water elbow, which is connected to the RO membrane housing. They can easily be removed by unscrewing the 90° elbow from the membrane housing and pulling the flow restrictor out of the elbow. They are usually a colour other than white and therefore easy to identify. Once the flow restrictor has been removed, replace the elbow.

## Installation Instructions

1. To prepare your RO/DI system for the upgrade, please ensure that the feed in water has been turned off before disconnecting any plumbing on your system. It is best to complete this work in an area prepared to contain any water which may drain from your system.
2. Locate the red or black waste water tube connected to your RO membrane. If you have dual RO membranes, it will be the last membrane in series that you will be looking for.
3. Once located, check the tubing for any barrel style flow restrictors that may already be installed. If any are found, then remove these.



**IMPORTANT:** Some Reef Pure RO/DI systems utilise capillary style flow restrictors. These are housed in the 90° waste water elbow, which is connected to the RO membrane housing. This can easily be removed by unscrewing the 90° elbow from the existing membrane housing and pulling the flow restrictor out of the elbow. They are usually a colour other than white and therefore easy to identify. Once the flow restrictor has been removed, replace the elbow.

4. If you did have a barrel style restrictor, then you can simply replace this with the new Membrane Flush Valve.
5. If a capillary style flow restrictor was installed, then simply cut the red or black waste water tubing, approximately 10-20cm away from the RO membrane housing outlet and install the Membrane Flush Valve inline.



**IMPORTANT:** It is critical that the flush valve is installed with the flow indicator arrow on the label pointing away from the RO membrane and not towards it.

## Before Turning the System Back On...

### To operate the Membrane Flush Valve

When the handle on the valve is "in line" the valve is bypassing the flow restrictor and is in "flush mode,"



When the handle is perpendicular to the valve, then the unit is ready for normal use.



It is good practice to flush the RO membrane for 5 minutes, before and after making RO/DI water. If you do forget, don't worry, it is not crucial that you flush the membrane each time but if flushing as often as possible will be very beneficial.

### **Need Help?**

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



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