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Marine Plumbing System Maintenance Guides

Pro Series Valve & Seacock Handle O-Ring Replacement Guide



A Step-by-Step Guide For Replacing The Two Handle O-Rings On All Pro-Series Valves

All Marelon valves are built to last the life of your boat and will not corrode like standard bronze valves. That said, almost every part of your boat requires some occasional maintenance. This includes Marelon plumbing valves.

This guide is intended to be used by anyone who has Marelon Pro Series (93 Series) valves that require handle O-ring maintenance.



Note: O-rings highlighted in blue for visibility – actual O-rings are black

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This Guide is
Suitable for Any
Type Pro Series
Valve Regardless
of Shape or Size



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How Do I Know If I Have To Replace My Valve's O-Rings?

If a valve is used as toilet valve, the handle O-rings might degrade over time due to the use of harsh chemicals such as bleach or formaldehyde. When the O-rings are degraded, there might be occasional drips from the handle area. This indicates it is time to replace the O-rings.

Fortunately, this is a simple process that will make the valve function like new and you'll never need to replace the entire valve.



Required Tools

- ✓ One Phillips head screwdriver.
- ✓ One small flathead screwdriver or similar sized pry tool.
- ✓ One pair of disposable gloves is also recommended for lubrication application.
- ✓ Paper towel or rag to wipe excess lubricant.
- ✓ Tape measure or ruler with inches.



Maintenance Kit Contains

- ✓ A complete set of replacement O-rings to fit any size Marelon Pro Series or 93 style valve. Use table below to select correct size.

Valve Size

Large (1 1/2" - 2")

Medium (1" - 1-1/4")

Small (1/2" - 3/4")

Needed O-rings Sizes

Large Outer - Large Inner

Medium Outer - Large Inner

Small Outer - Small Inner

(Next page shows how to determine your valve's size)

- ✓ MareLube valve lubricant.
- ✓ One machine thread screw for use with small valve handles.
- ✓ One coarse threaded self-tapping screw for use with large and medium size valve handles.



Step One: Measure What Size Valve You Have

There are three general body sizes of Pro Series valves. Before getting started, you need to identify your valve size. To determine this, measure the body width across the center and use the table below to make sure you select the correct O-rings from the set included in this Valve Maintenance Kit as shown on the previous slide. You will only need to use two of the included O-rings to complete the maintenance process.

Measure across the valve body as shown and use chart below to determine what size valve you have



Medium Size Valve Shown

Measurement Valve Size

2-7/8"
2-1/4"
1-3/4"

Large (1 1/2" - 2")
Medium (1" - 1-1/4")
Small (1/2" - 3/4")

Use O-rings (See previous slide for example images)

Large Outer - Large Inner
Medium Outer - Large Inner
Small Outer - Small Inner

Step Two:

VERY IMPORTANT!

Place handle in closed position

If the boat is in the water, it is very important that the valve is closed before you proceed to eliminate the possibility of rapid water intrusion. The valve should remain in the closed position throughout the maintenance process. If in doubt, check the handle label arrows to confirm the closed position.

Check your handle label to ensure valve is closed



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Step Three:

Remove any handle plugs

To gain access to the internal screw that holds the valve's handle in place, any handle plug needs to be removed.

There are two types of plugs:

Emergency Plug - Handle plug has half-circle ring extending from center of white plug. To remove, simply grab the ring and pull the plug straight out. It is not threaded.

Blank Plug - If your valve handle has a blank white plug, you will need to use a small screwdriver or pry tool to gently pry the plug up and out of its handle socket. Insert the tool with a bit of force and gently pry the plug upwards little by little, being careful not to damage the plug or handle.



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Step Four:

Remove handle screw

Once handle plug is removed, unscrew the screw located in the center of the area just exposed by removing the plug. Turn screw counter-clockwise with your Phillips screwdriver until the screw is completely removed.

Important Note !

DO NOT remove or loosen the top four large screws that hold the valve body components together.

Doing so voids warranty and will cause significant water intrusion.



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Step Five:

Remove handle

Gently pull the handle straight out, being careful not to rotate it out of the closed position as you pull it away. Once removed, you will see the geared splined ball exposed inside.

Important Note:

Be sure to notice and mark the handle position before removal so it can be replaced into the exact same position when reinstalled.



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Step Six:

Remove small O-Ring

Gently pry up the smaller inner O-ring located in the center of the spline gear ball using a small pry tool. Be careful to not damage the spline O-ring groove as you pry to ensure that the new O-ring will sit properly onto the groove once replaced.



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Step Seven:

Remove large O-Ring

Gently pry out the larger O-ring from the outer rim of the open valve body using the small pry tool. As before, be careful not to damage the O-ring groove itself as you pry.

Important Note: Sometimes this O-ring will remain wrapped around the base of the handle when removed. If it looks like there is no O-ring present, check the handle before probing into the groove with the pry tool to avoid potential groove damage.



Step Eight:

Replace O-Rings and apply lubricant

Gently press the new O-rings into the position making sure they are both deeply and evenly seated into their appropriate groves.

Once in place, carefully apply a thorough layer of MareLube or equivalent PTFE lubrication to the outer surface of both O-rings.



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Step Nine:

Replace handle

Place handle loosely into valve socket making sure it is in the same position as it was when removed.

Push handle firmly down into socket by pressing straight down on the valve handle screw hole with your index finger. Be sure the handle gears mesh with the valve ball gears and that it is firmly seated all the way into the socket before moving on to the next step.



Step Ten:

Select the correct handle set screw to avoid stripping the valve ball by using the wrong screw

Two different types of screws came with your kit



Machine Threaded Screw

- ✓ If you have a small size valve, select the tight thread machine screw. This screw is **ONLY** for use with small size valves and handles.



Coarse Threaded Self-Tapping Screw

- ✓ If you have a medium or large size valve, select the coarse threaded self-tapping screw.

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Step Eleven:

Replace handle screw & plug

Thread the selected handle screw through the handle screw hole and into the valve ball inside. Hand tighten screw using screwdriver.

Do Not Over Tighten as you may strip the threads inside the valve ball.

Once the screw is in place, replace the handle plug and you're done!



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