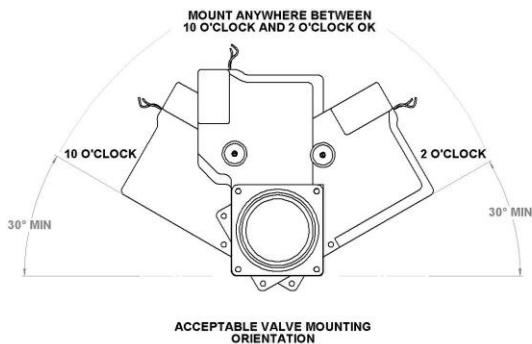




Marine Ballast Valve Cleaning and Maintenance Procedure



Your new Drain Master Marine Ballast Valves are designed to give you years of trouble free service. The length of time between service intervals will vary depending on usage, and water conditions on your area. Removing the valves at the end or beginning of the season and lubricating them will insure years of trouble free use.



If you notice a change in the valves opening speed or a change in the sound when opening or closing, i.e. the valve seems to be laboring, it is time to perform the following maintenance. Note: Please call our customer service department at (877) 787-8833 toll free if you have any questions **before** you remove the valves. It is recommended that you purchase our Seal Kit Part # 5754. Order online www.drainmastermarine.com or call 877 787 8833 toll free to insure you have the proper grease and new seals.

1. Disconnect the electrical plug from the valve to the wire harness. Remove the 4 bolts holding the Drain Master Marine Ballast Valve in the piping.
2. Separate the flanges holding the valve until the valve can be removed.
3. Remove the 2 seals from the valve or the flanges and dispose of them.
4. Clean the area around the two flanges and check for cracks or cuts in the flanges. If necessary replace the defective flange.
5. The valve needs to be soaked in a soapy solution. Some concentrated soap, dish or laundry soap works fine. You will need a small bucket or container to soak the valve in. If you use a bucket you can tie the wires to the handle so the gate area of the valve is submerged in the soapy solution.
6. **IMPORTANT.** Do not fully submerge the valve. The goal is to clean the debris and build up in the gate area so **don't submerge the valve past the bolt holes**. Please be sure the gate is in the OPEN position. Fill the container with warm water so the gate area is submerged.
7. **LET THE VALVE SOAK FOR A COUPLE OF HOURS.**
8. Remove valve. Using a 12vdc battery touch the Red wire to the positive terminal (post) and the White wire to the negative post. The valve will close (or close depending on the gate position). Being careful not to get your fingers in the hole where the gate is, reverse the wires on the battery and the gate will again move open or closed. This procedure is called reverse polarity, White wire on + opens the valve and Red on the + closes the valve. The wire not on the + terminal is touched to the – post .
9. If the valve sounds like it is moving the gate back and forth without effort the valve body inside is clean of any residual waste.
10. Blow moisture out of valve body and when dry, spray inside valve body with silicon spray. Cycle Valve open and closed until it sounds free and is opening and closing in about 1 second..
11. If the valve still sounds sluggish redo steps 7 through 13.
12. It is now time to reinstall the valve in your boat. **Leave the valve in the closed position.**
13. Apply a liberal coat of the supplied special grease (Dow111) to each side of the gate.

- 14.** Place the seals on the flanges (**this is an important step – do not place seals on the valve itself**).
15. Separate the flanges far enough to slide the valve into position between the flanges without disturbing the seals.
16. Line up the four bolt holes and using the new bolts supplied; slip them into the through holes. Hand tighten the 4 SS bolts with the supplied SS lock nuts.
17. Using a 7/16th wrench, tighten the 4 bolts in a criss cross fashion, (i.e. upper left first, lower right next, upper right, then lower left) This is plastic, so don't over tighten. The valve should be snug and not in stress because the bolts are too tight. **Finger tight, no more than 1.5 turns with a wrench.**
- Reconnect the electrical plug.**
18. Cycle the valve to make sure it is working properly.

If you have any question during this process please do not hesitate to call our toll free number **(877) 787-8833** Thank you for purchasing our products. Without you and your kind words to others about our products or service, we could not be successful.