

# DRAIN MASTER Marine INSTALLATION INSTRUCTIONS

PLEASE, BEFORE YOU TRY IT YOUR WAY – TRY IT OUR WAY

## WHAT YOU WILL NEED TO DO THIS INSTALLATION:

- Basic mechanical/ electrical knowledge
- 7/16" wrench/socket
- Drain Master Part # 5197, includes:  
Valve, seals, nuts, bolts, Dow 111 lubricant & Instructions.
- 12 VDC power source (for switch connection)
- Electrical connectors are provided on the valve wires

## SPECIAL NOTES:

- Do not place fingers in running area of valve.
- Installation is simple and can be accomplished in a short time.
- Never install the Drain Master with the motor/gear/gate housing down. Must be installed vertically (see how to install picture below)
- PLEASE DO NOT OPERATE the Drain Master prior to installation on your boat. The gate has a sharp edge and the motor is powerful and very fast. YOU COULD GET HURT. You assume liability for your actions.
- Valve comes supplied with 1/8" Allen wrench to operate manual override – located on back of valve
- Do not use any other lubricant than the DOW 111 we have provided.
- Please follow installation instructions carefully.

## VALVE INSTALL INSTRUCTIONS

**Step 1:** Remove the four bolts holding the existing valve to plumbing.

**Step 2:** Separate plumbing enough to remove existing valve.

**Step 3:** Remove the 2 seals from pipe flanges or from existing valve.

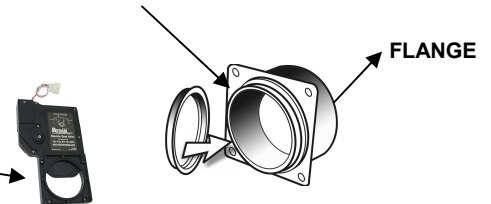
**Step 4:** Clean pipe flanges, check for cracks, replace flange if necessary. Remove caution card from gate area on new valve.

**Step 5:** Make sure valve is in the closed position before proceeding to next steps. (Valve is shipped with the gate closed)

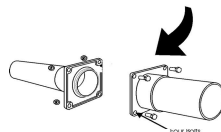
**Step 6:** Now you are ready to install the new valve. **IMPORTANT! Use the seals that came with your new valve.**

Note: Place the seals over the flange lip which is located on existing plumbing, DO NOT PUT SEALS ON VALVE \*\*\*\*\*  
**VERY IMPORTANT STEP\*\*\*\*\***

**Step 7:** Apply supplied lubricant (Dow 111) to both sides of gate.



**Step 8:** Separate pipe flanges and insert Drain Master **with gates closed** making sure the seals are in their correct position **on the flanges**. See Step 7. Rotate the valve to align the four bolt holes with the flange holes and insert the four new bolts and nuts. See picture below:



**Step 9:** Install the four bolts and hand tighten. Use a 7/16" socket and a torque wrench to tighten the nuts down evenly. **Torque from nuts side only**, 1/4 turn at a time, in a crisscross pattern. Progressively increase Torque to **10 Inch Lbs. Max. Permissible is 15 Inch Lbs.**, if required, to prevent leaks. Do not exceed - components are plastic and may stress and/or crack. As a generic guideline 1 turn beyond finger tight equates to approx 10 inch. Lbs and 1 1/2 turns approx. 15 Inch Lbs. – tightening beyond that risks stressing and /or cracking.

**Step 10:** Cycle valve to insure valve is opening and closing properly. At first opportunity with boat in the water, open valves to flood the ballast, close and check for leaks around the valves.

If you have questions or need help with an install, please call us toll free.

**DRAIN MASTER**  
**877-787-8833**

[www.drainmastermarine.com](http://www.drainmastermarine.com)

## NOTE: HOW TO INSTALL

