

INSTALLATION INSTRUCTIONS

IMPORTANT: Read all instructions prior to installation. The RID System is controlled using your existing irrigation controller and no ancillary equipment or wiring is necessary. We recommend watching installation videos available at: www.RidSystem.com

Step 1: Turn off the main water supply before beginning work. See Installation Diagram.

Step 2: Choose your location. The R.I.D. System (A) should be protected from physical damage or tampering by children on a level surface in a convenient location that is easily accessible and away from persistent sunlight. Select a location after the main line backflow prevention and manual master shutoff valve, after the sprinkler systems main solenoid/indexing valve (if present) and before any individual solenoid/indexing zone valves. See Installation Diagram. **Caution:** Be sure to install backflow prevention, as required by local code. **NOTE:** Electric valves can be installed in lieu of the 1/2" ball valves provided with the system.

Step 3: Assemble the manifold parts as shown in the installation diagram. Before assembly, set the manifold on a flat work surface in the vertical position with the flow arrow facing down as shown. **NOTE: ALWAYS USE A PIPE THREAD TAPE OR SEALANT ON THESE FITTINGS (NOT PROVIDED). ALL FITTINGS SHOULD BE SNUG BUT NOT OVER TIGHTENED.** 1.) Connect the three 1/2 inch nipples (C) to the manifold (B). 2.) Attach the three ball valves (D) to the nipples (C). 3.) Connect the 1/2 inch quick connect (E), the 1/4 inch quick connect (F) and the 1/2 inch drain elbow (G) to the ball valves (D). Make sure the 1/2 inch quick connect (E) is at the top, 1/4 inch quick connect (F) is in the middle and the drain elbow (G) is at the bottom of the manifold (B) as shown in the Installation Diagram.

Step 4: Once assembled, determine the desired installation location of the manifold. The manifold can be installed at almost any convenient location after the back flow device and can be positioned vertically or horizontally, above or below ground. **NOTE: It is very important for the drain elbow (G) to be installed below (or equal to) the bottom of the RID System tank (A) to ensure proper drainage.** Next, carefully measure the total length of the manifold (B) (approx. 9 3/4") and deduct 2 inches. The result (approx. 7 3/4") will give you the amount you will need to cut out of any existing PVC pipe and allow the manifold (B) to be glued in place. If your irrigation system uses material other than PVC or if you prefer an alternate (threaded) manifold installation, other approaches can be made by using appropriate fittings, just remember to account for such fittings before cutting the main irrigation line.

Step 5: Ensure that you have the proper back flow prevention in place as required by your local authority (we recommend an RP or PVB type back flow device). Connect the manifold (B) into the cut section of the irrigation piping using the chosen method. The fittings on the manifold (B) are 1-inch female slip. **NOTE:** If your irrigation system is 1-inch PVC, no additional fittings are necessary (unless using an alternate approach). Be sure to use approved cleaners, glues/PVC cements and fittings. If you are not sure what to use you should consult a qualified plumber or irrigation professional in your area. When using glue/PVC cement, always allow time for the glue to set before use as recommended by the manufacturer. **WE ARE NOT RESPONSIBLE FOR IMPROPER INSTALLATIONS OR USE OF MATERIALS AND/OR RESULTING DAMAGE – READ ALL MANUFACTURERS INSTRUCTIONS CAREFULLY PRIOR TO USE.** **NOTE:** Reducers, adapters, cleaners, glues, thread sealants and other fittings are not included and must be purchased separately.

Step 6: After installing the manifold and allowing time for the glue to set, test for leaks by turning off the 3 ball valves (D) on the manifold (B), then **SLOWLY** turn on the main supply or back flow valve. If leaks exist, repair and repeat the previous steps.

Step 7: Finally, connect the 1/2 inch and 1/4 inch tubing to the appropriate fittings on the RID System tank (A) and manifold (B) as shown in the installation diagram. Zip ties can be used to secure any loose tubing. **NOTE:** To ensure that the tank, tubing and quick connect fittings do not leak, we recommend putting the system through a "dry run". Follow the operation instructions but instead of using one of our organic solutions, fill the tank with water. This will ensure the system is leak free and prevent product waste.

CAUTION: Care must be taken insuring that anything placed into the RID System tank cannot flow into the water system. Although the system is equipped with built in air gap protection, an approved backflow device such as a, pressure vacuum breaker (PVB), or reduced pressure backflow (RP), *must* be installed upstream from the R.I.D. System as required by local laws. The RID System should always be isolated or shut off when not in use.

WARNING - DANGER: The R.I.D. System may operate under pressure not to exceed 75 PSI with flow rates between 6-25 GPM. If the irrigation system exceeds these requirements, a pressure regulating device **MUST BE INSTALLED.** In addition, we strongly recommend installing a pressure relief valve and/or a one way check valve for any system subject to water hammer or water spikes. Never operate the system unless it is in an enclosure, such as a valve box or protective shroud. **FAILURE TO FOLLOW THESE RECOMMENDATIONS CAN CAUSE SEVERE DAMAGE AND/OR INJURY.**

OPERATING INSTRUCTIONS

Only use the R.I.D. System with R.I.D. labeled pest & lawn products. Please watch the operation video on our website prior to use. Call or order online: **888-RID-SYSTEM** or www.RidSystem.com

Step 1: Turn the water supply shutoff or backflow device valve to the off or closed position.

Step 2: Once the main irrigation supply water is OFF or CLOSED, open the manifold valves and remove the lid on top of the RID System tank allowing water to drain from the bladder inside the tank (If the lid is too tight, a pipe wrench or similar tool may be needed to loosen). Please note that the 1/4 inch tubing does not have to be removed to take the lid off. All 3 manifold valves should be open while draining the tank.

Step 3: Fill the tank with the desired RID System product. The tank holds 2 gallons and **MUST BE COMPLETELY FILLED** before each use (**NOTE:** the bladder can be filled with water if 2 gallons of treatment solution is not available or desired). To do this, add the desired amount of RID System solution of your choice then **SLOWLY** turn on the ball valve with the 1/2 inch tubing connected to the bottom of the tank, allowing the bladder to carefully expand until the tank is full. **CAUTION:** This method can cause damage to the bladder if extreme care is not taken to ensure that the bladder does not expand outside of the tank opening (burst bladders are not covered under warranty). **FAILURE TO COMPLETELY FILL THE TANK CAN CREATE A HAZARDOUS CONDITION THAT COULD CAUSE SERIOUS DAMAGE OR INJURY.**

Step 4: Once the bladder has been emptied and the tank refilled, retighten the threaded lid so that the o-ring sets inside the lip of the tank and the lid sets flush against the tank opening. **CAUTION: HAND TIGHTEN ONLY - DO NOT OVER TIGHTEN THE LID!** Doing so may cause **SEVERE DAMAGE** and/or **INJURY** and void your warranty.

Step 5: With the lid securely in place, close the drain valve and **Slowly** turn the main water supply shutoff or backflow device valve to the "on" or "open" position. Check for any leaks. If a leak is noted around the lid, make sure the o-ring is properly set in the channel and the lid is adequately tightened. If leaks are noted around the tubing, ensure the tube is fully inserted into the quick connect fittings. If other leaks exist, re-apply plumbing tape or sealant and re-tighten as needed.

Step 6: Once the system is pressurized, the RID System is ready for use. Use your sprinkler system as normal **OR** run the sprinkler system manually to target specific zones **OR** set a separate program on your sprinkler controller (refer to manufacturers instructions) to run each zone for a specified time.

For Maximum Effectiveness Against Mosquitoes: We recommend running each zone for 1-2 minutes (or more) at dusk and dawn every day until the problem is under control.

Step 7: Your sprinkler system will run as normal even when the tank is emptied of solution (though the bladder will be full of water) but we recommend that you **always** isolate or shut off the RID System when not in use. This is done by ensuring that all 3 manifold ball valves are in the off or closed position. **NOTE:** A small amount of solution may remain in the tank after the bladder is full and is considered normal.

NOTE: The RID System is set to distribute products at a dilution ratio of 1 ounce per gallon (also the preferred dilution ratio of our organic solutions). Lower or higher ratio settings can be achieved by removing the small restrictor cap located inside the top threaded lid. Higher ratios (1-4 oz/gal.) are recommended for knockdown or initial treatments and lower ratios (1/4-1 oz/gal) are preferred for maintenance applications. Please contact your local dealer for more information.

FYI: The amount of product used and how long it will last depends on a number of factors: including dilution ratio, size of area treated, flow rate/GPM, weather conditions, etc. A single treatment can last up to 6 weeks or more. Larger sprinkler systems with multiple zones may require more frequent filling or might benefit from additional RID Systems.

CAUTION: All products should be applied in accordance with manufacturer's label instructions and/or local laws. Do not apply in high wind or extreme weather conditions.

WINTERIZING: Winterize the R.I.D. System by shutting off sprinkler system supply valve and opening drain valve on the manifold. Once drained, remove the tank and store in a warm dry place or insulate. To purchase an optional insulated cover, visit: www.RidSystem.com

NOTICE: SELLER MAKES NO WARRANTY, EXPRESSED OR IMPLIED CONCERNING THE USE OF THIS PRODUCT. THE USER ASSUMES ALL RISK OF USE WHEN IT IS CONTRARY TO INSTALLATION AND/OR LABEL INSTRUCTIONS, INDUSTRY REGULATIONS AND/OR LOCAL LAWS.

