



## STALL WATERERS

### *Operation Manual*



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#### PRODUCT WARNINGS-ELECTRICAL

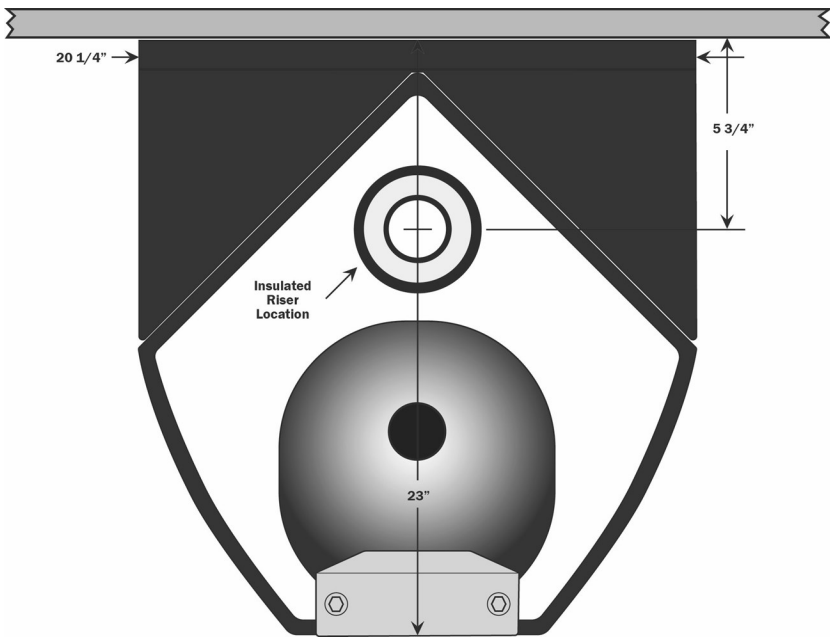
**To prevent electrical shock, disconnect the main power before servicing electrical components.**

**Be sure all electrical equipment is connected according to local and national electrical guidelines.**

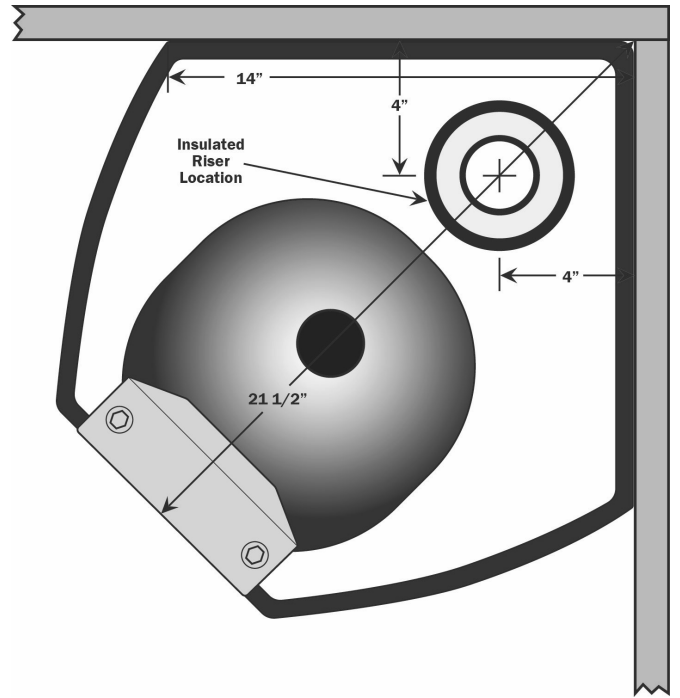
**Never stand in water when handling electrical equipment.**



The Water Supply Line servicing the 303 JUG Waterer must be buried at a sufficient depth below the frost line to prevent it from freezing. The size waterline of choice going from the buried horizontal underground waterline up through the Riser Tube into the 303 JUG is 1/2 inch in diameter. This is a commonly used size, and will allow enough room for the waterline to get from the riser tube up into the Service Tunnel of the JUG. Initially extend the incoming water line about 6 inches above the top of the 303 riser tube (for good measure). Then when ready for final placement of the 303 on the riser tube, cut the line down to about 2 inches above the top of the riser tube. For With Heat JUG Waterers, run the Electrical Line underground along with the Water Line, leaving the proper distance between the two lines, as recommended by your electrician and plumber. Contact your electrician for the proper sizing of electric line to be used to accommodate the 30 Watt 120 Volt Heater in a JUG Stall Waterer, as well as the string heater that is placed down the 303 riser tube.



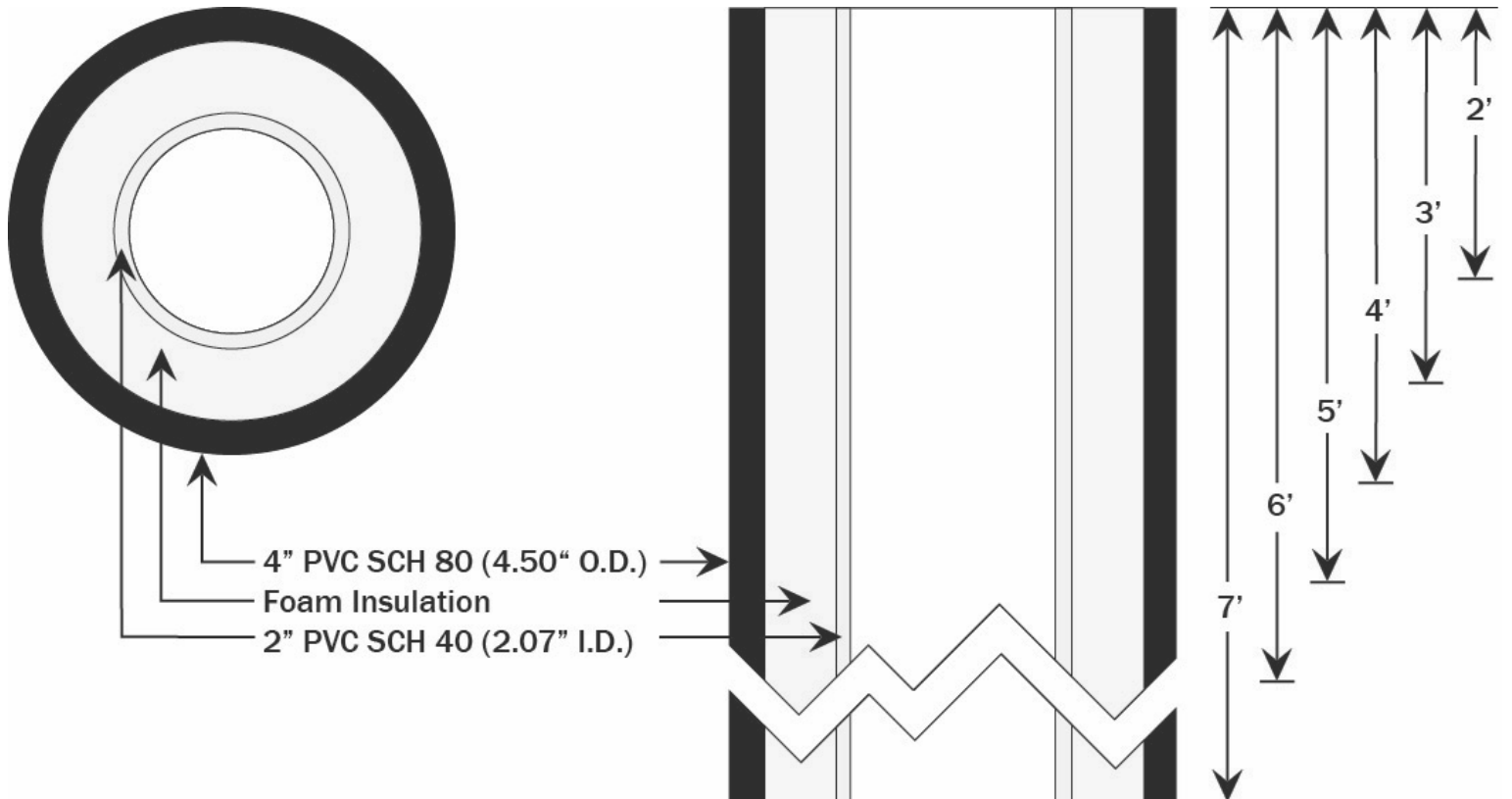
Flat Back Stall Waterer



Corner Mount Stall Waterer

### Overview of Riser Tube

Riser Tubes are available in 2,3,4,5,6 and 7 foot lengths.



## Installation of the 303 JUG Horse Stall Waterer when using 303 Riser Tubes

Insert the 1/2 inch X 1/2 inch Hose Barb/Elbow into the incoming 1/2 inch waterline and secure with a hose clamp. (If you are not using a standard 1/2 inch waterline to supply the 303 Jug, you will need to provide your own Barb/Elbow fitting components.) Using thread sealant, attach the enclosed Brass Nipple to the incoming Barb/Elbow. Attach the 1/2 inch end of the enclosed 303 flex hose to the incoming Brass Nipple and tighten securely. Gently ease the Flex Hose up into the Service Tunnel of the 303 as you slide the fountain on the riser tube. Attach the small fitting on the other end of the 303 Flex Hose to the threaded Brass Elbow coming out of the end of the 303 Shut Off Valve, and tighten securely. When the water line has been properly flushed and checked for leaks, and the electricity (if with heat) has been properly hooked up, and the 303 has been mounted to the wall, pump sealant between the outside of the riser tube and the 4 inch hole on the bottom of the 303 to create a good weather seal.

## Installation of the 303 JUG Horse Stall Waterer when not using 303 Riser Tubes

When a 303 is not mounted on top of a 303 Riser Tube it will be necessary for you to drill the hole in the JUG that will accommodate the incoming waterline. The proper size hole (the size of your incoming water line) can be drilled in the back area of the JUG. This is the area that is not part of the water reservoir. The water line can enter the JUG through the top or the bottom. The size of the incoming water line will then need to be adapted to the 1/2 inch 303 shut off valve that is mounted inside the Service Tunnel of the 303.

## Mounting the 303 JUG to the wall

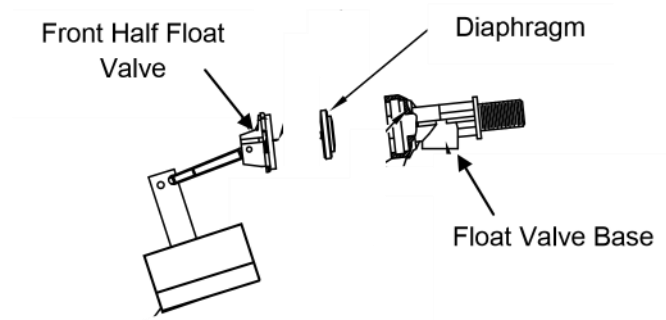
If you are mounting on top of a 303 Riser Tube, slide the JUG on top of the tube.

The Riser Tube will extend up into the JUG approximately 1 1/2 inches.

Mount the JUG to the wall using the 303 Stall Mounting Kit. There are mounting holes on the back of the waterer use all four on the top and the two on the bottom to secure the unit to the wall.

For mounting the Flat Back Stall Waterer to the wall you will need to drill six holes in the back wall of the Flat Back. Position the holes so they will be going into the most sturdy area of the wall. Use whatever length of lag bolts fit your specific application the best.





The Fluidmaster Float Valve used on the JUG Stall Waterer is among the most reliable, trouble free valves available today. Due to the precision qualities built into the valve, it is to your benefit to see that at the time of installation your water supply is clean. Please follow these guidelines to ensure proper installation.

1. Flush sufficient water through the water line before attaching the Float Valve.
2. Attach the Float Valve to the Water Line.
3. Turn on the water supply.
4. Let the reservoir fill a few times.
5. Turn off the water supply.
6. Remove the Front Half Float Valve. This is done by giving the tabs at the base of the gray arm a 1/4 turn counter clockwise and removing it from the base of the valve.
7. Remove the rubber Diaphragm from the stainless pin and wash all components.
8. Reinstall the Diaphragm on the stainless pin.
9. Reinstall the Front Half Float Valve by placing it back into the Float Valve Base, and turning it 1/4 turn clockwise.
10. Turn on the water supply.
11. We recommend that you do this procedure a few times. If you still realize dripping water you need to do it again.
12. At this time check all water fittings and connections for leaks.

By following these instructions you should realize the trouble free performance of the 303 JUG Stall Waterer that customers have come to expect over the years.

If at sometime you find the bowls over flowing:

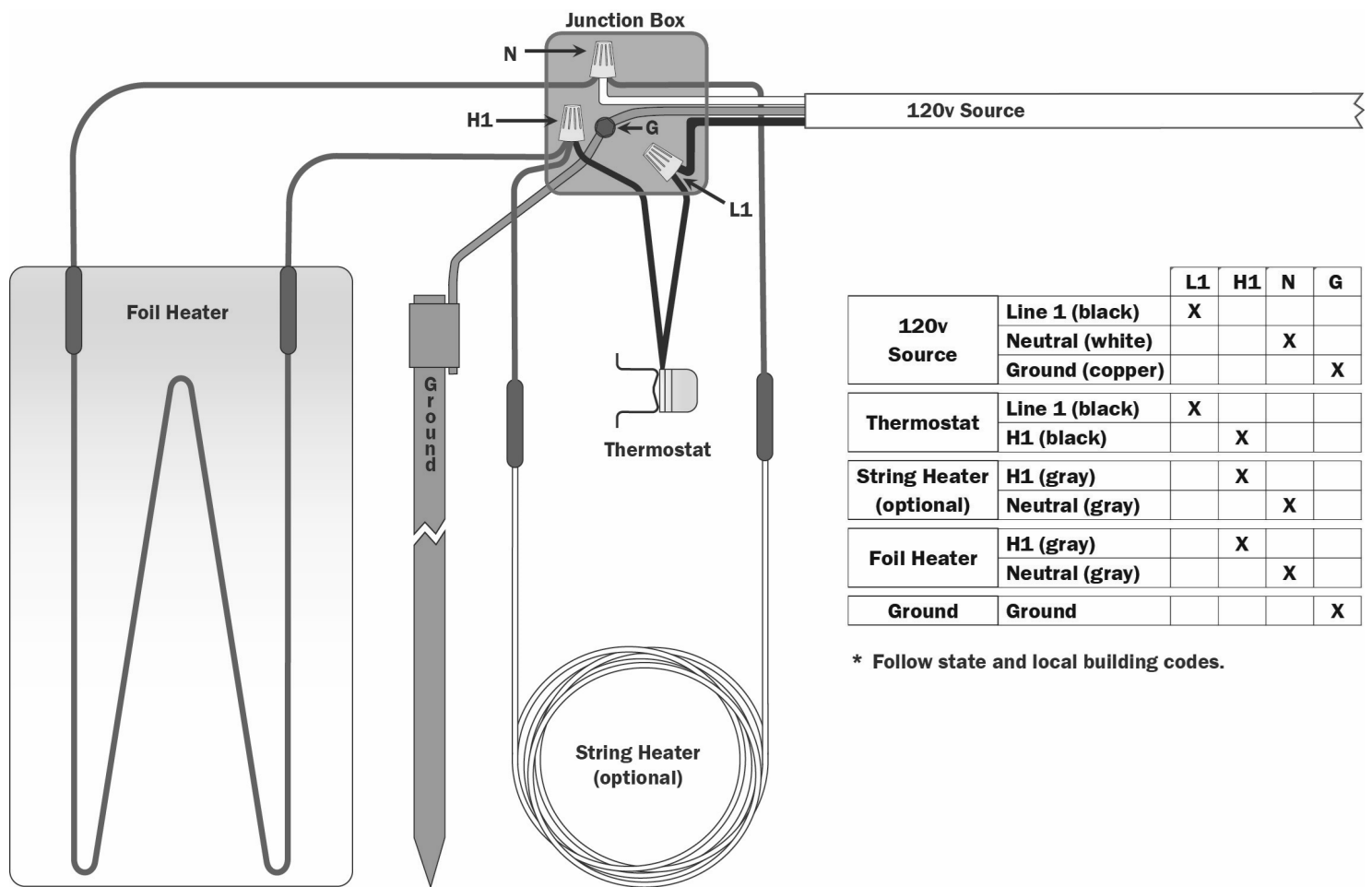
Clean and, or replace the diaphragm, as this will almost always be the cause of a JUG over flowing.

It is recommended that the diaphragm be replaced every year. Check all connections and fittings for leaks.

If the Float Valve is working properly but you are having trouble getting enough water in the Drinking Bowl check to see that the Plumbing (hoses, etc.) inside the Service Tunnel are not pulling the Float Valve down so that it can't be raised high enough by turning the External Float Adjustment. In this case —twist, turn or pull the plumbing so it is in a position of pushing up on the Float Valve instead of pulling it down.

## Valve Flow Rates

Static Pressure (PSI)	3	7	15	43	73
Flow Rate (gal/minute)	.5	1.5	2.5	5	6



When placing a JUG Stall Waterer on a Rise Tube we recommend adding in a string heater for additional heat around your water supply line. The length of the heater is determined by the length of the riser tube. Select the longest heater possible without letting the heater touch the ground at the bottom; of the tube.

Heaters are available in 4,5,6 and 8 foot lengths.

Remember you are working with electricity. Always disconnect the power before working with electrical wires.

Have wire connections covered with wire nuts at all times.



The JUG Feed Trap and Draw Tube design in the JUG Waterer will provide the cleanest water available to your animals. The JUG Feed Trap (where the Draw Tubes attach to the bottom of the lid) will catch most of the feed that falls off the animals face. Due to the swirling action created in the feed trap while drinking, most animals will self clean the JUG. If at some point you see some feed in the are you can simply remove it with your fingers giving it a swirl removing any debris. Remember that draining the 2 gallon reservoir is as easy as removing the external drain plug.