



Figure 3



Figure 4

- ▶ Place saddle valve assembly on pipe with rubber gasket directly over cleaned area. If hole has been drilled, extend piercing pin so it will line up with drilled hole. Tighten down assembly with Phillips Head screwdriver. Be sure to tighten both sides evenly. When rubber gasket is slightly compressed, **stop turning as it does not take much force to crush the pipe.**
- ▶ Turn valve handle clockwise. If penetrating copper pipe, some resistance will be felt. Turn handle all the way until it reaches the end. This is the "closed" position. Close any faucets that may have been left open.
- ▶ To connect 1/4" tubing to saddle valve, first slide compression nut onto tubing. Second, slide on white plastic compression sleeve, and third, push small brass insert into the tubing's end (Figure 3).
- ▶ Now insert all of that into the saddle valve body and use a 1/2" wrench to tighten the compression nut onto the saddle valve assembly (Figure 4). Do not over-tighten. **Note: The brass compression sleeve is only used for connecting brass tubing. For plastic tubing (what is supplied in this kit), the brass compression sleeve is obsolete!**
- ▶ Test the connection by putting end of tubing into a bucket, open any water shut offs that were closed for the installation, and turn the saddle valve handle counter-clockwise. Water should begin to run from the tubing end. Control water flow by turning the valve handle. Finally, close water off in order to attach tubing to fogger. Proceed to section on "Connecting Tubing and Installing Water Shut Off Valve."

▶ **If you see leaks they are likely:**

- ▶ Around rubber gasket. Adjust gasket position and verify clamp bolts are tightened on each side of the saddle.
- ▶ Where the valve screws into the top clamp. Carefully re-tighten with an adjustable wrench.

## Connecting Water to Your Fogger

### Instructions for connecting water to your humidifier by way of Saddle Valve, Gravity Feed or by Garden Hose

P.O Box 31281 - Greenville, SC 29608 USA  
 800-936-3502  
 info@hydrofogger.com

Figure 2

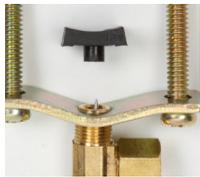
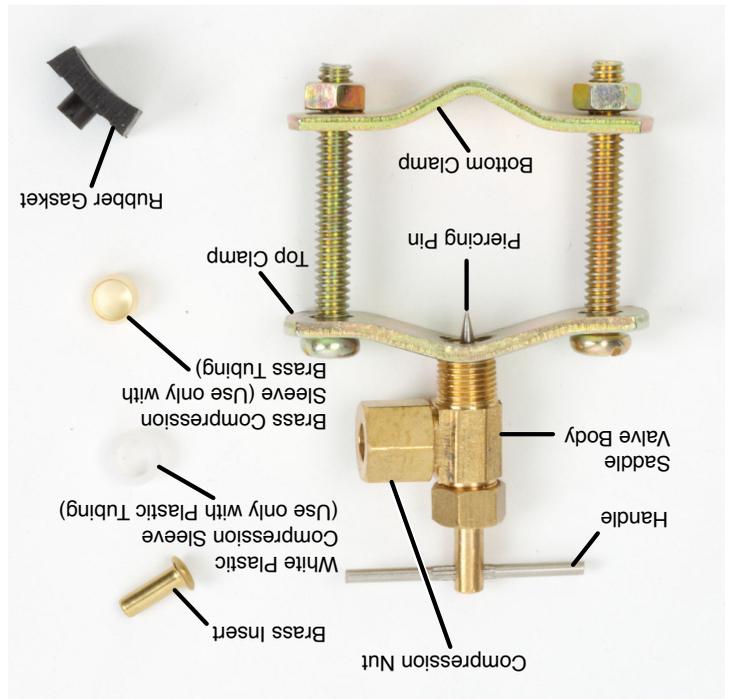


Figure 1



- ▶ side of gasket will rest snugly on pipe's surface (Figure 2).
  - ▶ Place rubber gasket over point of piercing pin. Make sure curved turning the valve handle counter-clockwise.
  - ▶ Back the piercing pin fully up inside the valve body. Do this by clamp (Figure 1).
  - ▶ Be certain the saddle valve body is firmly screwed into the top of the pipe.
  - ▶ Do not place the hole underneath or top of the pipe, or on the side. Do not place the hole either accommodate the saddle valve piercing pin. Place the hole either if installing on PVC or galvanized pipe, drill a 1/8" hole to sandpaper or a kitchen scrub pad. Wipe off any remaining debris. and should be removed from this small area. Use a piece of fine be placed. Paint, corrosion, and dirt can prevent a watertight seal Clean the section of pipe where the saddle valve rubber gasket will relieve water pressure.
  - ▶ located below the area where the saddle valve will be installed to Close the water shutoff to the selected pipe and open a faucet the saddle valve will have a tough time seating properly.
  - ▶ installed on both plastic (PVC) and galvanized pipe. Pipe should have an outside diameter of either 1/2" or 3/4". Anything smaller and saddle valve works best when installed on copper pipe, but can be Select a cold water pipe located in near proximity to the fogger. The
  - ▶ Drill with 1/8" bit (if installing on galvanized or plastic pipe)
  - ▶ 1/2" or adjustable wrench
  - ▶ Phillips head screwdriver
- Tools needed are:**
- Choose this connection when an existing cold water pipe will feed water to your fogger. Same method as connecting a refrigerator or icemaker to a water pipe.
- Making a Saddle Valve Connection:**



## Saddle Valve Parts

### Making a Gravity Feed Connection:

Choose this connection when using a reservoir, bucket or basin to gravity feed the humidifier. Keep in mind the reservoir should be elevated.

- ▶ Select a water reservoir tank that usually holds a minimum of five gallons. A big plastic container is ideal. A 5 gallon paint bucket will work, but since the sides are curved, a little silicone caulk may be needed to prevent leaks at the bulkhead fitting. When possible, have the bulkhead fitting installed against a flat edge.
- ▶ Use a  $\frac{3}{4}$ " boring bit to drill a hole towards the bottom of the reservoir. Ideally, the hole should be at the bottom where the side meets the bottom of the reservoir. Place bulkhead fitting through the hole, placing one black washer inside the reservoir, and one outside. Tighten the bulkhead fitting evenly on both sides, taking care not to over tighten.
- ▶ Connect the  $\frac{1}{4}$ " tubing between the reservoir (See Connecting Tubing and Installing Water Shut Off Valve) and the fogger. Elevate reservoir above fogger, fill with water, and gravity will take of the rest!
- ▶ Use silicone caulk around washers if leaks occur.

### Making a Garden Hose Connection:

Choose this connection when using a standard  $\frac{3}{4}$ " garden hose to feed the humidifier. This is very common in greenhouse and agricultural applications.

- ▶ Screw garden hose connector onto the male end of a standard  $\frac{3}{4}$ " garden hose. Turn until hand tight.
- ▶ Connect the  $\frac{1}{4}$ " tubing between the garden hose connector (See Connecting Tubing and Installing Water Shut Off Valve) and the fogger. (Figure 9)
- ▶ Slowly and gradually open the garden hose. **Start with minimal water pressure to feed the fogger.** It takes surprisingly little water pressure to fill the fogger's reservoir pan. Take care not to over pressurize as flooding may result.

### Connecting Tubing and Installing Water Shut Off Valve

The Water Shut Off Valve will allow you to turn water off to the humidifier when the fogger will be cleaned, moved or turned off.

- ▶ Make sure ends of the tubing are cut squarely and smoothly. (90 degree angles and no burrs or ragged edges).
- ▶ **For Foggers with BRASS CONNECTORS:**  
Push blue collar or sleeve in until it stops. Simultaneously insert tubing into the blue collar. **Insert all the way until the tubing tops/bottoms out.** Tubing should go in about  $\frac{1}{2}$ " -  $\frac{3}{4}$ ". Release collar and it will lock the tubing in place (Figure 5). Gently push/pull tubing to test connection. Monitor initially to make sure no leaks occur.
- ▶ **For Foggers with PLASTIC CONNECTORS:**  
Insert  $\frac{1}{4}$ " tubing into white collar hole. Insert all the way until the tubing stops/bottoms out. Tubing should go in about  $\frac{1}{2}$ " -  $\frac{3}{4}$ " and will be locked into place (Figure 5a) and into both connection holes of shut off valve (Figure 7). **Insert tubing all the way until it stops/bottoms out.** Tubing should go in about  $\frac{1}{2}$ " and be locked in place (Figure 8). Gently push/pull tubing to test connection. Monitor initially to make sure no leaks occur.

### To Install Water Shut Off Valve:

With no water in tubing, select a spot about 8-12 inches from the humidifiers (Figure 6). Cut tubing cleanly and squarely. Insert  $\frac{1}{4}$ " tubing into both connection holes of shut off valve (Figure 7). Insert tubing all the way until it stops / bottoms out. Tubing should go in about  $\frac{1}{2}$ " and be locked in place (Figure 8). Gently push / pull tubing to test connection. Monitor initially to make sure no leaks occur. Simply turn handle on valve to turn flow on and off.

### To Disconnect Tubing

- ▶ Ensure system is depressurized before removing tubing. Do this by shutting water off at its source and allowing tubing to drain into fogger's reservoir pan.
- ▶ Gently push in collar (either blue or white depending on connector) and simultaneously remove tubing. Tubing should slide out. When re-inserting, make sure that tubing is cut flat and smooth. It is often a good idea to re-cut a smooth edge when reinserting tubing. Know that each time tubing is removed and inserted, the chance of compromising the seal increases. Be sure to monitor the connection for any leaking that may occur.



Figure 5



Figure 5a



Figure 6



Figure 7



Figure 8



Figure 9

**Inspect all installations at least annually and replace parts as needed. Tubing not suitable for compressed air or vacuum applications.**