

Universal Valve 1105-40 Diffusion System is used to reduce turbulence in the underground tank during the fill process. Our Diffusion System dramatically reduces the mixing of tank bottom contaminants by allowing the product to exit the drop tube in a horizontal path. Our Diffusion System will also eliminate any large foreign object such as rags from entering the tank.

1. Measure height "A" from the top of the drop tube to the bottom of the tank shown in Figure 1. Then remove the drop tube.

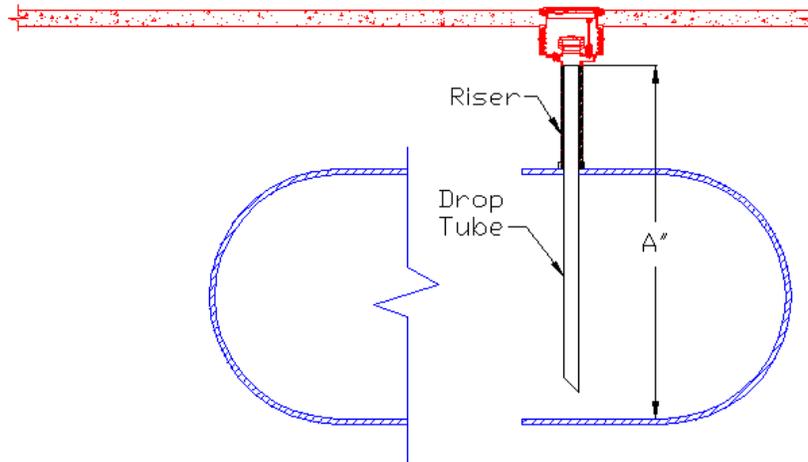


Figure 1

2. Subtract 14" from the dimension "A" that was previously measured.
3. On the Drop Tube, drill two holes that are 180° apart using a #10 drill at the (A-14") location at the bottom of the drop tube. The bottom of the drop tube is the end that is not flared. Figure 2 shows the location of the Thru Hole.

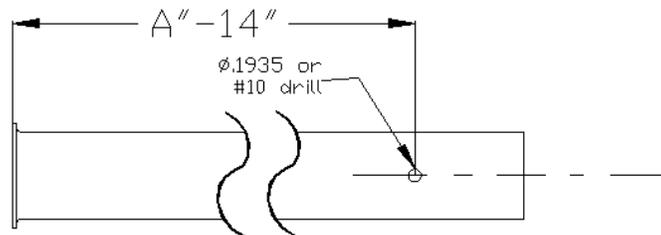


Figure 2

4. Insert the Diffuser at the bottom of the drop tube. It should be noted that the top of the Diffuser allows the installer to adjust the diameter to allow a tight fit by simply pull on the edge of the unit to expand or squeezing on the edge to reduce the diameter. Be sure to align the holes previously drilled with the vertical slot on the Diffuser as show in Figure 3.



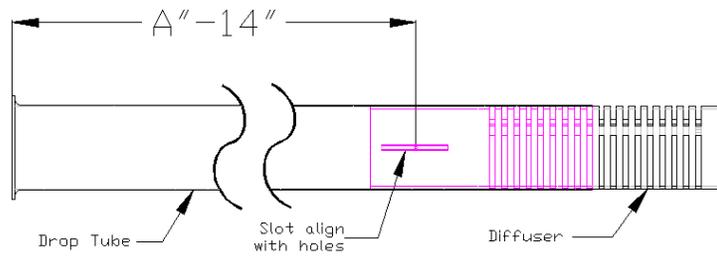


Figure 3

5. Insert the Rivets into the holes of the tube and through the slots of the Diffuser. Pop rivet are used to secure the Diffuser in place. The Diffuser allows a 1 ½" vertical movement up or down to allow for any measuring errors as shown in Figure 4.

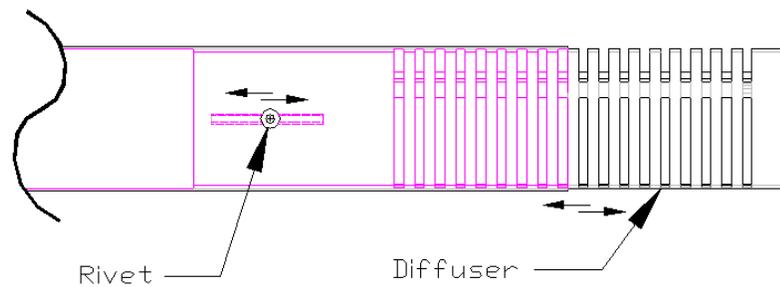


Figure 4

6. Install drop tube with Diffuser back in the tank. Use a Gauge stick to push the Diffuser to the bottom of the tank to ensure proper placement. Figure 5 shows the final installation.

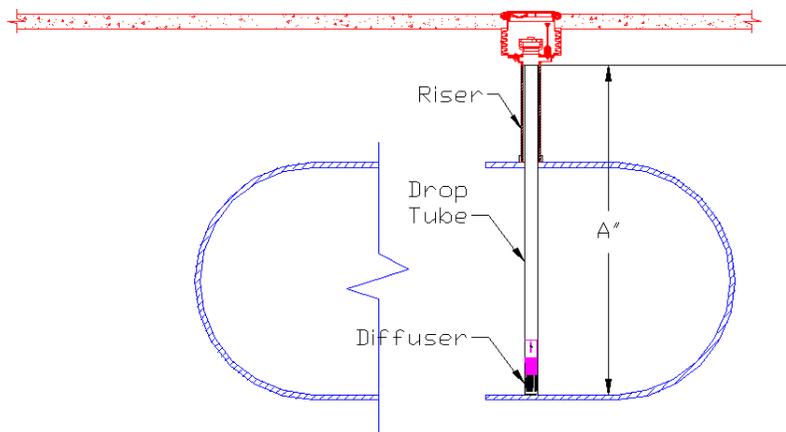


Figure 5

