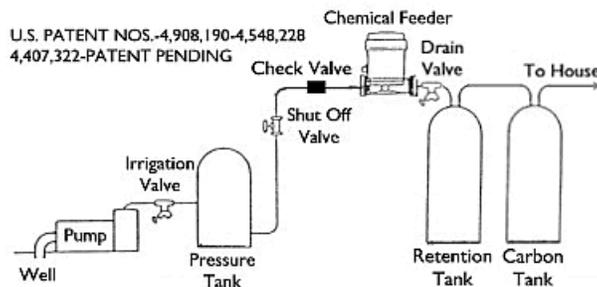


MODEL 400 CHEMICAL FEEDER

Instructions – Page 4

(Actual size of the **CHEMICAL FEEDER** - 10.5" high X 11.5" long Empty weight - 6.5 lbs.)
Maximum tested pressure is 80 lbs.



CAUTION: USE ONLY CALCIUM HYPOCHLORITE CHLORINE TABLETS FOR POTABLE WATER.

THEORY OF OPERATION

After filling the unit with chemical to no higher than the bottom of the adjustable cap or less and returning water flow, fluid will flow into the chemical container mixing with the chemical until the air trapped in the top of the unit is compressed to the same pressure as the line pressure. When the line pressure is reduced, compressed air in the air chamber will force fluid from the container down and up through the outside center tube and down the inside tube to the water line until pressure is equal or until the fluid level reaches the hole that is open in the outside tube. At that time, the compressed air will flow through the hole into the outside tube, down the inside tube and no more fluid will flow. This procedure will occur on each pump cycle. The outside tube has six (6) holes with three of them smaller.

The cap can be rotated to select either a large hole or a small hole in six different locations. During fluid flow, a small amount of fluid will flow through the hole selected thereby diluting the fluid flowing up through the outside tube. Most chemical solutions are heavier than water and the top of the fluid is not as heavily saturated as the bottom of the container. Selecting a small hole will increase the chemical concentration and selecting a lower hole increases the solution output. The unit can be used as a venturi operation for operations other than varying pressure. In this mode, the cap may be rotated so there is no hole through the outside tube or left with the hole through the outside tube to help dilute the fluid if needed. The chemical solution put out is controlled with the optional rate of feed valve on the outside of the unit.

WARNING: DO NOT MIX DIFFERENT TYPES OR BRANDS OF CHLORINE AN EXPLOSION CAN OCCUR.