

## CHARGING THE PRESSURE TANK

For those who have automatic pumping plants incorporating a pressure tank, it is suggested that the air-water ratio in the tank be $60 \%$ air and $40 \%$ water. This ratio permits the pump to operate automatically within the desirable pressure limits.

To obtain the above air-water ratio, the aircompressor should be started while the tank is empty and the air pressure raised to $60 \%$ of the irrigation system operating pressure. If the irrigation system operating pressure is 100 lbs. then the air pressure should be raised to $100 \times 0.60$, or 60 lbs ., should the operating system be 150 lbs . then the air pressure should be raised to $150 \times .060$, or 90 lbs . After the pressure tank is charged with air as stated above, the water pump can then be started and the water slowly allowed to enter the tank, when the tank becomes $40 \%$ full of water it will be found that the system operating pressure has been reached. In other words the original air volume in the tank has been compressed into $60 \%$ of its former volume and the pressure increases accordingly.

- Charles E. (Scotty) Stewart

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