



## Inertial Pump Operation

1. Tubing/Valve assembly is installed in well.  
Water level inside tubing rises to that in well.

2. A rapid upstroke closes the footvalve and lifts the water column inside the tubing a distance equal to the stroke.

3. At the end of the upstroke, the water column continues to rise due to its momentum. A further column of water is thus simultaneously drawn into the tube.

4. Pushing the tubing down immediately after the upstroke forces a further column of water into the tubing due to the inertia of the water column.

5. The cycle is repeated and water rises in pulses to discharge at the surface.

