## REVERSE OSMOSIS

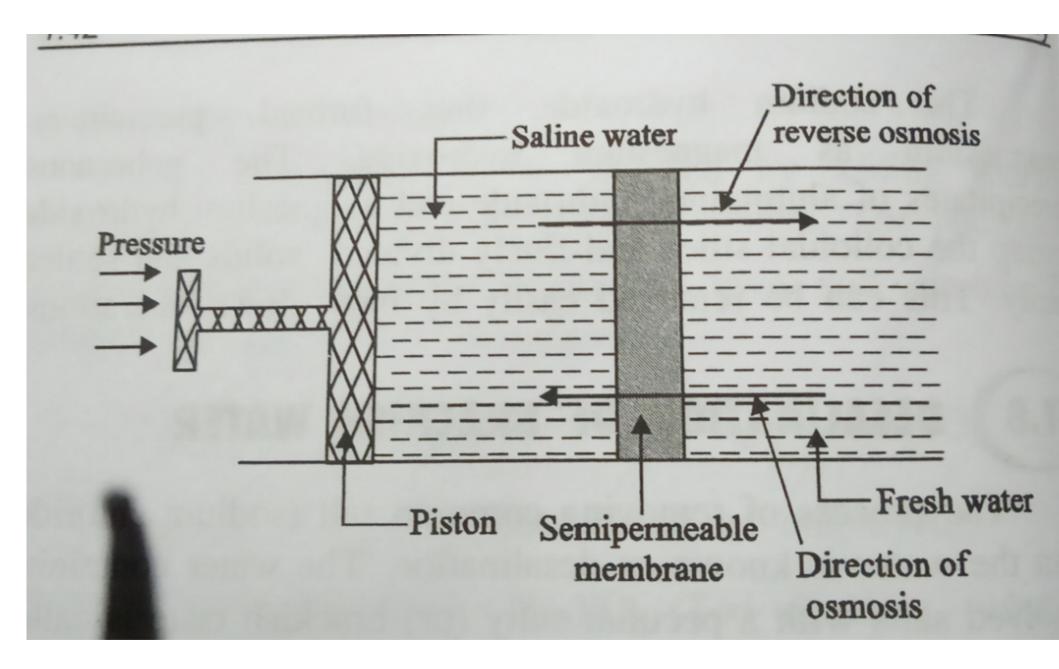
When two solution of different concentration are separated by semi - permeable membrane,

solvent flow from a region of lower concentration to higher concentration.

This process is called Osmosis.

The driving force of this phenomenon is called osmotic pressure.

If a hydrostatic pressure is applied on the higher concentration side. The solvent flow is reversed.i.e., solvent flows from higher concentration to lower concentration this process is called Reverse osmosis.



In this process, the pure water is separated from salt water.

This process is also known as super filteration.

The membranes used are cellulose acetate, cellulose butyrate, etc...,

## Advantages:-

- 1. The life time of the membrane is high and it can be replaced by few minutes.
- 2. It removes ionic as well as non-ionic colloidal impurities.
- 3. Due to low cost, this process is used for converting sea water into drinking water.