

ADVANTAGES OF PRESSURE MAINTAINING STATION

1. The basic expansion vessel works at ambient pressure, is independent of building height.
2. The system pressure is maintained with in ± 0.5 bar of the set pressure. The operating pressure could be set to 1 bar above the static head.

Whereas with conventional closed expansion tank the operating pressure varies from 1 bar to 4-5 bar above the static head, which necessitates higher PN rating requirement for all the piping, fittings, and equipments.

In this particular case, with static head of 6 bar, the operating pressure would be set at 7 bar and all the piping, fitting & equipments to be used could be of PN10 rating, resulting in substantially cost reduction. With normal closed expansion tank system the operating pressure shall vary between 7-11 bar thus necessitating the use of PN16 rated equipment.

3. The Pressure Maintaining Station required much smaller plant room space.
4. With Pressure Maintaining Station the Air Separator can be eliminated, again resulting in space reduction in the plant room.
5. It does not require a dedicated pressurization unit, it can accept water from any source, like water supply system, with supply pressure of above 1bar.