



Sight Tubes

Visual Indication of Tank Level in Solids and Liquids

Principle - Sight Tubes

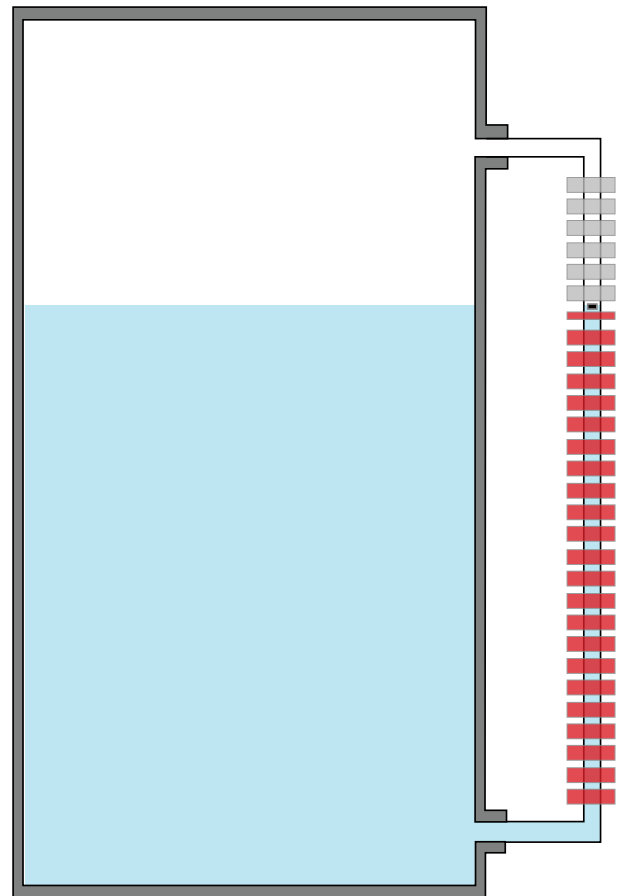
The classic method of viewing liquid level in a tank before any instrumentation was using sight tubes.

Sight tubes were glass tubes that were attached to the side of your tank at the top and bottom. Liquid would flow into the tube to the same level as the liquid inside the tank, allowing you to read the level off a scale printed on the glass.

However, sight tubes are considered an OH&S hazard and have been replaced with magnetic sight tubes, which protect staff by being far more robust. The principle is the same - there is a tube mounted to the side of the tank that your liquid stands in - but rather than glass, the tube is made from stainless steel and is completely opaque.

A magnetic float rides on top of your liquid in the shaft. As it moves up and down, the magnet causes individual elements in a long line of metal tags to 'flip' from the silver side, to the highly reflective red side.

This gives you extremely visible and very safe level indication without needing any form of power.



Advantages

- Works on all compatible liquids
- Additional magnetic switches or pressure transmitters can be added
- Very large, clear indication
- Unpowered

Disadvantages

- Does not work with solids
- Side-Mountable Only
- Requires 2 tapping points even on unpressurised vessels
- Must be custom made for individual applications and liquids