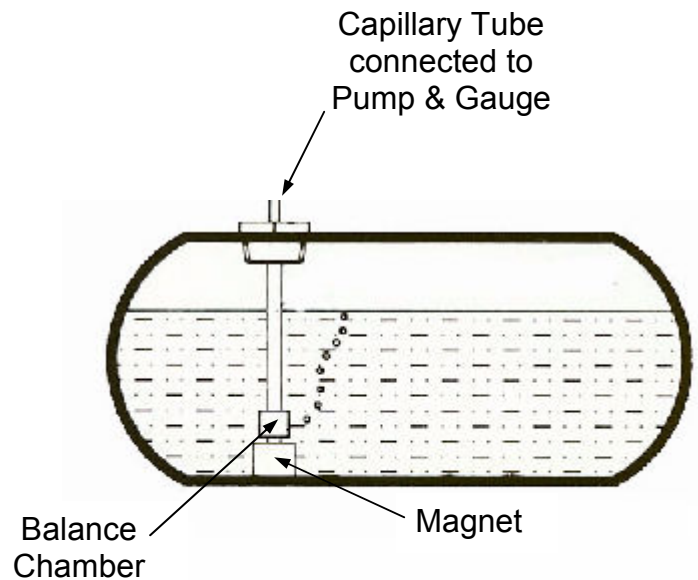


## HYDROSTATIC TANK CONTENTS GAUGE MANUALLY OPERATED SYSTEM



### OPERATION

The 28PU gauge uses the hydrostatic principle of proven reliability and simplicity, requiring no power supply. This method requires minimum installation time and gives important advantages in the safe measurement of volatile liquids. By operating a small hand pump, fixed at the bottom of the gauge, charges the system with air under pressure. The liquid is displaced from the balance chamber at the bottom of the tank, while excess air escapes via the tanks vent. The resulting pressure in the balance chamber is indicated by the gauge and is proportionate to the head of liquid in the tank. The gauge can be mounted at any position, and may be disconnected at any time without upsetting the calibration. Maintenance is not normally required, as there are no moving parts external to the gauge.

### CALIBRATION

Each gauge is individually calibrated and scaled to customer requirements for Rectangular, Cylindrical (Horizontal or Vertical) tanks in litre, gallon, kg, tonne etc.

### INSTALLATION

The 28PU contents gauge can be mounted in any convenient position up to 30m from the tank without affecting the reading. Installation is simple. Mount the gauge with fixing screws and insert the balance chamber through a 1" or 1 1/2" BSP tank boss on top of the tank allowing it to rest on the bottom, then tighten bush and capillary clamp. Connect the tube to the gauge, there is no need to empty the tank.

## **Balance Chambers**

BC1:- For tanks with 1 ½" bsp Tank Boss

Construction:- Brass with polyurethane tube 6mm O/D c/w magnet  
BC1 is available in any of the following materials:  
PVC (1), Copper (6), Stainless Steel (7)

Viscosity Limit:- 50 sec, redwood no.1 @ 16°

General uses:- Heating oils, paraffin or where liquid does not attack PVC or  
brass or mild steel.

BC2:- for tanks with 1" bsp Tank Boss

Construction:- As BC1 but with weight in place of magnet

General uses:- As BCI and non magnet tanks

BC3:- for 1" bsp Tank Boss Rigid

Construction:- BC3 is available in any of the following materials:  
PVC (1), Polypropylene (2), PVDF (3)  
Copper (6), Stainless Steel (7).