

# Hydrostatic Tank Contents Gauge Manually Operated System



**Two styles are available:**

**Model 28PU**

160mm 304 St St Case Model 28PU

**Model 28PPU**

180 x 180mm ABS case with polycarbonate window.

**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.

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## BC2 – Standard Balance Chamber

Construction: Brass with compression fitting for 6mm tubing

Also Available in: PVC (1) or Stainless Steel (7)

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

Requires a 1" bsp Tank Adaptor

BC2 Standard Brass balance chamber

BC2-1 PVC balance chamber



## BC1 – as BC2 but with Magnet

Construction: As BC2 but with attached magnet to stabilize the balance chamber in position when tank is being filled.

Requires a 1 ½" bsp Tank Adaptor

Magnet for Standard balance chamber

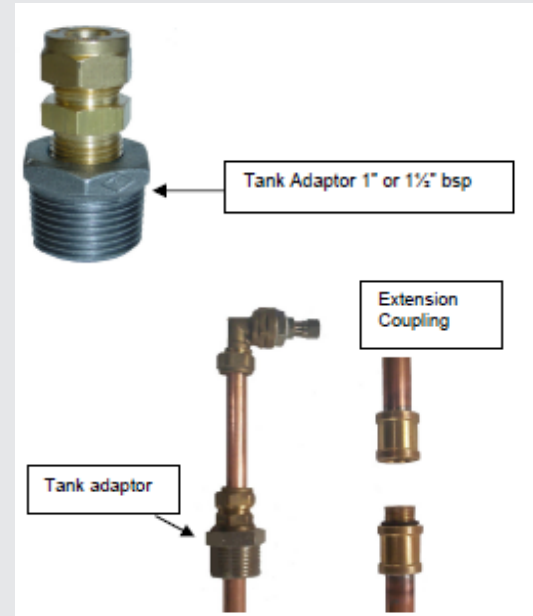


## BC3 – Rigid Balance Chambers

Construction: PVC (1), Copper (6) or Stainless Steel (7).

Requires a 1" bsp Tank Adaptor

Made to customer requirements



For use with - Models 28PU, 28PUE, 36, 37, 38, 39, 40 & 45