

Level Exercise 3

The aim of this exercise is to demonstrate the effect that adding salt to water has on the level measurement of a system.

Required items:-

Druke Portable Pressure Calibrator

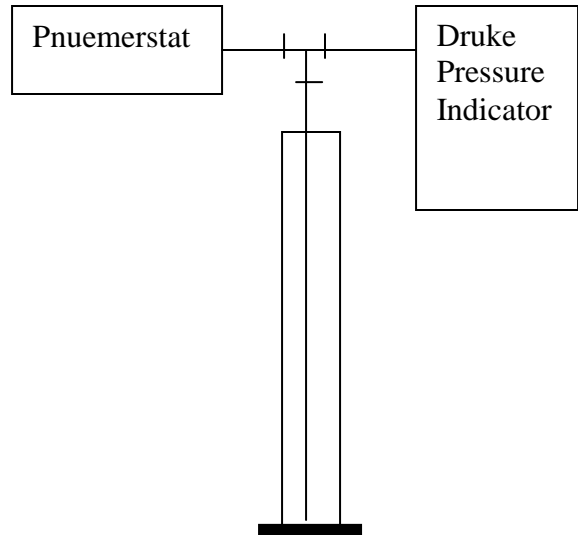
500 cc Measuring Cylinder

Stirring Rod

3 x $\frac{1}{4}$ " pipes

1 x $\frac{1}{4}$ " Tee piece

Pnuemerstat



Instructions

Connect the pipes as shown and secure the dip pipe into the measuring cylinder so that the bottom of the tube is just off the bottom of the cylinder.

Switch on the Druke and select the "H₂O range. Zero the Druke and the fill the measuring cylinder with approx 300 mm of water. Allow the pressure to settle and note down the reading.

Now slowly add salt to the cylinder giving it a stir with the rod to dissolve the salt and allow the pressure to stabilise again. Add approx 4 heaped teaspoons in total. Again allow the pressure to stabilise and make a note of the reading.

Why has it changed ?