

Barometers



 $\rho g H \Longrightarrow p_{atm} = p_v + \rho g H$





fluid 2

Manometers





g

https://www.doitpoms.ac.uk/tlplib/stiffnessof-rubber/balloon-experiment.php

$$p_{c} = p_{atm}$$

$$p_{B} = p_{c} + \rho_{1}gH_{BC}$$

$$p_{A} = p_{B} - \rho_{2}gH_{AB}$$

$$p_{A} = p_{atm} + \rho_{1}gH_{BC} - \rho_{2}gH_{AB}$$

$$p_{A} - p_{atm} = \rho_{1}gH_{BC} - \rho_{2}gH_{AB}$$



https://sauermanngroup.com/en-INT/measuringinstruments/manometers/liquid-column-manometers/mg-series