

# Flow Controller Equations

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Moment about the hinge pin for a float valve

$$(\Delta h_{FC} A_{float} \rho g) L_{float lever arm} = (\rho g \Delta h_{stock} A_{orifice}) L_{float lever arm}$$

Flow controller moment balance

ratio of change of water level in the stock tank to change of water level in the flow controller

$$\frac{\Delta h_{stock}}{\Delta h_{FCM}} = \frac{d_{float}^2}{d_{orifice}^2} \frac{L_{float lever arm}}{L_{float lever arm}}$$

Float valve attenuation