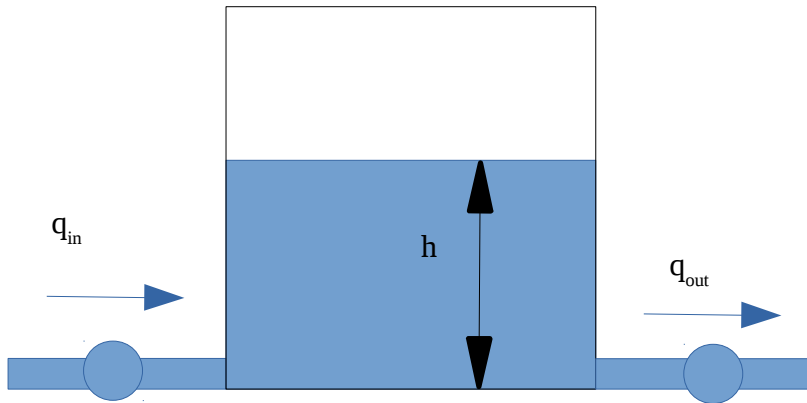


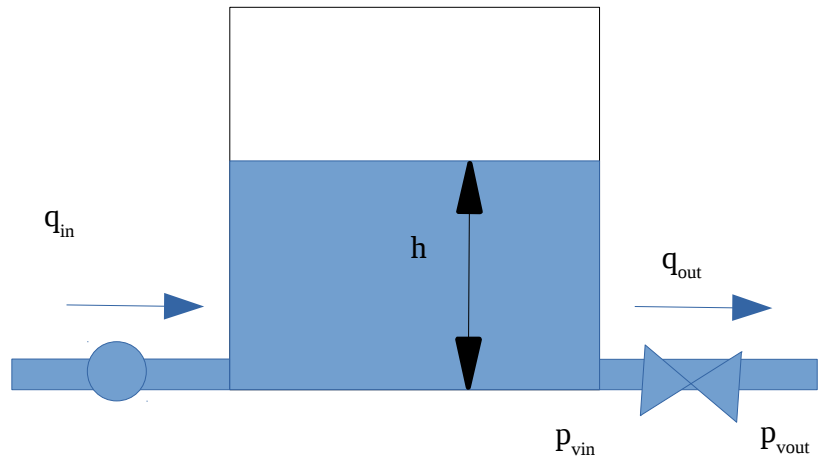
$$\frac{dh}{dt} = q_{in} - q_{out} \quad h = \int (q_{in} - q_{out}) dt$$

a



$$q_v = K_v l \sqrt{(p_{vin} - p_{vout})}$$

$$q_{out} = K_{vout} l_{out} \sqrt{(\rho g h - 0)}$$

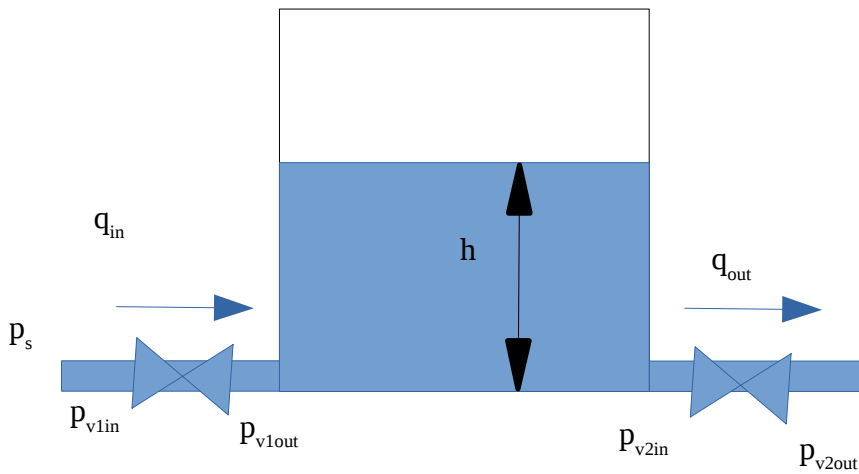


$$q_v = K_v l \sqrt{(p_{vin} - p_{vout})}$$

$$q_{out} = K_{vout} l_{out} \sqrt{(\rho g h - 0)}$$

$$q_{in} = K_{vin} l_{in} \sqrt{(p_s - \rho g h)}$$

$$h_s = \frac{p_s}{(\rho g)}$$



$$q_v = K_v l \sqrt{(p_{vin} - p_{vout})}$$

$$q_{out} = K_{vout} l_{out} \sqrt{(\rho g h - 0)}$$

$$q_{in} = K_{vin} l_{in} \sqrt{p_s}$$

$$h_s = \frac{p_s}{(\rho g)}$$

