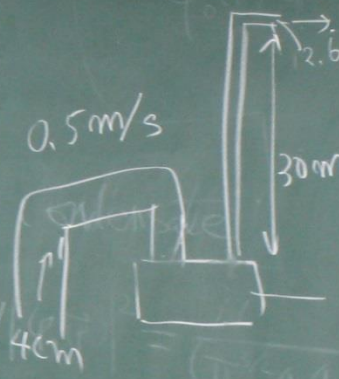
$$P + \frac{1}{2}\rho v^2 + \rho g y = \text{constant}$$

$$Av = Av'$$



$$4^2 \cdot 0.5 = (2.6)^2 \cdot ?$$

$$? = \frac{8}{6.76} = 1.2 \text{ m/s}$$

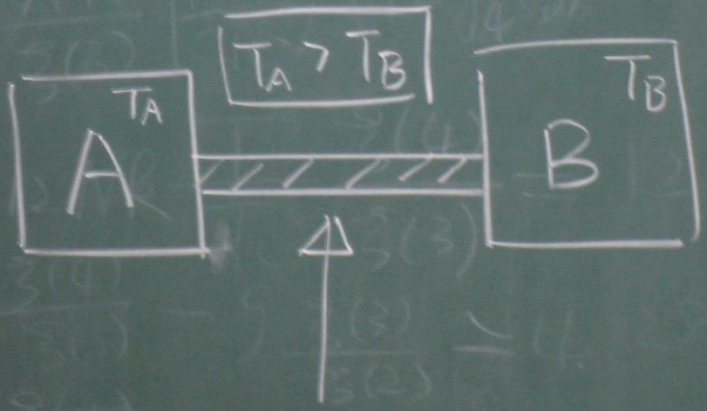
$$P' + \frac{1}{2}\rho v'^2 + \rho g y' = P + \frac{1}{2}\rho v^2 + \rho g y$$

$$P' = P + \frac{1}{2}\rho(v^2 - v'^2) + \rho g(y - y')$$

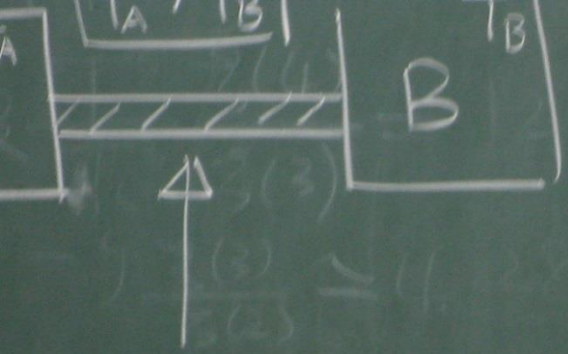
$$= 3.0\times10^5 \text{ N/m}^2 + \frac{1}{2}(1.0\times10^3 \text{ kg/m}^3)\left[(0.5)^2 - (1.2)^2\right] + (1.0\times10^3 \text{ kg/m}^3)(9.8 \text{ m/s}^2)(-30)$$

温度

熱 Heat



$T_A > T_{AB} > T_B$



$> T_{AB} > T_B$

$\Delta L = L \alpha \Delta T$

$\Delta V = V \gamma \Delta T \quad \gamma \approx 3\alpha$

$\Delta A = A \beta \Delta T \quad \beta \approx 2\alpha$

α (10^{-6}/°C)

Ice	5
Pb	29
Al	23
Steel	11
Concrete	12
glass	9
	3.2
	1.2
	0.5