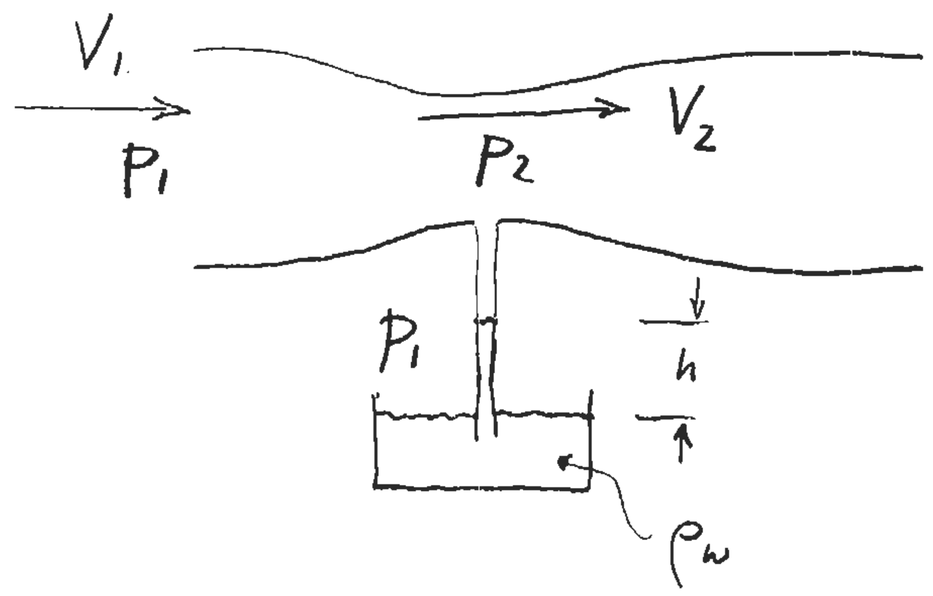
To get required column height, we must have

$$P_1 - P_2 = \rho_w g h$$



$\rho_w = 1000\ kg/m^3$
$g = 9.8\ m/s^2$
$h = 0.1\ m$
$\rightarrow P_1 - P_2 = 980\ Pa$

Using Bernoulli: $P_1 + \frac{1}{2}\rho V_1^2 = P_0 = P_2 + \frac{1}{2}\rho V_2^2$

$$\frac{1}{2}\rho V_2^2 - \frac{1}{2}\rho V_1^2 = P_1 - P_2 = 980\ Pa$$

Using Continuity: $V_2 = V_1 \frac{A_1}{A_2} = V_1 \frac{1}{0.7}$

$$\frac{1}{2}\rho V_1^2 \left[\frac{1}{0.7^2} - 1\right] = P_1 - P_2$$

$$V_1 = \left(\frac{2(P_1 - P_2)}{\rho\left[\frac{1}{0.7^2} - 1\right]}\right)^{1/2} = \frac{2 \cdot 980\ Pa}{1.226\ kg/m^3 \left[\frac{1}{0.7^2} - 1\right]}$$

$$V_1 = 39\ m/s = 87.5\ mph$$