

FLUID MECHANICS EXERCISES

EXAMPLE 1: A cylinder contains a fluid at a relative (gauge) pressure of 35 t/m². Express this pressure in terms of a head of, a) water ($\gamma_{\text{water}} = 1000 \text{ kg/m}^3$), b) mercury ($\gamma_{\text{Hg}} = 13.6 \text{ t/m}^3$).

What would be the absolute pressure in the cylinder if the atmospheric pressure is 10.33 t/m²?

SOLUTION:

$$\text{head, } h = p/\gamma,$$

$$\therefore \gamma = 1 \text{ t/m}^3,$$

$$\text{Equivalent head of water} = \frac{35}{1} = 35 \text{ m.}$$

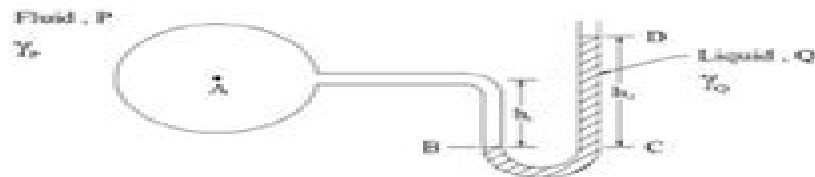
$$\text{b) For mercury } \gamma_{\text{Hg}} = 13.6 \text{ t/m}^3,$$

$$\text{Equivalent head of mercury} = \frac{35}{13.6} = 2.57 \text{ m.}$$

$$\text{Absolute pressure} = \text{Gage pressure} + \text{Atmospheric pressure}$$

$$p_{\text{abs}} = 35 + 10.33 = 45.33 \text{ t/m}^2$$

EXAMPLE 2: A U-tube manometer in Fig. is used to measure the gage pressure of a fluid P of specific weight $\gamma_P = 800 \text{ kg/m}^3$. If the specific weight of the liquid Q is $\gamma_Q = 13.6 \times 10^3 \text{ kg/m}^3$, what will be the gage pressure at A if, a) $h_1 = 0.5 \text{ m}$ and D is 0.9 m above DC, b) $h_1 = 0.1 \text{ m}$ and D is 0.2 m below DC?



SOLUTION:

$$\text{a) } 1 \quad \gamma_1 = 0.8 \text{ t/m}^3, \gamma_2 = 13.6 \text{ t/m}^3, (x_1 - x_2) = 0.5 \text{ m, } (x_2 - x_3) = 0.9 \text{ m.}$$

$$p_A + 0.8 \times 0.5 - 13.6 \times 0.9 = p_2 = 0$$

$$p_A = 13.6 \times 0.9 - 0.8 \times 0.5 = 11.84 \text{ t/m}^2$$

$$\text{b) Putting } [x_1 - x_2] = 0.1 \text{ m and } [x_2 - x_3] = -0.2 \text{ m into } \quad \text{gives,}$$

$$p_A + 0.8 \times 0.1 - 13.6 \times (-0.2) = p_2 = 0$$

$$p_A = -0.08 - 2.72 = -2.8 \text{ t/m}^2$$

The negative sign indicating that p_A is below atmospheric pressure. The absolute pressure at A is according to

$$p_{\text{abs}} = p_a + p_A = 10.33 - 2.8 = 7.53 \text{ t/m}^2$$

Fluid Mecanic Exercises Answers

Joseph H. Spurk



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