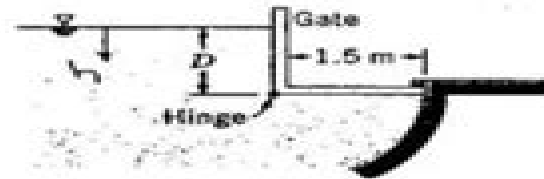


Given: Water rising on the left side of the gate causes it to open automatically. Neglect weight of gate.

Find: Depth D above the hinge at which the gate begins to open.



Solution:

Basic equations: $\frac{dp}{dy} = \rho g$; $\sum M_o = 0$

Computing equations: $F_c = p_c A$; $\bar{y} = y_c + \frac{I_{xc}}{A \bar{y}}$; $I_{xc} = \frac{b y^3}{12}$

Assumptions: (1) static liquid (2) $p = \text{constant}$
 (3) p acts at free surface and on outside of gate
 (4) no resisting moment in hinge

For an integrating $dp = \rho g dy$, we obtain $p = \rho g y$
 The free body diagram of the gate is as shown.



F_c is resultant of distributed force or uniform force
 F_c is resultant of distributed force or uniform force

Let width of gate be b

$$F_1 = p_1 A_1 = \rho g y_1 b y_1 = \frac{1}{2} \rho g b y_1^2 = \frac{1}{2} \rho g b y_1^2$$

$$F_2 = p_2 A_2 = \rho g y_2 b y_2 = \frac{1}{2} \rho g b y_2^2 = \frac{1}{2} \rho g b y_2^2$$

$$F_3 = p_3 A_3 = \rho g h_3 b = \rho g b h_3$$

Since the pressure is uniform over the horizontal surface, the force F_3 acts at the centroid of the surface, i.e. $\bar{y}_3 = \frac{1}{2} h_3$

For summing moments about the hinge

$$\sum M_o = 0 = F_1 \bar{y}_1 - F_2 (\bar{y}_2 - h_1) - F_3 (\bar{y}_3 - \frac{1}{2} h_3)$$

$$\therefore \frac{1}{2} \rho g b y_1^2 = 0$$

$$y = \sqrt{3} h = \sqrt{3} \cdot 1.5 \text{ m} = 2.60 \text{ m}$$

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