

Compute the velocity and Reynolds number to see if the flow is laminar. $\nu_{\text{air}} = 1 \times 10^{-4} \text{ ft}^2/\text{s}$. Neglect entrance losses to the pipe.

$$\blacksquare \quad p_1/\gamma + v_1^2/2g + z_1 = p_2/\gamma + v_2^2/2g + z_2 + h_L \quad p_2/62.4 + v_2^2/2g + 0 = 0 + v_2^2/2g + 0 + h_f \quad v_2^2/2g = v_2^2/2g$$

$$p_2/62.4 = h_f$$

$$Q = \frac{\pi \rho g d^4 h_f}{128 \mu L}$$

$$h_f = \frac{128 Q \mu L}{\pi \rho g d^4} = \frac{128 [(\pi d^2/4)(v_2)] \mu L}{\pi \rho g d^4} = \frac{32 v_2 \mu L}{g d^2} = \frac{(32)(v_2)(1 \times 10^{-4})(7000)}{(32.2)(3/12)^2} = 11.13 v_2$$

$$p_1/\gamma + v_1^2/2g + z_1 = p_2/\gamma + v_2^2/2g + z_2 + h_L \quad 0 + 0 + 10 = p_2/62.4 + v_2^2/[(2)(32.2)] + 0 + 0$$

$$p_2/62.4 = 10 - v_2^2/[(2)(32.2)]$$

Equating h_f from Eqs. (1) and (2),

$$p_2/62.4 = 11.13 v_2$$

Equating $p_2/62.4$ from Eqs. (3) and (4), $11.13 v_2 = 10 - v_2^2/[(2)(32.2)]$, $v_2^2 + 716.8 v_2 - 644 = 0$, $v_2 = 0.8973 \text{ ft/s}$; $Q = Av = [(\pi)(\frac{3}{12})^2/4](0.8973) = 0.0440 \text{ ft}^3/\text{s}$; $N_R = dv/\nu = (\frac{3}{12})(0.8973)/(1 \times 10^{-4}) = 2243$ (barely laminar).

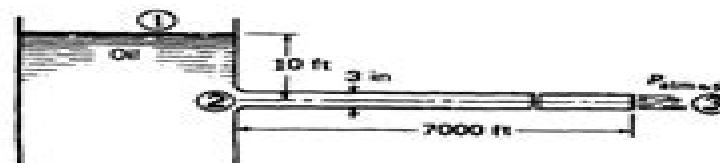


Fig. 9-5

9.17 If 140 L/s of water flows through the system shown in Fig. 9-6, calculate the total head loss between 2 and 3.

$$\blacksquare \quad p_1/\gamma + v_1^2/2g + z_1 = p_2/\gamma + v_2^2/2g + z_2 + h_L$$

$$v_2 = Q/A_2 = (140 \times 10^{-3})/[(\pi)(0.300)^2/4] = 1.981 \text{ m/s} \quad v_3 = Q/A_3 = (140 \times 10^{-3})/[(\pi)(0.150)^2/4] = 7.922 \text{ m/s}$$

$$p_2/9.79 + 1.981^2/[(2)(9.807)] + 0 = 0 + 7.922^2/[(2)(9.807)] + 15 + h_L \quad h_L = p_2/9.79 - 18.00$$

$$p_1/\gamma + v_1^2/2g + z_1 = p_2/\gamma + v_2^2/2g + z_2 + h_L \quad 0 + 0 + 30 = p_2/9.79 + 1.981^2/[(2)(9.807)] + 0 + 0$$

$$p_2/9.79 = 29.80 \text{ m} \quad h_L = 29.80 - 18.00 = 11.80 \text{ m}$$



Fig. 9-6

9.18 Determine the maximum velocity for laminar flow for (a) medium fuel oil at 60 °F ($\nu = 4.75 \times 10^{-5} \text{ ft}^2/\text{s}$) flowing through a 6-in pipe and (b) water at 60 °F flowing in the 6-in pipe.

$$\blacksquare \quad \text{For laminar flow, assume } N_R \approx 2000. \quad N_R = dv/\nu$$

(a) $2000 = (\frac{6}{12})(v)/(4.75 \times 10^{-5}) \quad v = 0.190 \text{ ft/s}$

(b) $2000 = (\frac{6}{12})(v)/(1.21 \times 10^{-5}) \quad v = 0.0484 \text{ ft/s}$

Solved Problems In Mechanics

Clifford Lane



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