

7A.1 Pressure rise in a sudden enlargement.

According to Eq. 7.6-4

$$p_2 - p_1 = \rho v_2^2 \left(\frac{1}{\beta} - 1 \right) \quad \text{in which } \beta = \frac{S_1}{S_2}$$

We compute β and v_2 thus:

$$\beta = \frac{S_1}{S_2} = \left(\frac{D_1}{D_2} \right)^2 = \left(\frac{5}{9} \right)^2 = 0.309$$

$$v_2 = \frac{Q}{S_2} = \frac{(450/60 \text{ gal/s})(0.13368 \text{ ft}^3/\text{gal})}{((\pi/4)(25/144) \text{ ft}^2)} = 7.35 \text{ ft/s}$$

Hence,

$$\begin{aligned} p_2 - p_1 &= \rho v_2^2 \left(\frac{1}{\beta} - 1 \right) \\ &= (63 \text{ lb}_m/\text{ft}^3)(7.35 \text{ ft/s})^2 \left(\frac{1}{0.309} - 1 \right) \\ &= 7610 \text{ poundals/ft}^2 = 1.64 \text{ psi} \end{aligned}$$

Legal Advanced Transport Phenomena Solution Manual

Léo Pomar



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