3.54 Figure 3.23 shows a closed tank that contains gasoline floating on water. Calculate the air pressure above the gasoline.

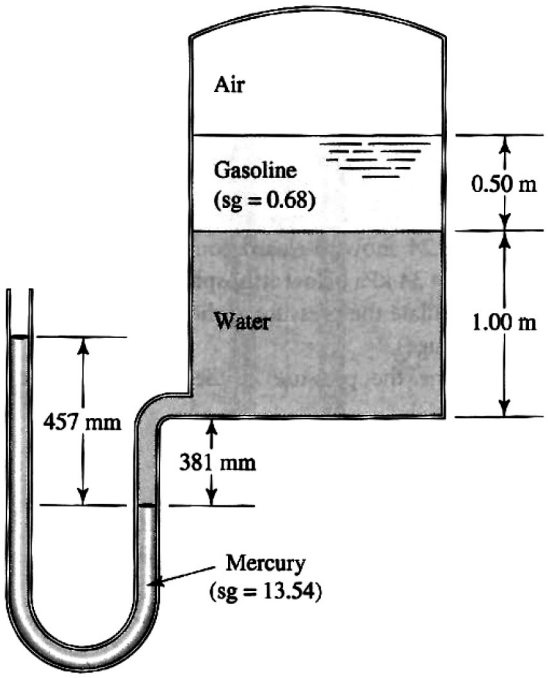

FIGURE 3.23 Problem 3.54.

3.69 Figure 3.33 shows a manometer being used to indicate the difference in pressure between two points in a pipe. Calculate $(p_A - p_B)$.

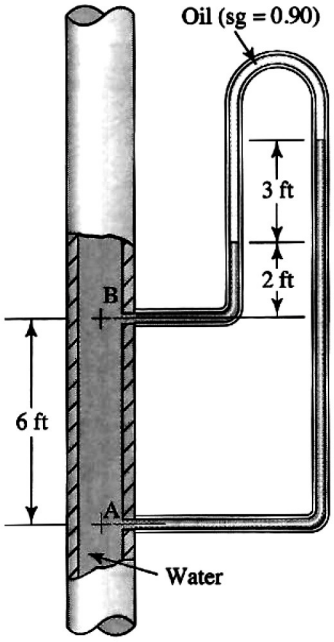

FIGURE 3.33 Problem 3.69.

6.77 Oil with a specific weight of 8.64 kN/m^3 flows from A to B through the special fabricated system shown in Fig. 6.31. Calculate the volume flow rate of oil.

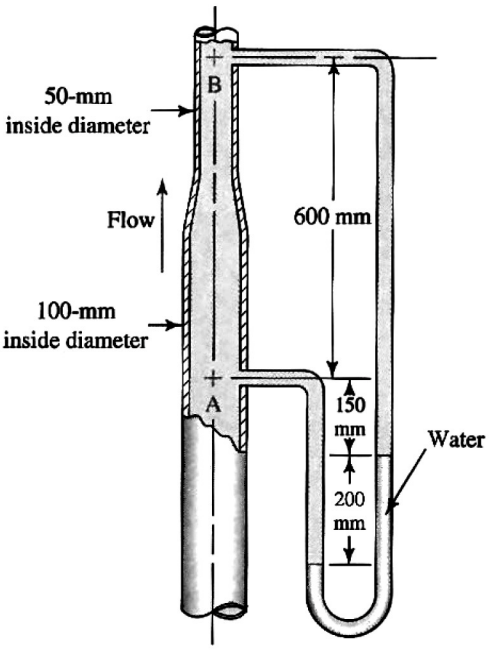

FIGURE 6.31

6.79 Oil with a specific gravity of 0.90 is flowing downward through the venturi meter shown in Fig. 6.33. If the manometer deflection h is 28 in, calculate the volume flow rate of oil.

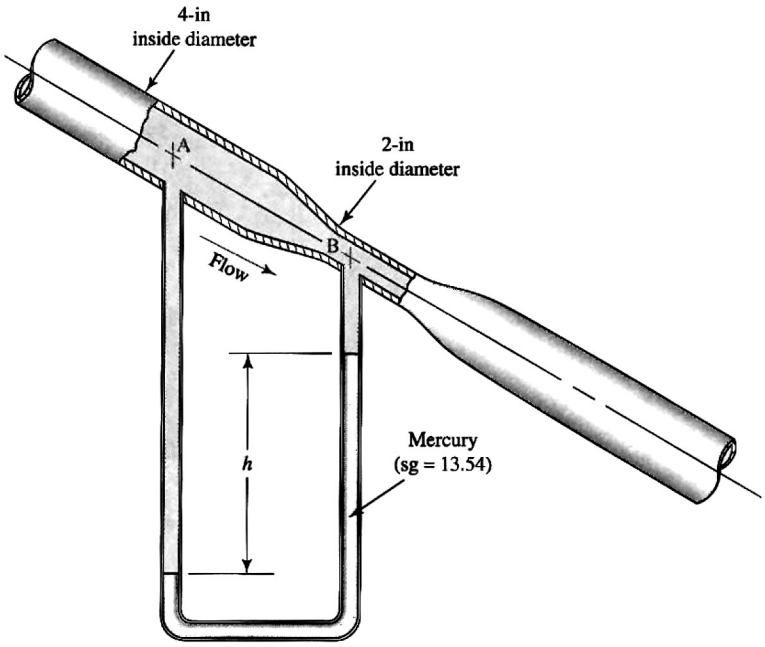

FIGURE 6.33