

Example 4

3.57 Water is siphoned from the tank shown in Fig. P3.57. The water barometer indicates a reading of 30.2 ft. Determine the maximum value of h allowed without cavitation occurring. Note that the pressure of the vapor in the closed end of the barometer equals the vapor pressure.

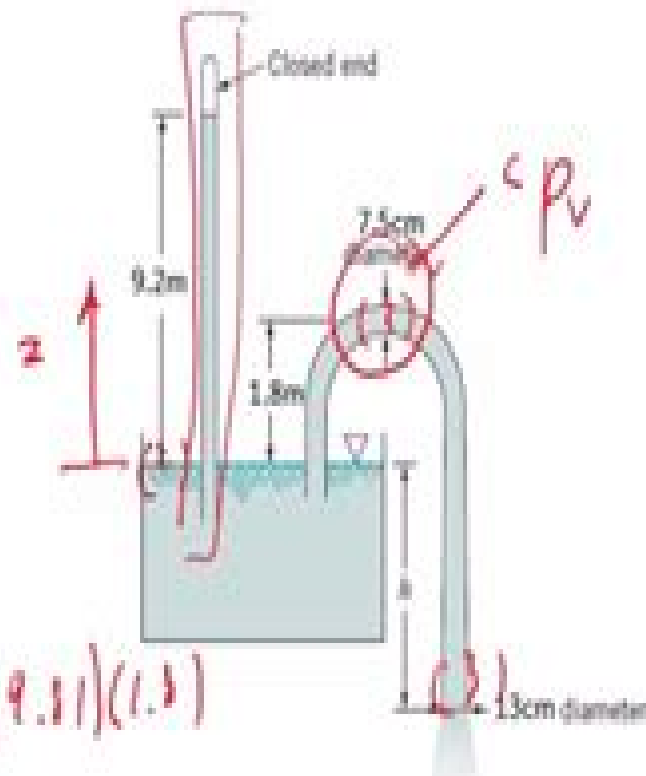
$$\begin{aligned}
 p_1 &= \gamma h + p_v \\
 &= (9.8k)(9.2) + p_v \\
 &= 90.16 \text{ kPa} + p_v
 \end{aligned}$$

$$\frac{p_1}{\rho} + \frac{V_1^2}{2} + g z_1 = \frac{p_2}{\rho} + \frac{V_2^2}{2} + g z_2$$

for 0 p_v

$$\frac{90.16 + p_v}{1000} = \frac{p_v}{1000} + \frac{V_2^2}{2} + (9.81)(1.3)$$

$$V_2 = \sqrt{2(90.16 - 9.81 \times 1.3)} = 12.042 \text{ m/s}$$



Fluid Mechanics Example Problems

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