

12.31 The centrifugal pump shown in Fig. P12.31 is not self-priming. That is, if the water is drained from the pump and pipe as shown in Fig. P12.31(a), the pump will not draw the water into the pump and start pumping when the pump is turned on. However, if the pump is primed (i.e., filled with water as in Fig. P12.31(b)), the pump does start pumping water when turned on. Explain this behavior.

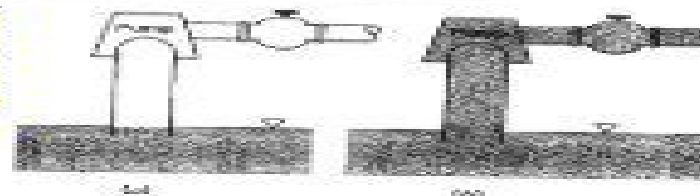


FIGURE P12.31

The head-flowrate characteristics for a typical centrifugal pump are shown in Fig. 12.11. The maximum head that the pump can add occurs when $Q=0$ (i.e., at start up for example). This head is in terms of the fluid in the pump. Neglecting losses and the velocity head (and cavitation effects) the pump can lift the fluid a height H equal to the head added by the pump. However, if the fluid in the pump is air (i.e., not primed) the head added is in terms of ft or m of air. For example, if $h_a = 30$ ft the pump could raise water that high if it is primed (filled with water). If the pump is not primed (filled with air) then the pump can only raise water up to a distance

$$h = 30 \text{ ft} \frac{\rho_{\text{air}}}{\rho_{\text{water}}} = 30 \text{ ft} \frac{6.0765 \frac{\text{lb}_m}{\text{ft}^3}}{(62.4 \frac{\text{lb}_m}{\text{ft}^3})} = 0.0368 \text{ ft}$$

Hence the water will not get into the pump.

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AW Rasmussen



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