

1.13 The efficiency η of a pump is defined as

$$\eta = \frac{Q\Delta p}{\text{Input Power}}$$

where Q is volume flow and Δp the pressure rise produced by the pump. What is η if $\Delta p = 35$ psi, $Q = 40$ L/s, and the input power is 16 horsepower?

Solution: The student should perhaps verify that $Q\Delta p$ has units of power, so that η is a dimensionless ratio. Then convert everything to consistent units, for example, BG:

$$\begin{aligned} \text{lb}_f & \quad Q = 40 \frac{\text{L}}{\text{s}} \quad \text{ft}^3 \\ & = 1.41 \frac{\text{ft}^3}{\text{s}} \\ \Delta p & = 35 \text{ psi} \\ & = 5040 \text{ lb}_f/\text{ft}^2 \\ \text{Power} & = 16(550) = 8800 \frac{\text{ft} \cdot \text{lb}_f}{\text{s}} \\ \eta & = \frac{(1.41 \text{ ft}^3/\text{s})(5040 \text{ lb}_f/\text{ft}^2)}{8800 \text{ ft} \cdot \text{lb}_f/\text{s}} \quad \text{or} \\ & = 0.81 \end{aligned}$$

81%

Ans.

Similarly, one could convert to SI units: $Q = 0.04 \text{ m}^3/\text{s}$, $\Delta p = 241300 \text{ Pa}$, and input power = $16(745.7) = 11930 \text{ W}$, thus $\eta = (0.04)(241300)/(11930) = 0.81$.

Ans.

1.14 The volume flow Q over a dam is proportional to dam width B and also varies with gravity g and excess water height H upstream, as shown in Fig. P1.14. What is the only possible dimensionally homogeneous relation for this flow rate?

Solution: So far we know that $Q = B \text{ fcn}(H, g)$. Write this in dimensional form:

$$\begin{aligned} \text{Fig. P1.14} \\ (Q) = \frac{\text{L}^3}{\text{T}} & = (B) (f(H, g)) = (L) (f(H, g)), \\ \text{or: } (f(H, g)) & = \frac{\text{L}^2}{\text{T}} \end{aligned}$$

So the function $\text{fcn}(H, g)$ must provide dimensions of (L^2/T) , but only g contains time. Therefore g must enter in the form $g^{1/2}$ to accomplish this. The relation is now

$$Q = B g^{1/2} \text{fcn}(H) \quad \text{or} \quad (\text{L}^3/\text{T}) = (L)(\text{L}^{1/2}/\text{T})(\text{fcn}(H)) \quad \text{or} \quad (\text{fcn}(H)) = (\text{L}^{3/2})$$

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