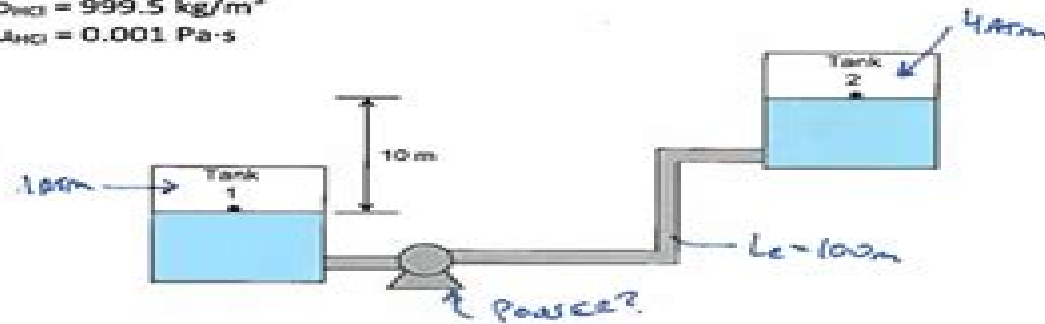


1. A dilute hydrochloric acid solution is to be pumped from a Mixing Tank 1 to a Reactor Tank 2. What power must be delivered by the pump assuming 100% efficiency. SHOW ALL WORK.

- The top surface of the Reactor Tank 2 is 10 m above the Mixing Tank 1.
- The pressure in Mixing Tank 1 is $P_1 = 1 \text{ atm}$
- The pressure in Reactor Tank 2 is $P_2 = 4 \text{ atm}$
- The piping is 4 in. nominal size diameter schedule 40. ($D_{\text{inner}} = 0.102 \text{ m}$)
- In the pipes, the hydrochloric acid solution flows at:
 - A velocity of 0.7 m/s
 - A volumetric flow rate of $5.672 \times 10^{-3} \text{ m}^3/\text{s}$
- Assume smooth pipe.
- The effective length, L_e , of all piping plus fittings, valves, contractions and expansions is 100 m .
- $\rho_{\text{HCl}} = 999.5 \text{ kg/m}^3$
- $\mu_{\text{HCl}} = 0.001 \text{ Pa}\cdot\text{s}$



START WITH MEB

$$\frac{u_1^2}{2} + gz_1 + \frac{P_1}{\rho} = \frac{u_2^2}{2} + gz_2 + \frac{P_2}{\rho} + W + F$$

$$u_1 \approx 0 \quad u_2 \approx 0$$

$$W = \frac{P_1 - P_2}{\rho} + \underbrace{g(z_1 - z_2)}_{\text{EASY}} - F$$

FIND $F = 2 f_F u^2 \left(\frac{L}{D} \right)$, NEED f_F AND D

$\uparrow$
 NEED $Re \frac{1}{2}$ MAYBE $\frac{E}{D}$

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