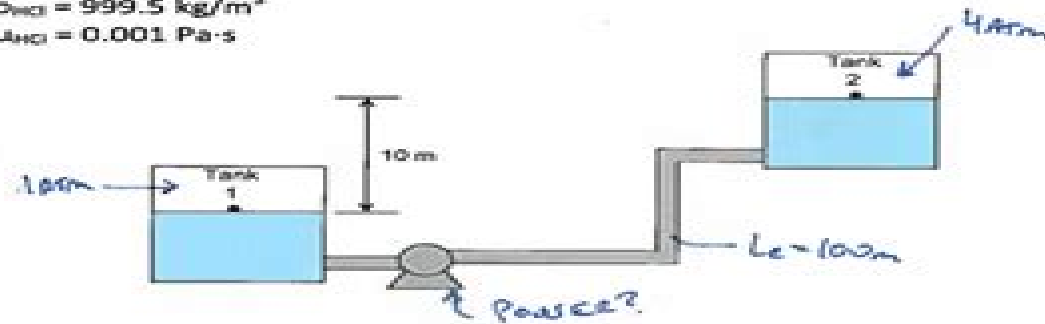


1. A dilute hydrochloric acid solution is to be pumped from a Mixing Tank 1 to a Reactor Tank 2. What power must be delivered by the pump assuming 100% efficiency. SHOW ALL WORK.

- 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 & MAYBE $\frac{E}{D}$

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1. Understanding the eBook Mechanics 1 Exam Solutions
 - The Rise of Digital Reading Mechanics 1 Exam Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics 1 Exam Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanics 1 Exam Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics 1 Exam Solutions
 - Personalized Recommendations
 - Mechanics 1 Exam Solutions User Reviews and Ratings
 - Mechanics 1 Exam Solutions and Bestseller Lists
5. Accessing Mechanics 1 Exam Solutions Free and Paid eBooks
 - Mechanics 1 Exam Solutions Public Domain eBooks
 - Mechanics 1 Exam Solutions eBook Subscription Services
 - Mechanics 1 Exam Solutions Budget-Friendly Options

6. Navigating Mechanics 1 Exam Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanics 1 Exam Solutions Compatibility with Devices
 - Mechanics 1 Exam Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics 1 Exam Solutions
 - Highlighting and Note-Taking Mechanics 1 Exam Solutions
 - Interactive Elements Mechanics 1 Exam Solutions
8. Staying Engaged with Mechanics 1 Exam Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics 1 Exam Solutions
9. Balancing eBooks and Physical Books Mechanics 1 Exam Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics 1 Exam Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanics 1 Exam Solutions
 - Setting Reading Goals Mechanics 1 Exam Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanics 1 Exam Solutions
 - Fact-Checking eBook Content of Mechanics 1 Exam Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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