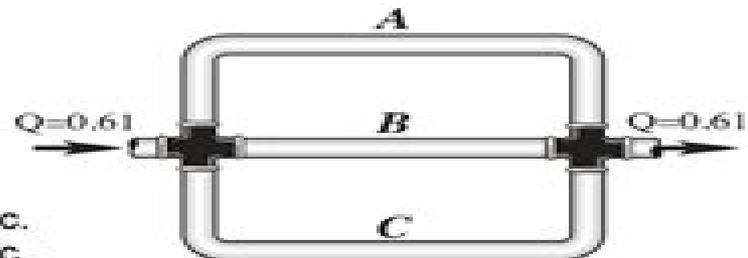


PROBLEM 2-4:

Three pipes A, B and C are connected in parallel. If the combined discharged of the 3 pipes is equal to $0.61 \text{ m}^3/\text{s}$, and assuming they have equal values of friction factor "f", compute the following using the tabulated data shown:

PIPELINE	LENGTH	DIAM.
A	600 m.	150 m.
B	480 m.	200 m.
C	750 m.	100 m.



- ① Compute the rate of flow of pipeline A in li/sec.
- ② Compute the rate of flow of pipeline B in li/sec.
- ③ Compute the rate of flow of pipeline C in li/sec.

Solution:

- ① *Rate of flow of pipeline A:*

$$hf_A = hf_B = hf_C$$

$$\frac{0.0826 f L_A Q_A^2}{(D_A)^5} = \frac{0.0826 f L_B Q_B^2}{(D_B)^5}$$

$$\frac{600 Q_A^2}{(0.15)^5} = \frac{480 Q_B^2}{(0.2)^5}$$

$$Q_A = 0.436 Q_B$$

$$Q_B = 2.295 Q_A$$

$$\frac{600 Q_A^2}{(0.15)^5} = \frac{750 Q_C^2}{(0.10)^5}$$

$$Q_A = 3.08 Q_C$$

$$Q_C = 0.325 Q_A$$

$$Q_A + Q_B + Q_C = 0.61$$

$$Q_A + 2.295 Q_A + 0.325 Q_A = 0.61$$

$$Q_A = 0.17 \text{ m}^3/\text{s} = \mathbf{170 \text{ liters/sec.}}$$

- ② *Rate of flow of pipeline B:*

$$Q_B = 2.295 Q_A$$

$$Q_B = 2.295(0.17)$$

$$Q_B = 0.39 \text{ m}^3/\text{s}$$

$$Q_B = \mathbf{390 \text{ liters/sec.}}$$

- ③ *Rate of flow of pipeline C:*

$$Q_C = 0.325 Q_A$$

$$Q_C = 0.325 (0.17)$$

$$Q_C = 0.05 \text{ m}^3/\text{s} = \mathbf{50 \text{ liters/sec.}}$$

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Tobias Bleicker



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Table of Contents Hydraulics 1 Questions With Answers

1. Understanding the eBook Hydraulics 1 Questions With Answers
 - The Rise of Digital Reading Hydraulics 1 Questions With Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Hydraulics 1 Questions With Answers
 - 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 Hydraulics 1 Questions With Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hydraulics 1 Questions With Answers
 - Personalized Recommendations

- Hydraulics 1 Questions With Answers User Reviews and Ratings
- Hydraulics 1 Questions With Answers and Bestseller Lists
- 5. Accessing Hydraulics 1 Questions With Answers Free and Paid eBooks
 - Hydraulics 1 Questions With Answers Public Domain eBooks
 - Hydraulics 1 Questions With Answers eBook Subscription Services
 - Hydraulics 1 Questions With Answers Budget-Friendly Options
- 6. Navigating Hydraulics 1 Questions With Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Hydraulics 1 Questions With Answers Compatibility with Devices
 - Hydraulics 1 Questions With Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hydraulics 1 Questions With Answers
 - Highlighting and Note-Taking Hydraulics 1 Questions With Answers
 - Interactive Elements Hydraulics 1 Questions With Answers
- 8. Staying Engaged with Hydraulics 1 Questions With Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hydraulics 1 Questions With Answers
- 9. Balancing eBooks and Physical Books Hydraulics 1 Questions With Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hydraulics 1 Questions With Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hydraulics 1 Questions With Answers
 - Setting Reading Goals Hydraulics 1 Questions With Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hydraulics 1 Questions With Answers
 - Fact-Checking eBook Content of Hydraulics 1 Questions With Answers

- 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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