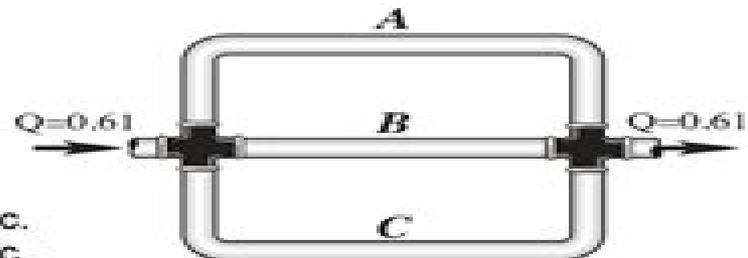


PROBLEM 2-4:

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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