

Fluid Mechanics Problems and Solutions

Problem 1: Venturi Meter Flow Measurement

Given:

- Diameter at section 1 (D_1) = 0.15 m
- Diameter at section 2 (D_2) = 0.10 m
- Pressure at section 1 (P_1) = 200 kPa
- Pressure at section 2 (P_2) = 150 kPa
- Density of water (ρ) = 1000 kg/m³
- Discharge coefficient (C_d) = 0.98

Find: The flow rate through the Venturi meter.

Solution:

Step 1: Use Bernoulli's equation between sections 1 and 2:

$$P_1 + (1/2) * \rho * v_1^2 = P_2 + (1/2) * \rho * v_2^2$$

Rearrange to get: $v_1^2 - v_2^2 = (2 * (P_1 - P_2)) / \rho$

Since velocity at section 1 is smaller, we approximate $v_1 = 0$.

$$\text{Thus: } v_2 = \sqrt{(2 * (P_1 - P_2)) / \rho}$$

Step 2: Use the Continuity Equation to relate the velocities:

$$A_1 * v_1 = A_2 * v_2 \rightarrow v_2 = (A_1 / A_2) * v_1$$

Step 3: Substitute and solve for v_1 and v_2 .

Finally, use $Q = A_1 * v_1$ to calculate the flow rate Q .

Problem 2: Orifice Plate Flow Measurement

Given:

- Diameter of the orifice (D_o) = 0.05 m
- Pressure difference across the orifice (ΔP) = 20 kPa
- Discharge coefficient (C_d) = 0.62
- Fluid density (ρ) = 1000 kg/m³

Find: The flow rate Q through the orifice.

Solution:

Step 1: Use the orifice flow rate formula:

$$Q = C_d * A_o * \sqrt{(2 * \Delta P) / \rho}$$

Where A_o is the area of the orifice, $A_o = \pi * (D_o)^2 / 4$

Step 2: Calculate the area of the orifice:

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**Bruce R. Munson, Donald F.
Young, Theodore H. Okiishi**



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