

September 27, 2013

NAME

Fluids-ID

Quiz 4. The specific gravity of the manometer fluid shown in the Figure is 1.07. Determine the flow rate Q if viscous and compressibility effects are negligible and the flowing fluid is water.

- $\gamma = 9.80 \text{ kN/m}^3$ for water
- Bernoulli equation:

$$\frac{p_1}{\gamma} + \frac{V_1^2}{2g} + z_1 = \frac{p_2}{\gamma} + \frac{V_2^2}{2g} + z_2$$

Note: Attendance (+2 points), Format (+1 Points)

