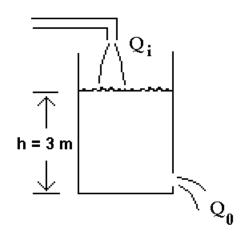
TOPIC

Fluids – Section X – Question 5

QUESTION

Consider the water storage tank shown below. Q_i and Q_0 are the volumetric flow rates at the inlet and outlet, respectively and *h* is the liquid level height in the tank. The orifice at the bottom of the tank is sharp edged and has a diameter of 2 cm. The inlet flow rate Q_i required to maintain a constant liquid level of 3 m is (in m³/s) most nearly is

- (A) 0.0015
- (B) 0.0024
- (C) 0.0058
- (D) 0.0096



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