

TOPIC

Fluids – Section X – Question 10

QUESTION

It is desired to transport 1 kg/s of a viscous liquid ($\mu = 0.01 \text{ kg/m s}$, $\rho = 950 \text{ kg/m}^3$) from one location to another through a round pipe. To not mechanically degrade the fluid, it is desirable to maintain the flow as laminar. In order not to exceed a Reynolds number of 2000, the minimum pipe diameter (m) is most nearly

- (A) 0.020
- (B) 0.064
- (C) 0.24
- (D) 2.2

CONTRIBUTOR

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