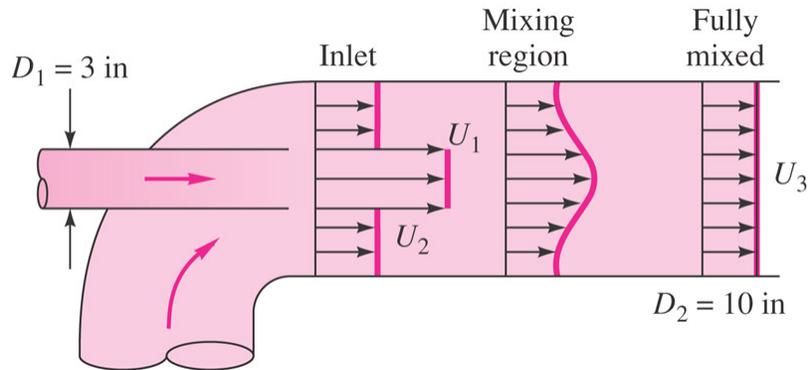


October 9, 2015

NAME

Fluids-ID

Quiz 6. A jet pump injects water at $U_1 = 40$ m/s through a 3-in-pipe and entrains a secondary flow of water $U_2 = 3$ m/s in the annular region around the small pipe. The two flows become fully mixed downstream, where U_3 is approximately constant. For steady incompressible flow, compute U_3 in m/s.



Note: Attendance (+2 points), format (+1 point)