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Solution : The equation
of continuity : $A_1 v_1 = A_2 v_2$. $8 v_1 = (2)(2) 8$
 $v_1 = 4$. $v_1 = 4 / 8 = 0.5$

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m/s. 9. If the diameter of the larger pipe is 2 times the diameter of smaller pipe, what is the speed of fluid at the smaller pipe. Known : Diameter of the larger pipe (d_1) = 2. Radius of the larger pipe (r_1) = $\frac{1}{2} d_1 = \frac{1}{2} (2) = 1$

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particularly in fluid
dynamics, a self-similar
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independent variables are
dependent variables are
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practical problems,
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