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Point For A System And Pump. 1 Governing Equations Figure 1 Shows A Single Pipe flow System. For Steady flow Between Station 1 And Station 2 Mass Conservation (continuity) Requires $\dot{m}_1 = \dot{m}_2$ Or $\rho_1 A_1 V_1 = \rho_2 A_2 V_2$ (1) Where \dot{m} Is The Mass flow Rate, ρ Is The fluid Density, A Is The Cross-section Area, And V Is The Average Velocity. 16th, 2024

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Non-Circular Pipe Friction - Pipe Flow Software

Friction Factor = 0.014 (plotted From Moody Chart) $H_f = F (L / D_h) \times (v^2 / 2g) = 0.014 \times (10 / 0.4) \times (2.7782 / (2 \times 9.81)) = 0.1377$ M Head Where: H_f = Frictional Head Loss (m) F = Friction Factor L = Length Of Pipe Work (m) D_h = Hydraulic

Diameter (m) V = Velocity Of Fluid (m/s) G = Acceleration Due To Gravity (m/s^2) 6th, 2024

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