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 where: hf = head loss (m) f = friction factor
 L = length of pipe work (m) d = inner diameter of pipe work (m) v = velocity of fluid (m/s) g = acceleration due to gravity (m/s²) or:
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 In a cylindrical pipe of uniform diameter D , flowing full, the pressure loss due to viscous effects Δp is proportional to length L and can be characterized by the Darcy-Weisbach equation: $\Delta p L = f D \cdot \rho \cdot v^2 D$,

$$\frac{\Delta p L}{\rho v^2 D} = f$$

$p\{L\}=f_{\mathrm{D}} \cdot \left\{ \frac{\rho v^2 L}{D} \right\}$, Darcy-Weisbach equation - Wikipedia
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