



PIPE FITTING FRICTION CALCULATION

The friction loss for fittings depends on a K factor which can be found in many sources such as the Crane's Hydraulic data book or the Hydraulic Institute Engineering data book, the charts which it represents are in Figures 1 and 2.

The fitting friction ΔH_{fit} can be calculated based on the following formula where K is a factor based on the type of fitting, v is the velocity in feet/second, g is the acceleration due to gravity (32.17 ft/s^2).

$$\Delta H_{fit} = K \cdot \frac{v^3}{2g \cdot 1.48 \cdot 10^{-10}}$$

For example a 2" NPS cast screwed elbow has a K factor of 0.85 according to Figure 1 and using a velocity of 10 ft/s (this is determined from the flow rate). The fitting friction loss will be:

$$\Delta H_{fit} = K \cdot \frac{v^3}{2g \cdot 1.48 \cdot 10^{-10}} = 0.85 \cdot \frac{10^3}{2 \times 32.17 \cdot 10^{-10}} = 1.3$$

Pipe Fitting Friction Calculation Can Be Calculated Based

C Cleary



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