



## 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 form in Figures 1 and 2.

The fitting friction  $\Delta H_{fit}$  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 ( $32.17 \text{ ft/s}^2$ ).

$$\Delta H_{fit} (\text{ft}) (\text{head}) = K \frac{v^2 (ft^2/s^2)}{2g (ft/s^2)}$$

For example a 2" iron 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:

$$\Delta H_{fit} (\text{ft}) (\text{head}) = 0.85 \frac{(10)^2}{2 \times 32.17} = 1.3$$

# Pipe Fitting Friction Calculation Can Be Calculated Based

**Annelies Wilder-Smith**



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