

K values for pipe fittings pdf

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Table K coefficient for calculation of pressure drop ΔP , where K_L is called the loss coefficient. K_L for some common fittings are given below. Covering both rectangular and circular K coefficient for additional friction loss due to pipe and fittings. K_L for some common fittings are given below. It is more accurate than the Equivalent Length method, as it can be used if exit has a screen, use Fitting to calculate screen resistance. Exit, Abrupt, Round and Rectangular (Idelchik et al., Diagram) Hood Shape: Round, degrees C o Hood Shape: Square or Rectangular, degrees C =, where K_L is called the loss coefficient. Typical values of K_L for various fittings are given below. Select the appropriate K value for such and select D and f for Schedule pipe from the table below where K is the pipe diameter in feet. The values below are only valid in TURBULENT FLOW. Usually, the values depend upon the nominal pipe diameter, the Reynolds number, and the manner in which the valve is installed (screwed or flanged). Manufacturers' data should be used wherever possible. For branching flows in Tees, K Polyethylene L Polyethylene - Rural M Aluminium N Rubber Hose O Concrete Friction Loss for Viscous Liquids Lay Flat Hose Friction Chart Example: Determine L (friction loss in pipe fittings in terms of equivalent length in feet of straight pipe). FITTING LOSS COEFFICIENTS This material provides coefficients for various fittings and loss-inducing components of a duct system. Usually, the values depend upon the nominal pipe diameter, the The results of the study show that the K -value of long elbows is smallest for larger pipe fittings and increases as the pipe fitting size reases. Pipe Size Inches Sch The K -value, Resistance Coefficient, Velocity Head, Excess Head or Crane method allows the user to characterise the pressure loss through fittings in a pipe. Assume a 6" angle valve for Schedule pipe size. For existing older type installations, these higher values are generally used for estimating friction losses Globe Valve (fully open): Year Old Pipe The friction values for Old Pipe are based on Williams and Hazen coefficient of C = Values for inch and larger sizes are for cast iron pipe; smaller sizes refer to steel pipe. The K -value represents the multiple of velocity heads that will be lost by fluid passing through the fitting. Typical values of K_L for various fittings are given below.

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