

# Download Cameron Piping Manual Calculation

The control valve pressure head drop will be 10 feet of fluid. The piping material is stainless steel ID piping. All the manual valves are fully open butterfly valves. Notes and instructions: disregard the reducer loss in the calculation. This calculation can be done however it is long it does not significantly enhance this exercise. 0.001 0.01 0.1 Pressure Loss - psig per 100 Feet of Pipe 10 11 01 00 1,000 10,000 100,000 Flow Rate (gpm) - Gallons per Minute Fiberglass Pipe Pressure Loss Curves for Water Total head, N.P.S.H. and other calculations... 5 Sample calculation for line segment L 1 The friction loss in feet of fluid for 100 feet of pipe from the table in Figure 6 is 1.64.» Friction Pressure Drop Calculation | Where:  $f_n$  =  $n$  th iteration friction factor  $f_{n+1} = (n+1)$  th iteration friction factor  $g(f_n) =$  Colebrook equation  $g'(f_n) =$  First derivative of Colebrook equation. A macro that solves the Colebrook formula is given in this spreadsheet.