



Fig. 8.23. Loss of air pressure due to pipe friction for initial pressures up to 400 lb. **Problem:** 1,000 cfm free air (standard air) is to be transmitted at 100 psig pressure through a 4-in. standard weight pipe. What will be the pressure drop due to friction? **Solution by chart:** Enter the chart at the top, at the point representing 100 psig pressure, and proceed vertically downward to the intersection with a horizontal line representing 1,000 cfm, then parallel to the diagonal guide lines to the right (or left) to the intersection with a horizontal line representing a 4-in. pipe, then vertically downward to the pressure-loss scale at the bottom of the chart, where it is observed that the pressure loss would be 0.225 psi per 100 ft. of pipe. (Reprinted by permission from Walworth Co.)