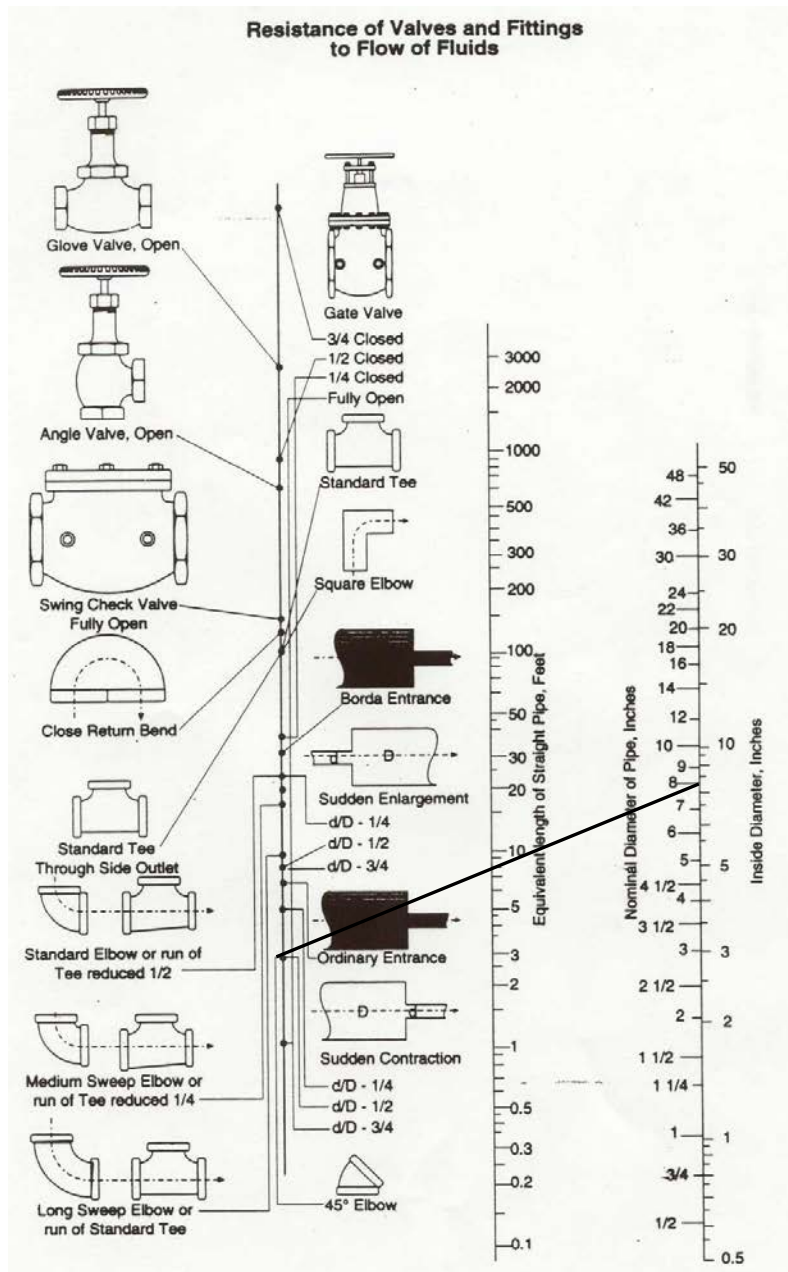## METHOD # 1

Minor losses can be generalized into the pipe segment calculations by assuming a C factor of 10% less than original values.

Example: New PVC pipe without minor losses: C=120
              New PVC pipe assuming minor losses: C=108 (120 x 0.9 = 108)

METHOD #2

Resistance of Valves and Fittings to Flow of Fluids

Determine Minor Losses by using equivalent lengths of pipe by drawing a straight line between the diameter of the pipe and the appropriate source of loss (fitting, valve, entrance, etc.), read the equivalent length of straight pipe.

Example:
Given: 45 degree elbow on 8" diameter line (see drawn line)

Solution: Equivalent length of straight pipe = 8 feet; Thus use 8 feet of 8" pipe for the friction loss calculations of the fitting.