

- h_o = friction loss under actual (operating) conditions, any consistent units.
 h_c = pressure loss due to sudden contraction, feet of fluid flowing.
 h_e = pressure loss due to sudden enlargement, feet of fluid flowing.
 h_f = friction loss, feet of fluid flowing.
 h_r = regain in static pressure, feet of fluid flowing.
 h_s = friction loss under standard conditions, any consistent units.
 h_t = total dynamic pressure loss, feet of fluid flowing.
 k = conductivity, Btu per (hour) (sq ft) (Fahrenheit degree per inch).
 L = additional equivalent length of duct for loss in elbows, feet.
 L/W and L/D = additional equivalent length in terms of width and diameter, dimensionless.
 l = length of straight duct, feet.
 P = perimeter of duct, feet.
 Q_a = air quantity, cubic feet per minute.
 Q_w = heat loss through duct walls, Btu per hour.
 R = centerline radius of elbow, or vane radius as noted, feet.
 R/W and R/D = radius ratio, dimensionless.
 r = loss through specified duct sections, inches of water.
 t_1 = temperature of air entering duct, Fahrenheit degrees.
 t_2 = temperature of air leaving duct, Fahrenheit degrees.
 t_3 = temperature of air surrounding duct, Fahrenheit degrees.
 U = thermal transmittance coefficient, Btu per (hour) (square foot) (Fahrenheit degree).
 V = mean velocity of standard air, feet per minute.
 V_m = mean velocity of air or fluid, feet per minute.
 V_1 = mean velocity of standard air in inlet duct section, feet per minute.
 V_2 = mean velocity of standard air in outlet duct section, feet per minute.
 v = mean fluid or air velocity, feet per second.
 v_1 = mean velocity in inlet duct section, feet per second.
 v_2 = mean velocity in outlet duct section, feet per second.
 W = duct dimension in plane of bend, feet.
 w = weight rate of air flow through duct, pounds per hour.
 x = thickness, inches.

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