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 q = heat transferred per unit time (W, Btu/hr) A = heat transfer area of the surface (m^2 , ft^2) h_c = convective heat transfer coefficient of the process (W/ ($m^2 K$) or W/ ($m^2 o C$), Btu/ ($ft^2 h...$

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Cylinder Blind End Area = 28.26 square inches. Pounds of Force Needed / Cylinder Area = 50,000 / 28.26 = 1,769.29 PSI. What pressure is needed to develop 50,000 pounds of pull force from a 6" diameter cylinder which has a 3" diameter rod? Pounds of Force = 50,000 pounds. Cylinder Rod End Area = 21.19 square inches.

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= $A v_1$ $A_1 v_1 = A_2 v_2 + V$ absolute pressure
= gauge pressure + atmospheric pressure P =
absolute pressure Force A = Area V = volume T
T = absolute temperature Q = flow rate

Engineering Formula Sheet

Efficiency Of DC Motor: Electrical

Efficiency: $\eta_e = \frac{\text{Converted power in armature}}{\text{Input electrical Power}}$. Mechanical

Efficiency: $\eta_m = \frac{\text{Converted power in armature}}{\text{output mechanical power}}$. Overall

Efficiency: $\eta = \frac{\text{Output mechanical Power}}{\text{Input electrical Power}}$. $\eta = \frac{\text{Input Power} - \text{Total losses}}{\text{Input Power}}$. Where.

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Electric energy is power multiplied with time: $W = P t$ (5) where. $W =$ energy (Ws, J) $t =$ time (s) Alternative - power can be expressed. $P = W / t$ (5b) Power is consumption of energy by consumption of time.

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Engineering Formulas by Kurt Gieck - Goodreads

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