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~~Equations~~ Engineering Formulas

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/ ($m^2 \circ C$), Btu/ ($ft^2 h \dots$)

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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

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Rod End Area = 21.19 square inches.

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= Efficiency $d = d_{00}$ Energy: Work W
= work $F =$ force $d =$ distance Fluid

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Mechanics 1 $T \propto L$ Power (Guy-L $\propto L P$
 $1 V_1 = P_2 V_2$ $B y \propto L Q = A v$ $A_1 v_1$
 $= A_2 v_2 + V$ absolute pressure =
gauge pressure + atmospheric
pressure $P =$ absolute pressure Force
 $A =$ Area $V =$ volume $T T =$ absolute
temperature $Q =$ flow rate

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Engineering Formula Sheet

Efficiency Of DC Motor: Electrical

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

Mechanical Efficiency: $\eta_m =$

Converted power in armature / output mechanical power. Overall Efficiency:

$\eta = \text{Output mechanical Power} / \text{Input}$

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electrical Power. $\eta = (\text{Input Power} - \text{Total losses}) / \text{Input Power}$. 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

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consumption of time.

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