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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/

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(m 2o 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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Efficiency  $d = d_{00}$  Energy: Work  $W = \text{work}$   $F =$   
force  $d = \text{distance}$  Fluid Mechanics 1 T ' L  
Power (Guy-L ' L P 1 V 1 = P 2 V 2 B y ' L Q  
=  $A_1 v_1 = A_2 v_2 + V$  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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