

## Engineering Formulas

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Engineering Formulas  
 $q$  = heat transferred per unit time (W, Btu/hr)  $A$  = heat transfer area of the surface (m<sup>2</sup>, ft<sup>2</sup>)  $h_c$  = convective heat transfer coefficient of the process (W/(m<sup>2</sup> K) or W/(m<sup>2</sup> C), Btu/(ft<sup>2</sup> 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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PLTW, Inc. Engineering Formulas  $T$   $F$  = Efficiency  $d$  = distance Fluid Mechanics  $1$   $T$  '  $L$  Power (Guy-L '  $L$   $P$   $1$   $V$   $1$  =  $P$   $2$   $V$   $2$   $B$   $y$  '  $L$   $Q$  =  $A$   $v$   $1$  =  $A$   $2$   $v$   $2$  +  $V$  absolute pressure = gauge pressure + atmospheric pressure  $P$  = absolute pressure Force  $A$  = Area  $V$  = volume  $T$  = absolute temperature  $Q$  = flow rate

Engineering Formula Sheet

Efficiency of DC Motor: Electrical Efficiency:  $\eta_e$  = Converted power in armature / Input electrical Power. Mechanical Efficiency:  $\eta_m$  = Converted power in armature / output mechanical power. Overall Efficiency:  $\eta$  = Output mechanical Power / Input 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 consumption of time.

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