Handy Formulas to Help You



Q. How can I find the RPM needed to get specific GPM (Gallons Per Minute) I want?

A. Desired RPM = Desired GPM x $\frac{\text{Rated RPM}}{\text{Rated GPM}}$

Q. I have to run my pump at a certain RPM. How do I figure the GPM I'll get?

A. Desired GPM = Desired RPM x $\frac{\text{Rated GPM}}{\text{Rated RPM}}$

Q. Is there a simple way to find the approximate horsepower I'll need to run the pump?

A. Electric Brake Horsepower (Standard 85% Mech. Efficiency) Required = $\frac{\text{GPM x PSI}}{1460}$

Q. What size motor pulley should I use?

A. Pump Pulley (Outer Diameter) x <u>Pump RPM</u> Motor/Engine RPM
(Consult Engine Mfr.)

Q. How do I calculate the torque for my hydraulic drive system?

A. Torque (ft. lbs.) = 3.6 x $\frac{\text{GPM x PSI}}{\text{RPM}}$