

Basic Formulas

FORMULA FOR:	WORD FORMULA:	LETTER FORMULA:
FLUID PRESSURE In Pounds/Square Inch	Pressure = $\frac{\text{Force (Pounds)}}{\text{Unit Area (Square Inches)}}$	$P = F/A$ or $\text{psi} = F/A$
FLUID FLOW RATE In Gallons/Minute	Flow Rate = $\frac{\text{Volume (Gallons)}}{\text{Unit Time (Minute)}}$	$Q = V/T$
FLUID POWER In Horsepower	Horsepower = $\frac{\text{Pressure (psi) x Flow (GPM)}}{1714}$	$HP = PQ/1714$