

## Basic Fluid Power Formulas

<b>Linear Force or Thrust:</b>		
Force (lbs) = Area (in <sup>2</sup> ) x Pressure (psi)	$F_{lb} = AREA \times PSI$	$F_{lb} = Ap$
Force (N) = Area (cm <sup>2</sup> ) x Pressure (bar) x 10	$F_N = (AREA \times BAR) \times 10$	$F_N = 10(Ap)$
<b>Power [hydraulic]:</b>		
Power (hp) = Pressure (psi) x Flow (gpm) / 1714	$HP = \frac{PSI \times GPM}{1714}$	$P_{hp} = \frac{pQ}{1714}$
Power (kW) = Pressure (bar) x Flow (lpm) / 600	$kW = \frac{BAR \times LPM}{600}$	$P_{kw} = \frac{pQ}{600}$
*When calculating for sizing a system's prime mover, multiply answer by the pump's efficiency %.		
<b>Power [pneumatic]:</b>		
Power (hp) = Pressure (psi) x Flow (cfm) / 229	$HP = \frac{PSI \times CFM}{229}$	$P_{hp} = \frac{pQ}{229}$
Power (kW) = Pressure (bar) x Flow (dm <sup>3</sup> /min) / 600	$kW = \frac{BAR \times dm^3 / MIN}{600}$	$P_{kw} = \frac{pQ}{600}$
<b>Power [mechanical]:</b>		
Power (hp) = Torque (lb-in) x Speed (rpm) / 63025	$HP = \frac{LB.IN \times RPM}{63025}$	$P_{hp} = \frac{Tn}{63025}$
Power (hp) = Torque (lb-ft) x Speed (rpm) / 5252	$HP = \frac{LB.FT \times RPM}{5252}$	$P_{hp} = \frac{Tn}{5252}$
Power (hp) = Torque (Nm) x Speed (rpm) / 7124	$HP = \frac{Nm \times RPM}{7124}$	$P_{hp} = \frac{Tn}{7124}$
Power (kW) = Torque (Nm) x Speed (rpm) / 9543	$kW = \frac{Nm \times RPM}{9543}$	$P_{kw} = \frac{Tn}{9543}$
<b>Fluid Power Motor Torque:</b>		
Torque (lb-in) = Displacement (civ) x Pressure (psi) / 2π	$LB.IN. = \frac{CIV \times PSI}{6.28}$	$T_{lb.in} = \frac{Dp}{2\pi}$
Torque (lb-ft) = Displacement (civ) x Pressure (psi) / 24π	$LB.FT. = \frac{CIV \times PSI}{75.40}$	$T_{lb.ft} = \frac{Dp}{24\pi}$
Torque (Nm) = Displacement (ccr) x Pressure (bar) / 20π	$Nm = \frac{CCR \times BAR}{62.83}$	$T_{Nm} = \frac{Dp}{20\pi}$
<b>Cylinder Travel Speed:</b>		
Speed (in/min) = Flow (cim) / Area (in <sup>2</sup> )	$IN / MIN = \frac{CIM}{AREA}$	$v_{ipm} = \frac{Q}{A}$
Speed (cm/min) = Flow (ccm) / Area (cm <sup>2</sup> )	$CM / MIN = \frac{CCM}{AREA}$	$v_{cpm} = \frac{Q}{A}$
<b>Velocity of Oil in Hydraulic Lines:</b>		
Velocity (ft/sec) = Flow (gpm) x 0.3208 / Area (in <sup>2</sup> )	$FT/SEC = \frac{GPM \times 0.3208}{AREA}$	$v_{fps} = \frac{0.3208Q}{A}$
Velocity (m/sec) = Flow (lpm) / Area (cm <sup>2</sup> ) x 6	$M/SEC = \frac{LPM}{AREA \times 6}$	$v_{mps} = \frac{Q}{6A}$

# Basic Fluid Power

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