

### 3.2 Fluid Power: Study Guide

1. Use [this outline](#) to review the following terms from the fluid power lessons.

Absolute pressure	Atmospheric pressure	Boyle's Law	Charles' Law
Check valve	Compressor	Crack	Cylinder
Directional Control Valve	Double-Acting Cylinder	Filter	Fluid Power
Flow Meter	Flow Rate	Flow Velocity	Flow-Control Valve
Gay-Lussac's Law	Hydraulics	Lubricator	Pascal's Law
Hydro	Pneumatics	Pressure	Pressure Regulator
Pressure	Receiver Tank	Reservoir	Pressure-Relief Valve
Pump	Transmission Lines	Valve	Single-Acting Cylinder
Solenoid		Viscosity	Volume

2. Match the value on the left with the corresponding fluid power law on the right. (You use the abbreviations, make them don't answer just line)

<ul style="list-style-type: none"> <li>• Pressure (P)</li> <li>• Volume (V)</li> <li>• Area (A)</li> <li>• Temperature (T)</li> <li>• Force (F)</li> </ul>	<p>_____ Charles' Law</p> <p>_____ Boyle's Law</p> <p>_____ Pascal's Law</p> <p>_____ Gay-Lussac's Law</p>
--	--

3. In the table below, write in the appropriate formulas:

Pascal's Law	Charles' Law	Boyle's Law	Gay-Lussac's Law

4. The brake pads in a car are controlled by two (2) hydraulic pistons, each measuring  $\frac{1}{2}$ " in diameter. If the brake pedal applied 40 lbs of force to the  $3\frac{1}{2}$ " diameter master cylinder, how much force does the 40 lbs apply to the brake pads (2 pistons per wheel, at 4 wheels)?

# Fluid Power System Study Guide

**Judd E. Hollander**



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