

### 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>
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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  $\frac{1}{2}$ " pistons apply to the brake pads (2 pistons per wheel, at 4 wheeling)?

# Fluid Power System Study Guide

**N Colangelo**



## **Fluid Power System Study Guide:**

## **Fluid Power System Study Guide** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Fluid Power System Study Guide**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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