

10/10

# Fluid Power Practice Problems

## Directions

Answer the following questions. Sketch each, then label all known values. Be sure to include all steps and units throughout each solution.

All problems assume that conditions are ideal. Forces such as friction are not considered.

## Problems

A pneumatic system is producing 100 lb/in.<sup>2</sup> of gauge pressure. A cylinder is needed to press an adhesive label onto a product. It has been determined that 5 lb of force is optimal to complete this task.

1. Sketch and label all known and unknown values.

Sketch

2. What is the required area of the pneumatic cylinder?

Formula	Substitute / Solve	Final Answer
$P = \frac{F}{A}$	$100 = \frac{5}{x}$ $\frac{100x = 5}{100}$ $x = 0.05$	0.05 in <sup>2</sup>

3. What is the required diameter of the pneumatic cylinder?

Formula	Substitute / Solve	Final Answer
$d = 2r$ $A = \pi r^2$	$0.05 = \pi r^2$ $\sqrt{\frac{0.05}{\pi}} = \sqrt{r^2} = 0.13 \text{ in} \times 2 = 0.26 \text{ in}$	0.26 in

# Fluid Power Practice Problem Answer Key

**David Kirk**



**Fluid Power Practice Problem Answer Key:**

## Decoding **Fluid Power Practice Problem Answer Key**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Fluid Power Practice Problem Answer Key**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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