

# Fluid Power Practice Problems Answer Key

## Directions

Solve the following problems. Show work, state what principle(s) you use. Be sure to include all units and mathematical units notation.

All problems assume that conditions are ideal. Friction, leaks, air losses are not considered.

## Problems

A hydraulic system (operating 1000 psi) of cylinder pressure is required to move a 1000 lb load over a distance of 100 ft. The cylinder has a diameter of 2 in. and a stroke of 10 in. Determine the flow rate (gpm) required to complete this job.

1. Draw and label all major and minor cylinders.



- a. What is the required area of the pressure cylinder?

Formula	Substitute & Solve	Final Answer
$A = \frac{F}{P}$	$A = \frac{1000 \text{ lb}}{1000 \text{ psi}} = 1 \text{ in}^2$	1 in <sup>2</sup> required

- b. What is the required diameter of the pressure cylinder?

Formula	Substitute & Solve	Final Answer
$A = \frac{\pi D^2}{4}$	$1 \text{ in}^2 = \frac{\pi D^2}{4}$ $D = \sqrt{\frac{4 \times 1 \text{ in}^2}{\pi}} = 1.13 \text{ in}$	1.13 in

Always show the flow rate  
 required to  
 complete the job.

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# Fluid Power Problems Answers

**Clifford Lane**



## **Fluid Power Problems Answers:**

## The Enigmatic Realm of **Fluid Power Problems Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Fluid Power Problems Answers** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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