

Fluid Power Practice Problems Answer Key

Directions

Answer the following questions. Show work, including all known values. Be sure to include all steps and units throughout each solution.

All problems require that you list the unit(s). Points will be taken off if not included.

Problems

A pneumatic cylinder producing 2000 lbs of gauge pressure is connected to a piston and cylinder (P&C) line is provided. It has been determined that 12% of force is applied throughout the line.

1. Determine both of the required cylinder values.

Sketch:



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

Formula	Equation & Work	Final Answer
$A = \frac{F}{P}$	$\text{Area} = \frac{2000 \text{ lbs}}{12 \text{ psi}} = A = \frac{2000 \text{ lbs}}{12 \text{ psi}} = 166.67 \text{ in}^2$	$A = 166.67 \text{ in}^2$

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

Formula	Equation & Work	Final Answer
$d = \sqrt{\frac{4A}{\pi}}$ d in in	$\text{diameter} = \sqrt{\frac{4A}{\pi}} = \sqrt{\frac{4(166.67 \text{ in}^2)}{\pi}} = \sqrt{\frac{666.68 \text{ in}^2}{\pi}} = \sqrt{212.07 \text{ in}^2} = 14.56 \text{ in}$	$d = 14.56 \text{ in}$

Fluid Power Practice Problems Poe Answers

Lingjun Ying



Fluid Power Practice Problems Poe Answers:

Decoding **Fluid Power Practice Problems Poe Answers**: 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 Problems Poe Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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