

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 variables be included. Formulas with an answer are not considered.

Problems

A pneumatic cylinder producing 2000 lbs of gauge pressure is connected to a piston and cylinder (piston) that is producing 1000 lbs of gauge pressure. What is the required diameter of the rod?

1. Show and label all known and unknown values.

Known:



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

Formula	Equation & Value	Final Answer
$A = \frac{F}{P}$	$\text{Area} = \frac{F}{P} = \frac{1000}{2000} = A = \frac{1000}{2000} = 0.5 \text{ in}^2$	$A = 0.5 \text{ in}^2$

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

Formula	Equation & Value	Final Answer
$d = \sqrt{\frac{4A}{\pi}}$ d in in	$\text{diameter} = \sqrt{\frac{4A}{\pi}} = \sqrt{\frac{4(0.5)}{\pi}} = \sqrt{\frac{2}{\pi}} = \sqrt{0.6369} = 0.798 \text{ in}$	$d = 0.798 \text{ in}$

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