

Fluid Power Practice Problems Answer Key

Directions

Review the instructions. Start each new fluid circuit problem. Be sure to include all steps and units throughout each solution.

All problems require that you show your work. Formulas used are shown and not considered.

Problems

A pneumatic system is producing 1000psi² of gauge pressure. Conditions needed to apply an additional load (with a piston) is calculated assuming that it is sufficient to support an empty cylinder.

1. Identify and label all components and dimensions.



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

Formula	Substitute Value	Final Answer
$A = \frac{F}{P}$	$A = \frac{1000 \text{ lbs}}{1000 \text{ psi}}$	$A = 1 \text{ in}^2$

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

Formula	Substitute Value	Final Answer
$A = \pi r^2$	$1 \text{ in}^2 = \pi r^2$	$r = 0.564 \text{ in}$

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Puja Mehta



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