

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 show all work. Points will be taken off for not showing work.

Problems

A pneumatic cylinder producing 2000 lbs of gauge pressure is connected to a piston and cylinder (P&C) line is provided. A P&C line is connected that has an inner diameter of 0.5 in.

1. Sketch and label all known and unknown values.



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

Formula	Equation & Work	Final Answer
$A = \frac{F}{P}$	$\text{Area} = \frac{F}{P} = \frac{2000 \text{ lbs}}{10 \text{ psi}} = 200 \text{ in}^2$	200 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	$d = \sqrt{\frac{4A}{\pi}} = \sqrt{\frac{4(200 \text{ in}^2)}{\pi}} = \sqrt{\frac{800}{\pi}} = \sqrt{254.648} = 15.96 \text{ in}$	15.96 in

Fluid Power Engineering Practice Problems Answer Key

M Lipman



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