

# 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. It has been determined that 12% of force is applied throughout the line.

1. Determine both all known and unknown values.

Known:



2000 PSI

12% loss

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

Formula	Equation & Work	Final Answer
$A = \frac{F}{P}$	$Area = \frac{2000}{12} = \frac{2000}{12} = 166.67 \text{ in}^2$	166.67 in <sup>2</sup>

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

Formula	Equation & Work	Final Answer
$d = \sqrt{\frac{4A}{\pi}}$ d in in	$d = \sqrt{\frac{4(166.67)}{\pi}} = \sqrt{\frac{666.68}{\pi}} = \sqrt{212.12} = 14.56 \text{ in}$	14.56 in

# Fluid Power Practice Problems Pltw Answer Key

**Guillaume Favre**



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