

# Fluid Power Practice Problems Answer Key

## Directions

Consider the following conditions. Circle each item listed with correct values. Be sure to include all steps and units throughout each solution.

All problems require that you show your work. Provide each an answer and unit.

## Problem

A hydraulic system operating 1000 psi of absolute pressure is required to operate a piston and cylinder with a bore of 2.00 in. The cylinder is 1.00 in long. The cylinder is required to extend this load.

1. Determine each of the required dimensions.



- a. What is the required area of the pressure cylinder?

| Formula                   | Substituted Values  | Final Answer            |
|---------------------------|---|-------------------------|
| $A = \frac{\pi}{4} D^2 L$ | $A = \frac{\pi}{4} (2.00 \text{ in})^2 (1.00 \text{ in})$ | $A = 3.14 \text{ in}^2$ |

- b. What is the required diameter of the pressure cylinder?

| Formula  | Substituted Values   | Final Answer          |
|--|--|-----------------------|
| $A = \frac{\pi}{4} D^2 L$<br>$d = \sqrt{\frac{4A}{\pi L}}$ | $d = \sqrt{\frac{4(3.14 \text{ in}^2)}{\pi (1.00 \text{ in})}}$<br>$d = \sqrt{\frac{12.56 \text{ in}^2}{3.14 \text{ in}}}$ | $d = 2.00 \text{ in}$ |

All dimensions are given without unit. If the dimensions are given, provide a final dimensioning that meets the system's specific uniting system. Showing your work and units can be used to verify that systems work at 100% efficiency.

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