

# Fluid Power Practice Problems Answer Key

## Directions

Solve the following problems. Show work, state what principle(s) you use. Be sure to include all units and mathematical units notation.

All problems assume that conditions are ideal. Friction, leaks, air losses are not considered.

## Problems

A hydraulic system (operating 1000 psi) of cylinder pressure is operated manually to press an unknown load over a distance of 100 in. How much force is required to complete this job?

1. Draw and label all major and minor cylinders.



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

Formula	Substitute & Solve	Final Answer
$P = \frac{F}{A}$	$1000 = \frac{100}{A} \implies A = \frac{100}{1000} = 0.1 \text{ in}^2$	0.1 in <sup>2</sup> (0.000645 m <sup>2</sup> )

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

Formula	Substitute & Solve	Final Answer
$A = \pi r^2$	$0.1 = \pi r^2 \implies r = \sqrt{\frac{0.1}{\pi}} = 0.177 \text{ in} \implies d = 2r = 0.354 \text{ in}$	0.354 in (9.00 mm)

Always show the steps for  
 equations like  
 $A = \pi r^2$

# Fluid Power Practice Problems Key

**Ian Pickup**



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