

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 relationships.

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

Problems

A hydraulic system (operating 1000 psi) of variable pressure is required to power an actuator that must lift a load of 1000 lbs. Determine the diameter of the cylinder to complete this job.

1. Determine both of the required cylinder diameters.



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

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

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

Formula	Substitute & Solve	Final Answer
$A = \frac{\pi D^2}{4}$	$1 \text{ in}^2 = \frac{\pi D^2}{4}$ $4 \text{ in}^2 = \pi D^2$ $D = \sqrt{\frac{4 \text{ in}^2}{\pi}}$	1.125 in

Always show the steps for
 equations like
 $A = \frac{\pi D^2}{4}$

Fluid Power Practice Problems Answers

Albert A Gayle



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