

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 required to power an actuator that must lift a load of 1000 lbs. Determine the diameter of cylinder to complete this job.

1. Determine both of cylinder and actuator values.



- 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
$A = \frac{\pi D^2}{4}$	$1 \text{ in}^2 = \frac{\pi D^2}{4}$ $D = \sqrt{\frac{4 \times 1 \text{ in}^2}{\pi}} = 1.13 \text{ in}$	1.13 in

Always show the steps for
 equations and
 units.

Fluid Power Practice Problems Answers Solutions

Tao Wei



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