

Fluid Power Practice Problems Answer Key

Directions

Solve the following problems. Show work, state all units clearly, and label the units of each and underline your solution.

All problems assume that conditions are ideal. Power, flow, and force are not conserved.

Problems

A hydraulic system is producing 1000 psi of absolute pressure. A cylinder is needed to move an unknown load over a distance of 100 ft over 10 seconds. Use all facts to explain to complete this step.

1. Identify and label all known and unknown values.



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

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

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

Formula	Substitute & Solve	Final Answer
$A = \pi r^2$ $d = 2r$	$1 \text{ in}^2 = \pi r^2$ $r = \sqrt{\frac{1 \text{ in}^2}{\pi}} = 0.564 \text{ in}$ $d = 2(0.564 \text{ in}) = 1.128 \text{ in}$	$d = 1.128 \text{ in}$

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Fluid Power Problems Answers

Clifford Lane



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