

Fluid Power Practice Problems Answer Key

Directions

Consider the following situations. Identify each, then list all known values. Be sure to include all steps and units throughout each solution.

All problems assume that pistons are ideal. Friction, seals, etc. losses are not considered.

Problems

Hydraulic system representing lift table. 1st cylinder pressure is equal to second cylinder pressure. Lift table is shown below. Determine the lift.

A. Determine lift of hydraulic system.



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

Pressure	2nd cylinder 2 inches	1st cylinder
$P = \frac{F}{A}$	$5000 \text{ lbs} = \frac{F}{A} \Rightarrow A = \frac{5000 \text{ lbs}}{P}$	$P = 5000 \text{ lbs}$

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

Pressure	2nd cylinder 2 inches	1st cylinder
$A = \pi r^2$ $d = 2r$	$5000 \text{ lbs} = \frac{F}{A} \Rightarrow A = \frac{5000 \text{ lbs}}{P}$ $A = \pi r^2 \Rightarrow r = \sqrt{\frac{A}{\pi}}$ $d = 2r$	$d = 4 \text{ inches}$

All hydraulic lift systems utilize the law of the conservation of energy. Hydraulic lift systems must maintain the pressure is constant throughout the lift. Hydraulic lift systems must be used safely. These systems are not to be used in a lift.

Fluid Power Practice Problems Answer Key Pltw

Yicheng Fang



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Unveiling the Magic of Words: A Review of "**Fluid Power Practice Problems Answer Key Pltw**"

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