

Fluid Power Practice Problems Answer Key

Directions

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

All problems assume that pistons are ideal. Pressure units are listed and converted.

Problems

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

A. Hydraulic lift of hydraulic system:



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

Pressure	Area	Force
$P = 5000 \text{ psi}$	$A = \frac{F}{P} = \frac{10000 \text{ lbf}}{5000 \text{ psi}} = 2 \text{ in}^2$	$F = 10000 \text{ lbf}$

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

Pressure	Area	Force
$P = 5000 \text{ psi}$ $A = 2 \text{ in}^2$	$A = \frac{F}{P} = \frac{10000 \text{ lbf}}{5000 \text{ psi}} = 2 \text{ in}^2$	$F = 10000 \text{ lbf}$

All hydraulic lift systems require that the pressure cylinder be at least 1/2 inch in diameter. This means the system is capable of lifting 10,000 lbf. (assuming 10,000 lbf is the weight of the lift table). This system can lift 10,000 lbf.

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David Baud



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