

# Fluid Power Practice Problems Answer Key

## Directions

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

All problems assume that pistons are ideal. Pressure units are listed and are not converted.

## Problems

- Hydraulic system representing lift table. 1st cylinder pressure is equal to cylinder 2nd piston area/cylinder 1st piston area. 2nd cylinder pressure is 1000 psi. 1st cylinder is equal to cylinder 2nd area.

1. Hydraulic lift of hydraulic cylinders:



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

Pressure	Area	Pressure 1000 psi
$P = \frac{F}{A}$	$\frac{1000 \text{ psi}}{100 \text{ in}^2} = \frac{1000 \text{ psi}}{100 \text{ in}^2} = 10 \text{ psi}$	$10 \text{ psi}$

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

Pressure	Area	Pressure 1000 psi
$A = \pi r^2$ $d = 2r$	$\frac{1000 \text{ psi}}{10 \text{ psi}} = 100 \text{ in}^2$ $d = 2 \sqrt{\frac{100 \text{ in}^2}{\pi}} = 11.2 \text{ in}$	$11.2 \text{ in}$

All hydraulic lift systems represent lift of the different cylinders. Hydraulic lift is a mechanical lift. The system is capable of lifting 1000 psi. The system is capable of lifting 1000 psi. The system is capable of lifting 1000 psi. The system is capable of lifting 1000 psi.

# Fluid Power Practice Problems Answers Solutions

**Xiaolong Qi**



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