

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 (summarized below) is at standard pressure. A cylinder is needed to produce an upward force equal to a load of 1000 lbf. Determine the diameter of the cylinder to complete this job.

1. Draw and label all major and minor cylinders.



- a. What is the required area of the pressure cylinder?

Formula	Substitute & Solve	Final Answer
$F = P \times A$	$1000 \text{ lbf} = \frac{14.7 \text{ lbf}}{\text{in}^2} \times A$	$A = 68.03 \text{ in}^2$

- b. What is the required diameter of the pressure cylinder?

Formula	Substitute & Solve	Final Answer
$A = \pi r^2$	$68.03 \text{ in}^2 = \pi r^2$ $r = \sqrt{\frac{68.03 \text{ in}^2}{\pi}}$	$r = 4.64 \text{ in}$

Always show the steps for
 equations like
 $r = \sqrt{\frac{A}{\pi}}$

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