

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 cancellations in your solution.

All problems assume that conditions are ideal. Friction, leaks, air losses, etc. are not considered.

Problems

A hydraulic system (operating with oil) of absolute pressure is operated in parallel to power an actuator. Ideal conditions are provided. Given below are the dimensions of the lines to be used to complete this job.

1. Determine total oil volume and pressure values.



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

Formula	Substitute & Solve	Final Answer
$P_1 V_1 = P_2 V_2$	$1000 \text{ cc} \times 100 \text{ psi} = 500 \text{ cc} \times P_2$	100 psi

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

Formula	Substitute & Solve	Final Answer
$V = \frac{\pi}{4} D^2 L$	$1000 \text{ cc} = \frac{\pi}{4} D^2 (100 \text{ in})$ $1000 \text{ cc} = 78.54 D^2$	11.22 in

Always show the steps for
 solutions above.

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Tobias Bleicker



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