

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 two cylinders. The first cylinder is 100 mm diameter and the second is 150 mm diameter. The oil being supplied to complete this job.

1. Draw and label all major and minor valves.



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

Formula	Substitute & Solve	Final Answer
$F_1 = P_1 A_1 = F_2 = P_2 A_2$	$10000 \text{ N} = \frac{10000 \text{ N}}{100 \text{ mm}} \times \frac{\pi}{4} \times (100 \text{ mm})^2 = P_2 \times \frac{\pi}{4} \times (150 \text{ mm})^2$	$P_2 = 10000 \text{ N}$

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

Formula	Substitute & Solve	Final Answer
$F_1 = P_1 A_1 = F_2 = P_2 A_2$	$10000 \text{ N} = \frac{10000 \text{ N}}{100 \text{ mm}} \times \frac{\pi}{4} \times (100 \text{ mm})^2 = P_2 \times \frac{\pi}{4} \times (150 \text{ mm})^2$	$d = 100 \text{ mm}$

Always show the steps for
 equations like
 $F_1 = P_1 A_1 = F_2 = P_2 A_2$

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Fluid Power Practice Problems Answer Key

CH Cherryholmes



Fluid Power Practice Problems Answer Key:

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adventitious breath sounds decrease lung sounds inability to maintain airway depressed gag and

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