

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 relationships.

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

Problems

A hydraulic system (operating with oil) of constant pressure is operated in parallel to power two cylinders. The first cylinder is 100 mm diameter and the second is 200 mm diameter. Use all terms as defined in completing this page.

1. Draw and label all major and minor cylinders.



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

Formula	Substitute & Solve	Final Answer
$A = \frac{\pi}{4} D^2$	$A = \frac{\pi}{4} (100)^2 = 7853.98 \text{ mm}^2$	7853.98 mm ²

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

Formula	Substitute & Solve	Final Answer
$A = \frac{\pi}{4} D^2$	$7853.98 = \frac{\pi}{4} D^2$ $D = \sqrt{\frac{7853.98 \times 4}{\pi}} = 100 \text{ mm}$	100 mm

Always show the steps for
 equations and
 units.

Fluid Power Practice Problems Answer Key

Bruce Reinhart



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