

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. Use all terms as defined to complete this task.

1. Draw and label all major and minor cylinders.



2. What is the required area of the piston of cylinder 1?

Formula	Substitute & Solve	Final Answer
$A = \frac{F}{P}$	$\frac{10000 \text{ N}}{10 \text{ MPa}} = \frac{10000 \text{ N}}{10 \times 10^6 \text{ N/m}^2} = 1 \times 10^{-3} \text{ m}^2$	$1 \times 10^{-3} \text{ m}^2$

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

Formula	Substitute & Solve	Final Answer
$A = \frac{\pi D^2}{4}$	$1 \times 10^{-3} \text{ m}^2 = \frac{\pi D^2}{4}$ $4 \times 10^{-3} \text{ m}^2 = \pi D^2$	$D = 35.7 \text{ mm}$

Always show the steps for
 equations like
 $4 \times 10^{-3} = \pi D^2$

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Fluid Power Practice Problems Answers Solutions

Tobias Bleicker



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