

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 absolute pressure is operated in parallel to power two cylinders. The oil is produced at a constant pressure of 1000 psi. The oil flow is applied to complete this task.

1. Draw and label all major and minor cylinders.



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

Formula	Substitute & Solve	Final Answer
$Q = A \cdot v$	$1000 \frac{cc}{min} = \frac{100 \frac{cc}{min}}{A} \Rightarrow A = \frac{1000}{100} = 10 \text{ in}^2$	10 in ² (100 cm ²)

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

Formula	Substitute & Solve	Final Answer
$A = \frac{\pi d^2}{4}$	$10 \text{ in}^2 = \frac{\pi d^2}{4} \Rightarrow d = \sqrt{\frac{4 \cdot 10}{\pi}} = 3.57 \text{ in}$ $100 \text{ cm}^2 = \frac{\pi d^2}{4} \Rightarrow d = \sqrt{\frac{4 \cdot 100}{\pi}} = 11.22 \text{ cm}$	3.57 in (9.07 cm)

Always show the flow direction and the pressure drop.

Fluid Power Practice Problems Poe Answers

SA Adler



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