

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 units notation.

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

Problems

A hydraulic system (summarized below) is at standard pressure. It operates normally to move an unknown load over a distance of 1000 ft over 10 minutes. Use all terms as defined to complete this task.

1. Identify and label all major and minor valves.



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

Formula	Substitute & Solve	Final Answer
$P = \frac{F}{A}$	$1000 \text{ gpm} = \frac{1000 \text{ ft}^3}{10 \text{ min}} \times \frac{1 \text{ min}}{60 \text{ sec}} = \frac{1000 \text{ ft}^3}{600 \text{ sec}}$	1000 gpm

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

Formula	Substitute & Solve	Final Answer
$V = \frac{1}{4} \pi d^2 L$	$1000 \text{ ft}^3 = \frac{1}{4} \pi d^2 (1000 \text{ ft})$ $1000 \text{ ft}^3 = 785.4 d^2 (1000 \text{ ft})$	1.122 ft

Always show the steps for
 equations like
 $V = \frac{1}{4} \pi d^2 L$

Fluid Power Practice Problems Answers Solutions

Ian Pickup



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