

Fluid Power Practice Problems Answer Key

Directions

Consider the following situations. Identify each, then list all known values. Be sure to include all steps and units throughout each solution.

All problems assume that pistons are ideal. Friction, seals, etc. losses are not considered.

Problems

Hydraulic system representing lift table. A cylinder pressure is required to lift table to position as shown. A flow valve controls cylinder flow. A check valve prevents flow back.

A. Hydraulic lift of horizontal cylinder.



a. What is the required area of the pressure cylinder?

Pressure	Flow Rate	Flow Valve
$P = 1000 \text{ psi}$	$Q = 10 \text{ gpm}$	$Q = 10 \text{ gpm}$

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

Pressure	Flow Rate	Flow Valve
$P = 1000 \text{ psi}$ $Q = 10 \text{ gpm}$	$Q = 10 \text{ gpm}$	$Q = 10 \text{ gpm}$

All hydraulic lift systems require flow to the cylinder. Therefore, the flow valve must be sized to provide the cylinder with enough flow to lift the load. The flow valve must be sized to provide the cylinder with enough flow to lift the load.

Activity 32 3 Fluid Power Practice Problems Answer Key

Roman Wölfel



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