

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 (operating 1000 psi) of cylinder pressure is required to move a 1000 lb load over a distance of 100 ft. The cylinder has a diameter of 4 in. and a stroke of 10 in. Determine the flow rate (gpm) required to complete this job.

1. Draw and label all major and minor cylinders.



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

Formula	Substitute & Solve	Final Answer
$A = \frac{F}{P}$	$A = \frac{1000 \text{ lb}}{1000 \text{ psi}} = 1 \text{ in}^2$	1 in ² required

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

Formula	Substitute & Solve	Final Answer
$A = \frac{\pi D^2}{4}$	$1 \text{ in}^2 = \frac{\pi D^2}{4}$ $D = \sqrt{\frac{4 \times 1 \text{ in}^2}{\pi}} = 1.13 \text{ in}$	1.13 in

Always show the flow rate
 required for
 the job.

Fluid Power Practice Problems Key

D Keegan



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