

Marty Mulberry

Fluid Power Practice Problems

10/10

Directions

Answer the following questions. Sketch each, then label all known values. Be sure to include all steps and units throughout each solution.

All problems assume that conditions are ideal. Forces such as friction are not considered.

Problems

A pneumatic system is producing 100 lb/in.² of gauge pressure. A cylinder is needed to press an adhesive label onto a product. It has been determined that 5 lb of force is optimal to complete this task.

1. Sketch and label all known and unknown values.

Sketch



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

Formula	Substitute / Solve	Final Answer
$p = \frac{F}{A}$	$100 \text{ lb/in.}^2 = \frac{5 \text{ lb}}{A} \rightarrow A = \frac{5 \text{ lb}}{100 \text{ lb/in.}^2} = .05 \text{ in.}^2$	$A = 0.05 \text{ in.}^2$

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

Formula	Substitute / Solve	Final Answer
$A = \pi r^2$ $d = 2r$	$0.05 \text{ in.}^2 = \pi r^2 \rightarrow r = \sqrt{\frac{0.05 \text{ in.}^2}{\pi}} = r = 0.13 \text{ in.}$ $d = 2(0.13 \text{ in.}) = 0.26 \text{ in.}$	$d = 0.26 \text{ in.}$

Fluid Power Practice Problems Principles Of Engineering

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