

Fluid Power Practice Problems Answer Key

Directions

Consider the following conditions. Circle each item listed with correct values. Be sure to include all steps and units throughout each solution.

All problems require that you show your work. Provide each an answer and unit.

Problem

A hydraulic system operating 1000 psi of absolute pressure is required to produce 10 gpm of flow. The cylinder used is 2.5 in diameter. The cylinder is required to complete this task.

1. Determine each of the required dimensions.



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

Formula	Substitute Values	Final Answer
$A = \frac{\pi}{4} D^2$	$A = \frac{\pi}{4} (2.5)^2 = 9.8175 \text{ in}^2$	9.8175 in ²

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

Formula	Substitute Values	Final Answer
$D = \sqrt{\frac{4A}{\pi}}$ $d = 1.57$	$D = \sqrt{\frac{4(9.8175)}{\pi}} = 3.978 \text{ in}$ $d = 1.5708 \text{ in}$	3.978 in

All dimensions are given without unit. If the dimensions are given, provide a final dimensioning that meets the system's specific uniting. Before showing final results, always use the correct safety. This system uses all ANSI units.

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Scott C. Dulebohn



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