

# Fluid Power Practice Problems Answer Key

## Directions

Solve the following problems. Show work, state all units clearly, and label the units of each and underline your solution.

All problems assume that conditions are ideal. Power, flow, and force are not conserved.

## Problems

A hydraulic system is producing 1000 in.<sup>3</sup> of cylinder pressure. A cylinder is needed to move an unknown load over a distance of 100 in. Determine the oil flow in gpm to complete this job.

1. Identify and label all known and unknown values.



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

| Formula           | Substitute & Solve  | Final Answer           |
|-------------------|---|------------------------|
| $A = \frac{V}{L}$ | $A = \frac{1000 \text{ in.}^3}{100 \text{ in.}} = 10 \text{ in.}^2$ | $A = 10 \text{ in.}^2$ |

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

| Formula                   | Substitute & Solve   | Final Answer           |
|---------------------------|--|------------------------|
| $A = \pi r^2$<br>$d = 2r$ | $10 \text{ in.}^2 = \pi r^2$<br>$r = \sqrt{\frac{10 \text{ in.}^2}{\pi}} = 1.77 \text{ in.}$<br>$d = 2(1.77 \text{ in.}) = 3.54 \text{ in.}$ | $d = 3.54 \text{ in.}$ |

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# Fluid Power Problems Answers

**SJ Ball**



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