

This Issue

Problem: Pneumatic Cylinder



Illustration: John Spisak

A pneumatic cylinder has the following dimensions: 4-inch bore with a 24-inch stroke and a rod diameter of 2.5-inches. What would be the effective area of the rod-end in square centimeters?

The teaser is posted on the IFPS website (www.ifps.org) and also printed here in the Fluid Power Journal. The deadline to submit an answer is the 15th of the month following release of the Journal. Submit your information via the website, or fax it to 856-424-9248 attn: Donna Pollander. Anyone who submits the correct answer before the deadline date will have his/her name printed in the Society Page newsletter, and also be entered in a drawing for a special gift, and the winner's name will be printed in the newsletter and the Journal.



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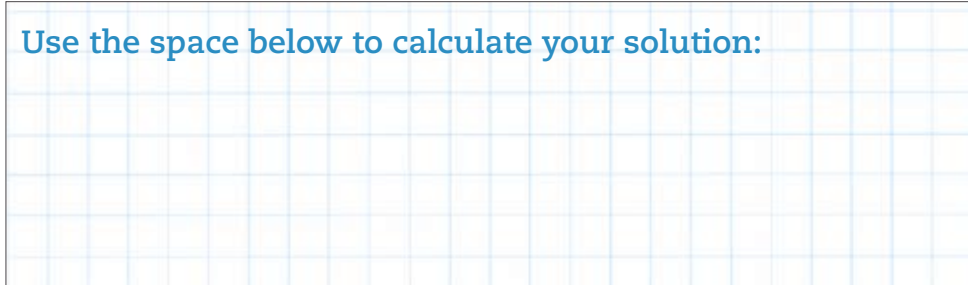
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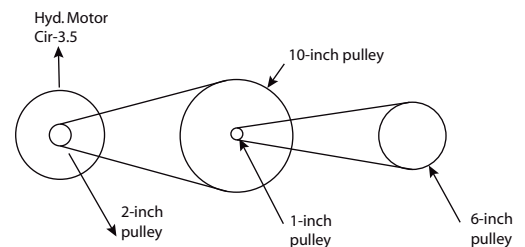
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Circle 106

Use the space below to calculate your solution:



Previous Solution Flow Rate



$$6/1 \times 200\text{-rpm} = 1200\text{-rpm}$$

$$10/2 \times 1200\text{-rpm} = 6000\text{-rpm}$$

$$Q = \text{cir} \times \text{rpm} / 231\text{-in}^3$$

$$Q = 3.5\text{-cir} \times 6000\text{-rpm} / 231\text{-in}^3$$

$$Q = 90.90\text{-gallons per minute of flow}$$

Last Issue Winners:

Winner: \$40.00

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