Pneumatic Baseball Bat

![Image of Pneumatic Baseball Bat setup](image.png)

**Parts List**

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plywood</td>
<td>1</td>
<td>15” x 15” x .625” thick</td>
</tr>
<tr>
<td>Baseball bat</td>
<td>1</td>
<td>modeled to fit application</td>
</tr>
<tr>
<td>Baseball</td>
<td>1</td>
<td>ball of suitable size to accommodate application</td>
</tr>
<tr>
<td>Golf tee</td>
<td>1</td>
<td>standard golf tee (trimmed to suit)</td>
</tr>
<tr>
<td>Pin</td>
<td>2</td>
<td>clevis or other pin adequate for actuator</td>
</tr>
<tr>
<td>Bat support</td>
<td>1</td>
<td>spool or round stock of suitable length</td>
</tr>
<tr>
<td>Clippard pneumatic actuator</td>
<td>1</td>
<td>.500 dia. x 2” – 3” stroke double-acting actuator</td>
</tr>
<tr>
<td>Clippard pneumatic valve</td>
<td>1</td>
<td>4-way, 3-position, manually actuated valve</td>
</tr>
<tr>
<td>Clippard barbed fittings and elbow</td>
<td>5</td>
<td>elbows suitable for valve and actuator ports</td>
</tr>
<tr>
<td>Clippard pneumatic tubing</td>
<td>5 feet</td>
<td>pneumatic tubing suitable for barbed fittings</td>
</tr>
</tbody>
</table>

Assorted fasteners to secure parts to mounting board
The swing of the bat will dictate the desired stroke of the cylinder. These actuators are available in many various configurations. The image shown on the previous page is provided as a guide and suggested configuration.

Vary air pressure to adjust ball trajectory and distance.

**Outcomes for Pneumatic Bat Project**

Student will:

1. Gain experience in selecting appropriate parts for project.
2. Be exposed to and understand the operation of a mechanical linkage.
3. Gain understanding of pneumatic actuators and valves.
4. Gain understanding of characteristics inherent to pneumatic systems.
5. Observe and understand varying pneumatic pressures and their speed and effect on pneumatic systems.

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**Catalog:**  View Catalog Page

**Drawings:**  [Click to see drawing A]

**Description 1:**  fittings

**Description 2:**  1/8" NPT to 1/8" ID Hose Swivel

**Package Quantity:**  5

**List Price:**  $9.70 Dollars per unit

EXCLUDES FREIGHT, TAXES AND DUTIES (IF APPLICABLE)

**Quantity:**  1

**Extended Price:**  $9.70
<table>
<thead>
<tr>
<th>Sku</th>
<th>Quantity</th>
<th>Price</th>
<th>Extended Price</th>
<th>Delete</th>
</tr>
</thead>
<tbody>
<tr>
<td>USR-12-4</td>
<td>2 unit(s)</td>
<td>$ 22.68</td>
<td>$ 45.36</td>
<td>☐</td>
</tr>
</tbody>
</table>

**PLEASE NOTE**

Consignee is responsible for all customs, duties and sales tax.

Shipping (ZIP Code) Destination: 14895

**Sub Total:** $ 45.36

Shipping: 9.68

Handling: 10.00

**Grand Total:** $ 65.04

Please note: All orders ship from Cincinnati, OH.

Please consider contacting the Clippard distributor in your local area for quantity pricing, customer service, and application assistance:

**ROESSEL & COMPANY, INC.**

**Address:**

199 LAGRAME AVE.

ROCHESTER

NY

14613-1593

**Phone:** 585-458-5560

**Fax:** 585-458-6074

**Website:** http://www.roessel.com

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