LEVEL

Bin Vibrators/Aerators

narrow operating limits and may not move material from bins or pack material in containers
flexibility; reducing equipment down time and labor expense. The EBV is capable of running
continuously at 100% force output without overheating or mechanical damage.

The Series EBV Electric Bin Vibrator incorporates adjustable force features without
creating irritating noise. The low amperage draw at 120V reduces power consumption and
makes the vibrators usable in any application. The EBV eliminates drawbacks associated
with non-adjustable constant force units. The conventional fix force units are sized with
narrow operating limits and may not move material from bins or pack material in containers
if the moisture content changes. The adjustable force feature increases application
flexibility; reducing equipment downtime and labor expense. The EBV is capable of running
continuously at 100% force output without overheating or mechanical damage.

**FEATURES**
- High strength aluminum structure
- Impact force and interval timing can be set based on needs
- Magnetic hammer stores magnetic strength to increase the piston's impact power
- Continuous operation at 100% force output
- NEMA 4X (IP66)
- Robust aluminum body
- Silent operation (20 dB)
- Adjustable centrifugal force

**SPECIFICATIONS**
- Power Requirements: 120 VAC.
- Power Consumption: See model chart.
- Temperature Limits: -4 to 104°F (-20 to 40°C).
- Enclosure: Aluminum.
- Noise Level: 20 dB.
- Electrical Connection: Electrical junction box.
- Rotational Speed: 3600 RPM.
- Weight: See model chart.
- Approvals: CE.

**Dimensions-Inches (mm)**

| Model  | A | B   | C  | D    | E
|--------|---|-----|----|------|----
| EBV-1  | 5-1/8 (130) | 5-23/64 (136) | 5-1/16 (211) | 4-11/64 (106) | 2-43/64 (68)
| EBV-2  | 5-1/8 (130) | 5-23/64 (136) | 5-1/16 (211) | 4-11/64 (106) | 2-43/64 (68)
| EBV-3  | 5-1/8 (130) | 5-17/64 (159) | 5-3/32 (208) | 4-13/32 (120) | 2-43/64 (68)
| EBV-4  | 5-1/8 (130) | 5-23/64 (136) | 5-13/32 (120) | 4-11/64 (106) | 2-43/64 (68)

<table>
<thead>
<tr>
<th>Model</th>
<th>Max Power</th>
<th>Centrifugal Force</th>
<th>Current</th>
<th>Max Amps</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>EBV-1</td>
<td>0.09</td>
<td>0.12</td>
<td>59</td>
<td>1.03</td>
<td>9.3</td>
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<tr>
<td>EBV-2</td>
<td>0.11</td>
<td>0.15</td>
<td>110</td>
<td>1.3</td>
<td>10.1</td>
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<td>EBV-3</td>
<td>0.21</td>
<td>0.28</td>
<td>199</td>
<td>2.62</td>
<td>15.4</td>
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<tr>
<td>EBV-4</td>
<td>0.28</td>
<td>0.38</td>
<td>323</td>
<td>3.43</td>
<td>21.6</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**
- Temperature Limit: 212°F (100°C).
- Noise Level Range: 60 to 75 dBA.
- Supply Pressure: 43.5 to 87 psi (3 to 6 bar).
- Air Consumption: See model chart.
- Air Connection: 1/4” BSPT female with 1/4” OD push to connect adapter on IPV-1,
IPV-2 and IPV-3; 3/8˝ BSPT female with 3/8˝ OD push to connect adapter on IPV-4.
Also includes muffler for exhaust port.

How It Operates
The IPV series air hammer contains a powerful magnet inside the hammer. The
hammer and magnet are tightly closed before activation. As the inlet air pressure
gets higher than the force, this tightens the hammer and magnet. The hammer and
magnet will separate and cause more strength for impact power. The spring will bring
the hammer back to the initial position automatically after the impact. By doing this,
the air pressure will be released and the strength of the air pressure will be delivered
to the target impact container. It will help to smooth the flow and prevent accumulation inside the container.

**FEATURES**
- One impact wave caused by one shot
- High strength aluminum structure
- Impact force and interval timing can be set based on needs
- Magnetic hammer stores magnetic strength to increase the piston’s impact power

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>H</th>
<th>IN</th>
<th>OUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPV-2</td>
<td>6-35/64 [166.69]</td>
<td>3-15/16 [100.01]</td>
<td>2-61/64 [75.01]</td>
<td>41/64 [16.27]</td>
<td>7/16 [11.1]</td>
<td>1/4 NPT</td>
<td>1/4 NPT</td>
</tr>
<tr>
<td>IPV-3</td>
<td>8-13/64 [208.36]</td>
<td>5-33/64 [140.10]</td>
<td>4-9/64 [105.17]</td>
<td>41/64 [16.27]</td>
<td>19/32 [15.08]</td>
<td>1/4 NPT</td>
<td>1/4 NPT</td>
</tr>
</tbody>
</table>

**Series IPV Air Hammer** (single impact model) focuses on a limited target. Other
equipment of the target is minimally affected by it. It is often applied onto a pipe or clean
elbow in a tank filled with humidity or low specific gravity material.