INTERNAL CONCRETE VIBRATORS

We’re The Vibrator Guys.

VIBCO

www.vibco.com
HIGH FREQUENCY PNEUMATIC INTERNAL CONCRETE VIBRATORS

Model KA

- Maintenance Free
- Patented Wear Plate for Longer Life
- Patented Design - Job Proven for Over 30 Years
- Only One Moving Part
- Patented Air Saver Chamber for Lower Air Consumption

Simple
No Bearing Design!
Maintenance Free!

HEAVY DUTY RUBBER HOSE
AIR INLET NIPPLE
EXHAUST PLATE
TUBE
DELTRIN VANE
STEEL SPRING PRESSURE & WEAR PLATE
HARDENED END
EXHAUST CANALS
ROTOR
QUICK CONNECT
ON/OFF VALVE
LUBRICATOR
AIR EXHAUST

800-633-0032  www.vibco.com
VIBCO OFFERS SIMPLICITY & QUALITY

HOW IT WORKS:
Compressed air passes through the inlet hose into the rotor. The air pressure lifts the vane and presses it against the housing wall. The compressed air is forced out through the slots in the vane and creates a high and low pressure chamber in the shaft. The high pressure chamber (2) will increase as compressed air fills it while the rotor turns. When filled to a certain point (3) the air exhaust ports in the rotor are exposed. When this happens the compressed air exhausts quickly moving the rotor to the start position. This cycle repeats 12-15,000 times a minute creating the vibration. The weight of the rotor determines the vibration force.

VIBCO’S proven and patented High Frequency Internal Vibrators assure you of the latest innovation in vibration design technology, giving you the most maintenance free, long lasting unit on the market at low, competitive prices.

The simple, no bearing vane/rotor motor design insures reliable long life. The patented “wear-plate” eliminates expensive maintenance repairs and shut downs. The patented “air-saver” design gives high frequency, high force vibratory performance with lowest air consumption. It retains part of the compressed air during exhaust cycle to boost vibration frequency and power, preventing dampening and slowing down of unit even under severe loads. It also makes the unit start every time. The vane type motor has no bearings and only one moving rotor that produces forces from 500 lbs. to 2,000 lbs. at frequencies up to 18,000 VPM. All models operate on compressed air up to 110 PSI. Head sizes are 1-3/8", 1-3/4", 2-1/2", and 3". To select proper head size use same selection as for VIBCO’S electric internal vibrators (see page 3).

TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>KA 1-3/8 INCHES/MM</th>
<th>KA 1-3/4 INCHES/MM</th>
<th>KA 2-1/2 INCHES/MM</th>
<th>KA 3 INCHES/MM</th>
<th>KA 4 INCHES/MM</th>
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<tbody>
<tr>
<td>HEAD DIAMETER*</td>
<td>1-3/8&quot; / 35</td>
<td>1-3/4&quot; / 45</td>
<td>2-1/2&quot; / 64</td>
<td>3&quot; / 76</td>
<td>4&quot; / 102</td>
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<tr>
<td>HEAD LENGTH*</td>
<td>10-3/4&quot; / 273</td>
<td>11-1/2&quot; / 292</td>
<td>13&quot; / 330</td>
<td>15&quot; / 381</td>
<td>15&quot; / 381</td>
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<tr>
<td>TOTAL LENGTH W/HOSE (H)*</td>
<td>11'-9-3/4&quot; / 3600</td>
<td>11'-10-1/2&quot; / 3620</td>
<td>12&quot; / 3658</td>
<td>12&quot; / 3708</td>
<td>12&quot; / 3708</td>
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<tr>
<td>TOTAL WEIGHT LBS/KG</td>
<td>14 / 6.4</td>
<td>18 / 8.2</td>
<td>25 / 11.3</td>
<td>32 / 14.5</td>
<td>54 / 25</td>
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<tr>
<td>RADIUS OF EFFECTIVENESS*</td>
<td>10 / 254</td>
<td>14 / 356</td>
<td>16 / 406</td>
<td>18 / 457</td>
<td>22 / 560</td>
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<tr>
<td>OUTPUT MAX CU. YD/HR**</td>
<td>20 / 15.3</td>
<td>35 / 28.6</td>
<td>40 / 30.6</td>
<td>42 / 32.1</td>
<td>52 / 39.8</td>
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<tr>
<td>MAX AGGREGATE SIZE*</td>
<td>1&quot; / 25</td>
<td>1-5/8&quot; / 42</td>
<td>2-1/4&quot; / 57</td>
<td>2-1/2&quot; / 64</td>
<td>3&quot; / 76</td>
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<tr>
<td>AIR CONSUMPTION/CFM</td>
<td>21.5</td>
<td>28</td>
<td>36</td>
<td>40</td>
<td>53</td>
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<tr>
<td>FREQUENCY (VPM)</td>
<td>18,000</td>
<td>17,000</td>
<td>16,000</td>
<td>16,000</td>
<td>15,000</td>
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<tr>
<td>FORCE OUTPUT LBS./N</td>
<td>450 / 2002</td>
<td>800 / 3560</td>
<td>2100 / 9345</td>
<td>3200 / 14239</td>
<td>5540 / 25650</td>
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</tbody>
</table>

ALL VIBCO VIBRATORS ARE MADE IN THE U.S.A.
SIMPLICITY & EXCELLENCE
FOR LONG LIFE

FEATURES:
• MOTOR UL-LISTED
• DROP TESTED AT OVER 6 FEET
• WATERPROOF SWITCH
• WRAP AROUND PROTECTIVE FRAME
• LARGE RUBBER SHOCKS
• SHOULDERS PACK INCLUDED
• HEAVY DUTY BRUSHES

INTERCHANGEABILITY & ORDERING CHART

<table>
<thead>
<tr>
<th>JVS</th>
<th>2’</th>
<th>5’</th>
<th>7’</th>
<th>10’</th>
<th>1”</th>
<th>1-1/4”</th>
<th>1-1/2”</th>
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<tbody>
<tr>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>ACE</td>
<td>7’</td>
<td>10’</td>
<td>14’</td>
<td>21’</td>
<td>1-1/2”</td>
<td>1-3/4”</td>
<td>2”</td>
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</table>

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CHANGEABILITY

RUBBER SLEEVE HEAD
- Prevent Chipping of Epoxy Coated Rebars
- Protects Expensive Forms
- Available in 1-7/8 & 2-3/4” Head Size. To order specify RSH 1-7/8 or RSH 2-3/4

RUBBER NOSE
- Protects Expensive Forms
- Available in all head sizes.
- To Order Specify Model RN & Head Size.

Interchangeable Heads

JVS Motor for 1, 1-1/4, & 1-1/2” Heads
ACE Motor for 1-1/2, 1-3/4, 2 & 2-1/2” Heads

MOTOR SPECIFICATIONS

<table>
<thead>
<tr>
<th>MOTOR</th>
<th>HP</th>
<th>VOLTAGE</th>
<th>AMPS.</th>
<th>R.P.M.</th>
<th>WEIGHT</th>
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<tbody>
<tr>
<td>JVS</td>
<td>1.5</td>
<td>115</td>
<td>15</td>
<td>11,000</td>
<td>13</td>
</tr>
<tr>
<td>ACE</td>
<td>2.5</td>
<td>115</td>
<td>17</td>
<td>11,000</td>
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HEAD SPECIFICATIONS

*220 VOLT AVAILABLE IN SINGLE PHASE

<table>
<thead>
<tr>
<th>HEAD DIA. LENGTH INCHES / MM</th>
<th>MAX CENTRIFUGAL FORCE LBS / N*</th>
<th>AMPLITUDE AT TIP INCHES / MM</th>
<th>RADIUS OF INFLUENCE INCHES / MM</th>
<th>CAPACITY CU. YARDS/HR. CU. METERS / HR.</th>
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</thead>
<tbody>
<tr>
<td>1 X 13 / 25 X 330</td>
<td>183 / 814</td>
<td>0.075 / 1.91</td>
<td>5 / 127</td>
<td>6 / 4.6</td>
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<tr>
<td>1-1/4 X 13 / 32 X 330</td>
<td>430 / 2180</td>
<td>0.080 / 2.03</td>
<td>7 / 178</td>
<td>8 / 6.1</td>
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<td>1-1/2 X 14 / 38 X 356</td>
<td>760 / 3382</td>
<td>0.090 / 2.29</td>
<td>14 / 356</td>
<td>12 / 9.2</td>
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<td>1-3/4 X 14 / 45 X 356</td>
<td>1100 / 4655</td>
<td>0.110 / 2.79</td>
<td>18 / 457</td>
<td>24 / 18.4</td>
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<tr>
<td>2 X 14 / 51 X 356</td>
<td>1450 / 6452</td>
<td>0.130 / 3.30</td>
<td>22 / 559</td>
<td>35 / 26.8</td>
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<tr>
<td>2-1/2 X 13 / 64 X 330</td>
<td>2330 / 10368</td>
<td>0.150 / 3.81</td>
<td>25 / 635</td>
<td>42 / 32.1</td>
</tr>
</tbody>
</table>

*NEWTON

800-633-0032 www.vibco.com
JVS & ACE Electric Internal Vibrators

INTERCHANGEABILITY IS VIBCO’S SOLUTION TO MAKING THE TOUGH JOB EASY!

CUSTOMER BENEFITS:
• Heavy Duty Universal Motor
• Interchangeable Heads
• Interchangeable Flexible Shafts
• Reversible Shafts for Double Life
• Extension Shafts Available Up to 21 Ft.

3 EASY STEPS TO SELECT:
BEST SELECTION ADVICE:
Use the largest head size that will fit between the rebars, with the shortest shaft and smallest motor for the best efficiency and lowest cost.

1. MOTOR OPTIONS:
2 Motors to choose from: Model JVS 1.5 HP or Model ACE 2.5 HP. (See best selection advice above.)

2. HEAD SIZE OPTIONS:
3/4" - 1" head diameter use: thinnest prestressed sections of burial vaults, manholes, etc.
1-1/4" - 1-1/2" head diameter use: thin prestressed sections, manholes, pipes, septic tanks, etc.
1-3/4" head diameter use: the most versatile & general purpose head; ideal for floors, slabs, walls, columns, bridge decks, railings, etc.
2" head diameter use: all around size capable of handling stiff, low slump mixes, heavy open forms, large foundations, retaining walls.
2-1/2" head diameter use: enough force for the stiffest low slump mixes, foundations, heavy bridge work, etc.

3. FLEXIBLE SHAFT SELECTION:
Since motor is carried at waist height when wearing shoulder strap, choose shaft length of appropriate waist height plus the form depth. Each motor has 3 different lengths to choose from.

EXAMPLE OF HOW TO ORDER: Order Vibrator Motor (JVS) - Flexible Shaft (5') - Head Size (1""). Your order would read: JVS-5-1.

ACCESSORIES:
• SHAFT CONNECTORS: Part #IA5276
• PENCIL VIBRATORS: Model STV with 3/4" head and 3, 6, 9 or 15-foot shafts available; fits both JVS & ACE motors.

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