**WARNING:** Failure to read and follow these installation instructions and safety precautions could result in personal injury, equipment damage, shortened service life or unsatisfactory equipment performance. All information in this document is vital to the proper installation and operation of the equipment. It is important that all personnel who will be coming in contact with this product thoroughly read and understand this manual.

### 1. START

THANK YOU FOR CHOOSING A VIBCO VIBRATOR!

### 2. MOUNTING CHECKLIST

- Determine vibrator placement on equipment.
- Determine length of channel iron and style of mounting plate.
- STITCH welding mounting plate to channel iron.
- STITCH weld channel iron & mounting plate combo to bin.
- Attach vibrator to mounting plate. Check the mounting plate for warping & shim if necessary. **DO NOT OVER TIGHTEN THE BOLTS.**
- Install safety chain or cable.
- Connect hydraulic for vibrator using the ASME & SAE Standards.
- **FILL OUT WARRANTY CARD AND MAIL TO VIBCO!!**

### 3. TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight lbs</th>
<th>Avg. PSI</th>
<th>Speed VPM</th>
<th>GPM (max)</th>
<th>lbs. Force</th>
<th>N</th>
<th>dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFL-200</td>
<td>17</td>
<td>800</td>
<td>3000</td>
<td>2.2</td>
<td>1300</td>
<td>374</td>
<td>72</td>
</tr>
<tr>
<td>HFL-250</td>
<td>21</td>
<td>800</td>
<td>3000</td>
<td>2.4</td>
<td>3500</td>
<td>1900</td>
<td>70</td>
</tr>
<tr>
<td>HFL-300</td>
<td>25</td>
<td>1000</td>
<td>5000</td>
<td>2.8</td>
<td>700</td>
<td>3100</td>
<td>72</td>
</tr>
<tr>
<td>HFL-350</td>
<td>30</td>
<td>1200</td>
<td>7000</td>
<td>3.2</td>
<td>1300</td>
<td>3200</td>
<td>72</td>
</tr>
<tr>
<td>HFL-400</td>
<td>35</td>
<td>1400</td>
<td>9000</td>
<td>3.6</td>
<td>2300</td>
<td>10200</td>
<td>74</td>
</tr>
<tr>
<td>HFL-450</td>
<td>40</td>
<td>1600</td>
<td>11000</td>
<td>4.0</td>
<td>3500</td>
<td>19000</td>
<td>76</td>
</tr>
<tr>
<td>HFL-500</td>
<td>45</td>
<td>1800</td>
<td>13000</td>
<td>4.4</td>
<td>5000</td>
<td>22250</td>
<td>76</td>
</tr>
</tbody>
</table>

### 4. PLATE & CHANNEL SELECTION

**DO NOT EXCEED MAXIMUM FLOW RATE FOR ANY MODEL**

<table>
<thead>
<tr>
<th>VIBRATOR FORCE IN USES</th>
<th>WRITING PLATE THICKNESS</th>
<th>CHANNEL IRON SIZE</th>
<th>FACTOR A</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; - 1/2&quot;</td>
<td>1/8&quot; - 1/4”</td>
<td>3/4&quot; - 1&quot;</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>1/2&quot; - 1&quot;</td>
<td>1/8&quot; - 1/4”</td>
<td>3/4&quot; - 1&quot;</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>3/4&quot; - 1 1/2&quot;</td>
<td>3/8&quot; - 1 1/4”</td>
<td>3/4&quot; - 1 1/2&quot;</td>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>

### 5. VIBRATOR PLACEMENT

- For coarse materials: mount vibrator 1/3 of the distance from the discharge opening to the top of the sloped portion of the bin.
- For fine materials: mount vibrator 1/8 of the distance from the discharge to the top of the sloped portion of the bin.

**FOR ALTERNATE MOUNTS:** refer to full detail instruction manual online at www.vibco.com or call 800-633-0032

### 6. MOUNTING HARDWARE

A MOUNTING PLATE MUST BE USED to ensure proper stability for the vibrator. Always start & stop welds 1 in. from ends to prevent heat concentration. Then weld 2 to 3 inches, skip 1 to 2 inches and repeat until the plate is securely mounted.

### 7. STITCH WELD MOUNTING

- Be sure you have selected the proper length of channel using the tables below (SECTION 4). Improper mounting can result in failure of unit or damage to equipment.
- **DO NOT MOUNT VIBRATOR DIRECTLY TO SURFACE OF THE BIN!!!** Always use mounting plate & channel iron.

### 8. BOLTING PROCEDURE

Check mounting bolts every 200 hours.

### 9. RERAINT

ALWAYS INSTALL SAFETY CABLE or CHAIN

Mount one end to the vibractor and the other to the hopper or bin above the vibractor NEVER ATTACH TO THE MOUNTING PLATE!

### 10. HYDRAULIC CONNECTION B-SERIES

1. Coat all fittings with sealing compound and secure hydraulic hoses to inlet & outlet sides of motor as marked by directional arrows.
2. Hook up ball valve on inlet side and check valve on outlet side to reservoir.
3. Check & tighten all fittings & connections before test running vibrator.
4. Hydraulic system MUST have a filtration system & oil is industrial petroleum-based oil, SAE 10 to 30, with wear oxidation and foaming inhibitors, and a viscosity of 200 SSU.

<table>
<thead>
<tr>
<th>INLET</th>
<th>OUTLET</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; NPT</td>
<td>3/8&quot; NPT</td>
</tr>
<tr>
<td>1/2&quot; NPT</td>
<td>1/2&quot; NPT</td>
</tr>
</tbody>
</table>

### ADDITIONAL DETAILS AVAILABLE ONLINE AT www.vibco.com

**NOTE:**

1. Longer channel iron will not affect vibrator performance, but total channel length should not exceed length of bin wall.
2. Percentages shown indicate % of bin wall height your channel iron should be for shorter bins.
3. To match your vibrator on chart above, model number suffices generally correspond to pounds of force generated. See chart in section 5.

**RETURN LINE**

Return line must be connected back to the oil reservoir and NOT to any line under pressure

**ATTENTION:** WHEN HOOKING UP MULTIPLE UNITS YOU MUST SUPPLY INDEPENDENT HYDRAULIC LINES. UNITS WILL NOT RUN TO FULL SPECIFICATIONS & MAY FAIL WHEN INSTALLED IN SEQUENCE.
Shipping instructions: Specify shipping point and method of shipping.

From label: Model number of unit.

The following data should be provided when placing your spare parts order:

- Model number
- Part number
- Description
- Quantity
- Shipping instructions

Ordering Spare Parts

VIBCO reserves the right to make changes in pattern, design or materials when deemed necessary, without prior notice or obligation to make corresponding changes in previous models. To be sure of exact mounting dimensions, it is recommended that you obtain a certified dimensional drawing from the factory.

Maintenance

Check tightness of all hydraulic hoses and connections.

Inspect hydraulic oil on a periodic basis. If dark or thick replace with new oil.

Check structure for cracking or fatiguing. If found, repair before running unit. Call VIBCO for instructions to repair fatigue cracking.

Troubleshooting

Leaking Oil?

1. Check tightness of all hydraulic fittings.
2. Be sure the check valve is installed in the proper direction with the flow of hydraulic oil.
3. Check outlet line pressure (panel 12). If outlet line pressure is over 30 psi case drain hose to reservoir MUST be installed.
4. End cover leaks on B-Series vibrator is a result of high oil pressure. Check castings for cracks & contact VIBCO immediately.
5. If shaft seals are leaking on H-Series vibrator contact VIBCO for replacement kit & instructions. Shaft seal failure is due to excessive back pressure & case drain MUST be installed.

Warranty

All warranty claims must be submitted to VIBCO for approval prior to any repairs being done. Failure to do so will void any and all warranty coverage. All repairs will be done at the VIBCO factory.

Errors, Shortages & Complaints

Complaints concerning goods received or errors should be made at once. Claims must be made within five days after receipt of goods. Clerical errors are subject to correction. Damage during shipping must be reported to the carrier, not VIBCO.

Returning Parts

Parts should not be returned to VIBCO without prior authorization. Call VIBCO’s customer service department at 800-633-0032 (800-465-9709 in Canada) for a Return Goods Authorization (RGA) number. A return authorization will be emailed or faxed to you. Use this as your packing slip. Return shipping must be prepaid. Material returned may be subject to a 10% restocking fee. All returned shipments should clearly display your name, address and original invoice number to ensure proper credit.

Orders for custom equipment built to customer’s specifications are not returnable.

Product Changes

VIBCO reserves the right to make changes in pattern, design or materials when deemed necessary, without prior notice or obligation to make corresponding changes in previous models. To be sure of exact mounting dimensions, it is recommended that you obtain a certified dimensional drawing from the factory.

For custom mounting applications or any other questions:

800-633-0032 or vibrators@vibco.com

B & H Series Hydraulic Vibrators

800-633-0032 • vibrators@vibco.com • www.vibco.com