**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 INSTRUCTIONS CHECKLIST

The warranty is void if vibrator is not properly installed. During installation follow and check off the following steps and your vibrator should provide you with years of trouble-free service.

- **FILL OUT WARRANTY CARD!!!**
- Determine length of channel iron.
- Select thickness of mounting plate & method of mounting.
- **STITCH** weld mounting plate to channel iron.
- Determine vibrator placement on bin.
- **STITCH** weld channel iron to bin.
- Place vibrator on mounting plate. Secure firmly.
- Install safety chain or wire.
- Connect pneumatic hook up.

### 3. PLATES & CHANNEL SELECTION

<table>
<thead>
<tr>
<th>VIBRATOR SERVICE LBS</th>
<th>WRITING PLATE THICKNESS</th>
<th>CHANNEL IRON SIZE</th>
<th>FACTOR A</th>
<th>BIN WALL THICKNESS</th>
<th>FACTOR B</th>
<th>USE CHANNEL LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-150</td>
<td>1/8&quot;-1/4&quot;</td>
<td>1/2&quot;</td>
<td>1</td>
<td>1/8&quot; to 1/4&quot;</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>160-250</td>
<td>1/8&quot;-1/4&quot;</td>
<td>3/8&quot;</td>
<td>4</td>
<td>1/4&quot; to 3/8&quot;</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>320-400</td>
<td>3/8&quot;-1/2&quot;</td>
<td>3/8&quot;</td>
<td>4</td>
<td>1/4&quot; to 3/8&quot;</td>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

**NOTE:** These plates & channel lengths are for most common applications. Additional info for other applications available in full detail. Version of instructions available online at www.vibco.com

800-633-0032 for Mounting Plates & Brackets, Spare & Replacement Parts and 24/7 Technical Support

### 4. VIBRATOR PLACEMENT

#### 2 Vibrators On A Single Bin

**Conical Bin**

**Rectangular Bin**

**NOT SURE HOW TO MOUNT? CALL VIBCO TECH HELP 401-539-2392**

### 5. STITCH WELD MOUNTING

Be sure you have selected the proper length of channel using the tables above (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.
- **STITCH WELDS SHOULD START & STOP 1" (2.5cm) FROM BOTH ENDS OF CHANNEL TO STOP FATIGUE CRACKING.**

### 6. BOLTING PROCEDURE

**NOTE:** The wrong bolt length or grade can result in improper mounting or failure of the equipment. It is critical to use the right grade and length for each type of bolt.

**GRADE 5 BOLT SIZE**

- 1/4" 9
- 5/32" 13
- 3/32" 16
- 5/32" 18
- 5/32" 19
- 3/32" 240

**MAX TORQUE**

- 1/4" 38
- 5/32" 32
- 3/32" 32
- 5/32" 150
- 3/32" 240

**FOR OTHER BOLT GRADES, PLEASE CONSULT VIBCO.**

### 7. PNEUMATIC HOOK UP

**TO DETERMINE CORRECT AIR HOSE SIZE**

<table>
<thead>
<tr>
<th>BALL MODEL NUMBER</th>
<th>MIN AIR HOSE DIA</th>
<th>MIN <em>FL</em> THREAD DIA</th>
<th>CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-150</td>
<td>1/8&quot;</td>
<td>1/4&quot;</td>
<td>4 - 6</td>
</tr>
<tr>
<td>160-250</td>
<td>1/4&quot;</td>
<td>1/4&quot;</td>
<td>7 - 10</td>
</tr>
<tr>
<td>320-400</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
<td>10 - 20</td>
</tr>
</tbody>
</table>

**NOTE:** On BB, BV and V models, the smaller INNER port is the air inlet and the larger port is the exhaust.

### 8. RERAINT

**ALWAYS INSTALL SAFETY CHAIN**

Mount one end to the vibrator and the other to the hopper or bin above the vibrator. Never attach chain to the mounting plate.

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PNEUMATIC INSTALLATION

5" solenoid to vibrator

Solenoid Valve

Air Regulator

Air Filter

Flow Valve

LUBRICATION IS MANDATORY!

For best performance DO NOT RUN vibrators in series off one hose

5' lubricator to vibrator

15' lubricator to vibrator

OPERATING SPECS

Maximum Air Pressure

Operating pressure should not exceed 60 psi for BB-100, BB-130, BB-160, BB-190, BV-60, BV-130, V-100 and V-130.

Maximum Temperature

The operating temperature of the vibrator should not exceed 350°F (175°C). Alternative HIGH TEMP units are available. Consult the factory with your application information for best recommendations.

TROUBLESHOOTING

MY MATERIAL STILL ISN'T MOVING!

1. Did you put your vibrator in the right location? Did you mount your vibrator properly?
2. Do you have the right vibrator for the job? Does it provide enough force? Is it the right frequency? Still not sure? Call VIBCO Technical Support at 800-633-0032.
3. Do you run the vibrator when the process is stopped? Over running the vibrator can pack material in the bin or hopper. Send us some digital photos to info@vibco.com – we can help!

THE VIBRATOR WON'T START!

1. Check for dirt, Teflon tape, pipe dope, etc. in the airline, inlet opening or exhaust muffler.
2. Check air line for leakage. Quick disconnect air fittings can leak as well as restrict air flow.
3. Double check the size of your air line - is it large enough to give you the correct cubic feet per minute (CFM) and correct air pressure (minimum required = 20 PSI)? See panel 7.
4. Double check to see the air line is attached to the correct port (see #9).

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. 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.

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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.

Ordering Spare Parts

Parts can be ordered through authorized distributors or from VIBCO's Spare Parts Department. The following data should be provided when placing your spare parts order:

From label: Model number of unit.
From spare parts list: Reference number, part number, description & quantity required.
Shipping instructions: Specify shipping point and method of shipping.

For custom mounting applications or any other questions:

800-633-0032 or vibrators@vibco.com

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