**BIN-FLO® Aerators**

*a product of BINDICATOR® Company*

### "L" SERIES INSTALLATION

- Drill 7/16" hole through the bin wall or mounting surface at the center of each BIN-FLO® aerator location.
- Insert the tank nipple (short tapered thread end) in the aerator and place the unit inside the bin, inserting the tank nipple through the drilled hole in the bin wall.
- Place the gasket on the nipple next to the outside of the bin wall together with sufficient space washers and lock securely in place with the locknut.
- Install piping to the BIN-FLO® aerators and complete connection to the air supply.

### "LL" SERIES INSTALLATION

- Drill 9/16" hole through the bin wall at the center of each BIN-FLO® aerator location and proceed as above.

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### AIR SUPPLY PIPING

Piping of adequate size to carry the required volume of low pressure air must be provided to assure reliable operation of the BIN-FLO® aerators. As a general guide the following minimum pipe sizes should be used for the manifolds to which the aerators are attached. In all cases the number of pipe fittings should be held to a minimum.

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Number of BIN-FLO Aerators</th>
<th>&quot;L&quot; Series</th>
<th>&quot;LL&quot; Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; (19mm)</td>
<td>1-5</td>
<td>1&quot; (25.4mm)</td>
<td>1-5</td>
</tr>
<tr>
<td>1&quot; (25.4mm)</td>
<td>6-9</td>
<td>1-1/4&quot; (32mm)</td>
<td>6-8</td>
</tr>
<tr>
<td>1-1/4&quot; (32mm)</td>
<td>10-12</td>
<td>1-1/2&quot; (38mm)</td>
<td>9-11</td>
</tr>
</tbody>
</table>

### AIR SUPPLY

The best and usually the most economical air supply is from a positive displacement low pressure blower.

For test applications or applications involving less than 30 CFM, compressors may be used in conjunction with a pressure reducing regulator and filter or moisture trap on the low pressure side.

The following table shows the volume of air one BIN-FLO® aerator (uncovered) will use at various operating pressures. Check the pressure near the most distant BIN-FLO® aerators with the bin empty.

**NOTE:**

- A continuous air supply must be maintained at all times to insure a proper operation of the BIN-FLO aerators. Lack of air supply will cause the material to build-up on the aerators and result in damage to the BIN-FLO aerators.

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**IMPORTANT!**

Do not dispose of the carton or packing until the unit has been inspected for damage. If the unit is received damaged, notify the carrier or the factory for instructions. Thank you!

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HOW MANY BIN-FLOS PER ROW?
To determine the number of BIN-FLO® aerators required for each row:

Measure the length of the sloping side of the hopper on which the aerators are to be installed. Refer to the table at the right, select the model to be used ("L" Series or "LL" Series) and the spacing of the units. Read down the column until the approximate length of slope is reached. The number of aerators required is shown at the right. Example: The 6'11" slope will require 6 model "L" aerators mounted on 15" centers.

<table>
<thead>
<tr>
<th>No. of Aeration Pads per Row</th>
<th>&quot;L&quot; Series Mounted On</th>
<th>&quot;LL&quot; Series Mounted On</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12&quot; Centers</td>
<td>15&quot; Center</td>
</tr>
<tr>
<td>2</td>
<td>1'-8&quot;</td>
<td>50.8cm</td>
</tr>
<tr>
<td>3</td>
<td>2'-8&quot;</td>
<td>81cm</td>
</tr>
<tr>
<td>4</td>
<td>3'-8&quot;</td>
<td>112cm</td>
</tr>
<tr>
<td>5</td>
<td>4'-8&quot;</td>
<td>142cm</td>
</tr>
<tr>
<td>6</td>
<td>5'-8&quot;</td>
<td>173cm</td>
</tr>
<tr>
<td>7</td>
<td>6'-8&quot;</td>
<td>203cm</td>
</tr>
<tr>
<td>8</td>
<td>7'-8&quot;</td>
<td>234cm</td>
</tr>
<tr>
<td>9</td>
<td>8'-8&quot;</td>
<td>264cm</td>
</tr>
<tr>
<td>10</td>
<td>9'-8&quot;</td>
<td>295cm</td>
</tr>
</tbody>
</table>

CONICAL HOPPER
In a conical hopper four rows of BIN-FLO® aerators, located as shown, are normally required. The "L" series should be used in small cones as the smaller aerator adapts better to the curved surface.

To prevent clogging of material in discharge pipe or chute install one row of aerators on the under side of the slope, as shown.

PYRAMIDAL HOPPER
In a pyramidal hopper four rows of BIN-FLO® aerators centered on the sloping sides usually assures full and uniform flow. For minimum retention of material in the corners, an alternate location in the valleys is suggested.

To prevent clogging of material in discharge pipe or chute install one row of aerators on the under side of the slope, as shown.

V-BOTTOM BIN
This layout may be used in bins emptied by screw conveyor, belt conveyor or other means where the discharge opening runs the entire length of the bin, it provides full and uniform flow to the discharge opening without bridging over the outlet. Number of rows of BIN-FLO® aerators required and spacing will depend upon the size of the bin as well as the material being handled.

**Level and Material Handling Instrumentation & Controls**

For information, specifications or engineering help on any Bindiator® product, contact your local representative or the factory.

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