INSTALLATION AND OPERATING INSTRUCTIONS FOR METALFAB POSIBINS

Description

The **Metalfab Posibins** are an assembly of a Bin Activator and a stationary bin. The bins are either equipped with leg supports or knee brackets for mounting to the customerÅfs steel work.

Installation

After the unit is removed from the skid and put in place, it should be leveled and securely bolted using the holes provided in the leg brackets or knee brackets.

The vibrator should be wired (see the wiring diagram in the conduit box or the manufacturers instruction sheet) using a flexible cord. Neoprene covered braided wire is suggested. The vibrator can run either clockwise or counterclockwise.

All connections to the Bin Activator must be flexible. It is good practice to make connections to the bin section also flexible.

After installing the Posibin and tightening all bolts, run the unit empty for approximately ten minutes. Then recheck the suspension arm bolts, vibrator mounting bolts and sleeve clamps for tightness.

Note: ***When tightening the clamps, be sure to support the far side tube with vise grip pliers when turning nut. Failure to do so may cause a twisting action on strapping which may lead to damage of clamp.***

Suspension arm bolts for the 3 foot diameter and larger units must be torqued to 540 foot pounds. Vibrator mounting bolts as follows:

3 / 8Åh BOLT.....35 FOOT POUNDS
1 / 2 BOLT.....125 FOOT POUNDS
5 / 8Åh BOLT.....160 FOOT POUNDS
3 / 4Åh BOLT.....310 FOOT POUNDS
1Åh BOLT.....540 FOOT POUNDS

Vibrator Installation

1. This unit imparts vibration to the Bin Activator. It must be securely bolted to the unit (torque mounting bolts according to previous instructions). All bolts must be retightened after the first ten minutes of operation and again during the second day of operation. All nuts and bolts, especially vibrator mounting bolts, should

be retightened every three months or more frequently, depending on the amount of usage.

2. Because the Bin Activator, including the motor, vibrate, the electrical connections must be made with flexible lead. Braided Neoprene covered cable is recommended.

WHEN INQUIRING ABOUT ANY POSIBIN, ALWAYS REFER TO THE SERIAL NUMBER STAMPED ON THE METALFAB NAMEPLATE.

Operation

VIBRATOR FORCE ADJUSTMENT: ***WARNING! Before any adjustments, vibrator should be electrically ÅeLOCKED OUTÅh.***

1. The centrifugal force setting of the vibrator is set at the factory for the minimum force level that will produce flow of product. If flow is not instantaneous or continuous, it may be necessary to increase the centrifugal force. To do so, the following procedure should be followed:

    1) Remove the bolts of both the upper and lower end covers.
    2) Remove end covers exposing the four (4) eccentric weights.

Note: **The (2) OUTER weights on the *INVICTA* Explosion Proof and the *METALFAB* TENV vibrators are the weights to be adjusted. The two (2) INNER weights on the *INVICTA* TENV vibrators are the weights to be adjusted.**

2. To increase the force setting, loosen the clamping bolt on the two (2) weights that will be adjusted. (See note above).

3. Refer to the applicable vibrator operation and maintenance instruction for force settings and technical information.

4. As the centerline of the adjusted weights approach the centerline of the fixed weights, the centrifugal force is increased. When the weights centerline are opposed, the centrifugal force decreases. If the centerline of all four (4) weights are completely aligned, you will develop the maximum force available for that size vibrator.

5. Regardless of which vibrator you have, when you have completed your force adjustment, the OUTER weights should be in line with each other and the INNER weights should be in line with each other. ANY OTHER ARRANGEMENT WILL RESULT IN A MOTION THAT CAN DAMAGE THE VIBRATOR AND BE VERY DETRIMENTAL TO THE APPLICATION, WELDS OF THE BIN ACTIVATOR AND SUPPORT STRUCTURES.

6. Assemble the unit by reversing the procedure outline as above.

Note: **Bin Activator vibrator should be electronically interlocked with down stream feed devices, i.e., when screw, belt, rotary, etc. feeder stops _ vibrator should also stop.**

Full Load & Starting Currents

See Vibrator Instruction Manual and Motor Nameplate Data.

Secondary Baffle

1. The secondary baffle has been positioned by **Metalfab** engineering for your application requirement. ItÅfs position will allow for the proper flow of product through the Bin Activator outlet.

2. The position of the secondary baffle is maintained by an Esna type lock nut. The secondary baffle can be repositioned vertically by using a deep socket type wrench to loosen the lock nut, thereby allowing the secondary baffle to be turned, possible by hand, on the threaded section of the extended rod, to a higher or lower position. Since the secondary baffle is located near the outlet, it is easily accessible from the outlet.

3. If flow problems occur, the secondary baffle could be repositioned to help eliminate the problem. Before making any adjustments, it is advisable to check with **Metalfab** engineering for advice as to what new position might be helpful.

Maintenance Instructions

1. **Vibrator Lubrication**

   The vibrators are lubricated as supplied. The lubrication is good for 2,000 to 5,000 hours. See vibrator instructions.

2. **Flexible Sleeve**

   Aside from checking the clamp tightness, there is no maintenance required on the sleeve. Periodic visual checks should be made to see if there is damage caused by material or solvent attack of the elastomer.

   Note: **Standard sleeve is Neoprene with a maximum temperature rating of 210ÅãF and VITON with a maximum temperature rating of 400ÅãF.**

WARNING: ***Because of the elastomeric seals required on vibrated equipment, the Bin Activator WILL NOT CONTAIN A FIRE OR EXPLOSION. If a fire is in the Bin, THE AREA SHOULD BE EVACUATED AND AVOIDED!***

3. **Isolators**

The isolators should give years of use baring chemical attack or severe overloading.

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Metalfab Service

Metalfab, Inc.
Prices Switch Road
P.O. Box 9
Vernon, NJ 07462
Phone (973) 764-2000
Fax (973) 764-0272
Email: metalfab@metalfabinc.com