

No oil in the air will cause the piston and cylinder walls to wear down rapidly, in some cases less than 8 hours.

In extremely cold applications it is advised to mix antifreeze or kerosene with the oil.

Inject a small quantity of kerosene directly into the vibrator occasionally in order to clean out any accumulated sludge.

Air pressure in excess of 80 psi will increase the velocity of the piston, diminishing the protective oil film and increasing the unit wear.

## OPERATING INSTRUCTIONS

### **To Obtain Maximum Performance**

It is not necessary to operate the vibrator at its maximum capacity to obtain maximum performance. Air regulators, timers, etc. should be used to tune the vibrator for optimum performance and ensure longer life.

### **Continuous vs. Intermittent Operation**

For bulk material bin applications, the vibrator should be used to reduce the material friction and increase flow, not as a feeder. Once the friction of the particles is reduced, gravity flow takes over and the vibrator should then be turned off for several reasons:

**Economy.** Most vibrators are run 60% to 80% longer than they should. Short bursts of vibration are usually more effective than operating continuously. Experience has shown that for most applications, short bursts of 10 to 30 seconds for every 1 to 5 minutes of discharge are more effective and efficient.

**Life of the Unit.** The life of the vibrator will be determined by the length of operation and the cleanliness of the air supply.

**Guaranteed Success of the Application.** The vibrator can only furnish material to the discharge area. If more is furnished than conveyed, the remaining material will pack inside the bin. We suggest the vibrators only run when the bin gates or doors are open, or when material flow is needed.

## TROUBLESHOOTING

### **The Vibrator Won't Start!**

1. Check for dirt in the airline
2. Check to see if there's any lubrication (remember 1 drop per minute per every 10 CFM)
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)?
4. Did you mount the air regulator far enough away from the quick acting valve for the right amount of air pressure to build up?
5. Is the vibrator mounted horizontally? If so, did you get the model with the spring?