

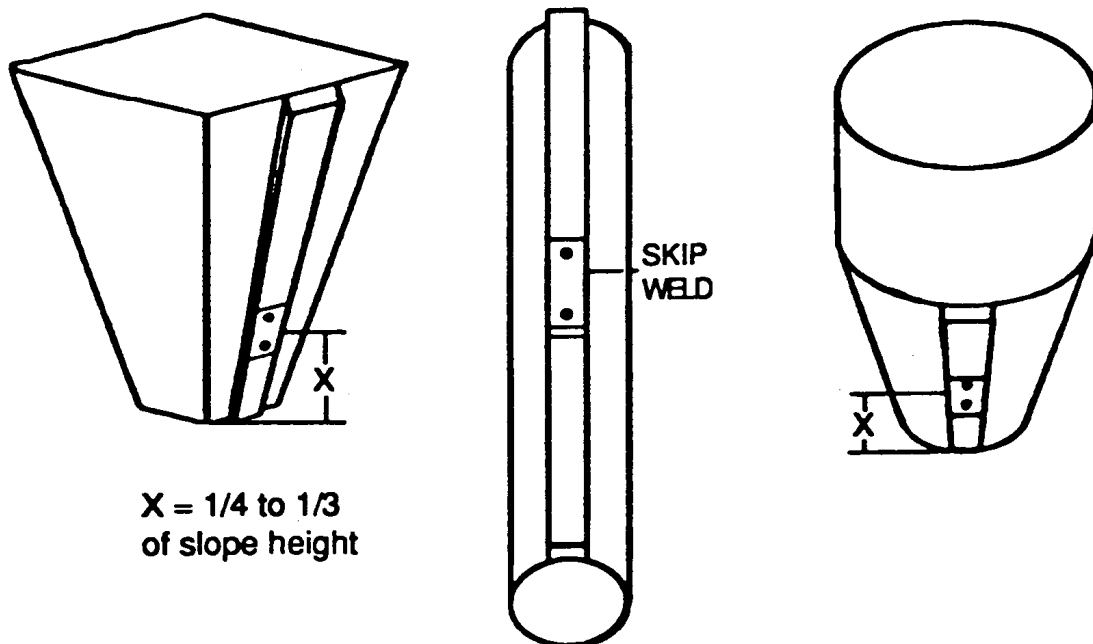
# PNEUMATIC BALL VIBRATORS

## *Installation & Operation Instructions*

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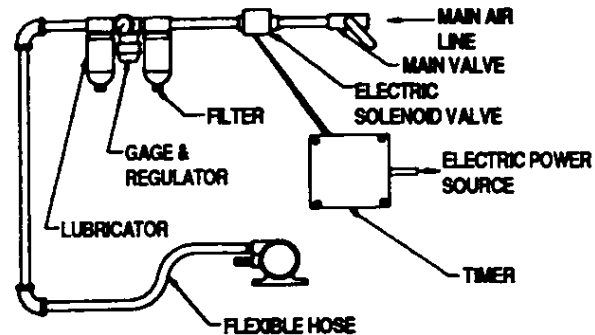
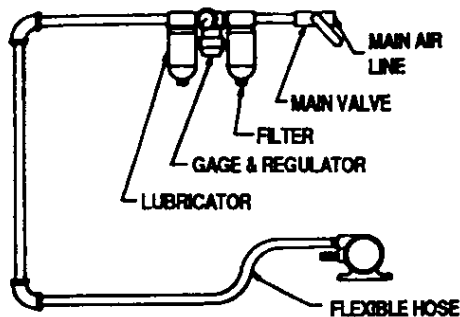
When installing a ball vibrator on a bin, hopper, or pipe, the location and rigidity of the mount is extremely important. A firm, rigid mount insures the most efficient operation of your vibrator. A weak mount will not distribute vibration properly, and can cause vibrator failure and/or bin wall fatigue. In most cases, installations on bins, hoppers, and pipes require the use of a reinforcing beam, channel, stiffener plate, or mounting plate. Before beginning your installation, refer to the drawings below to determine the proper placement for the vibrator on your structure.



Your vibrator should be mounted along the center line of the surface with the least slope, approximately  $1/4$  to  $1/3$  of the way from the discharge to the top of the sloped side on a reinforcing channel. If your structure has one vertical side, mount the vibrator on the slope side opposite the vertical surface.

Skip weld your channel or reinforcing beam to your structure using the 2" – 3" welds and 3" skips. Do not weld within 1" of the ends of the channel. If you are also using a mounting plate, skip weld the mounting plate to the channel along the length of the mounting plate as shown above.

Before installing the vibrator, make sure that the mounting surface is clean and free of dirt, grease, welding slag and spatter.



The above illustration shows typical methods for installing, controlling, filtering, and lubricating your Houston Vibrator Pneumatic Ball Vibrator. All components shown are available from Houston Vibrator. It is always recommended that an air filter, lubricator, and pressure regulator be used with pneumatic vibrators to reduce wear, and extend the service life of the unit. In addition, the ability to control the air pressure supplied to the vibrator allows you to control and fine tune the frequency and force of the vibrator.

#### NOTE:

If rigid pipe is used to supply air to the location of your vibrator, a short section of flexible hose should be inserted between the pipe and the vibrator. This will prevent the transfer of vibration to the pipe.

#### CAUTION:

**NEVER** operate any vibrator on empty structures. Damage to vibrator and/or your structure can occur.

#### CAUTION:

**NEVER** operate any vibrator on a structure when the discharge is closed. If flow is restricted, compaction will occur.

#### IMPORTANT:

Mounting bolt tightness should be checked periodically. Loose mounting bolts can reduce vibrator efficiency, and possibly cause damage to the vibrator and/or bin wall.