



NAVCO® Pipe Mount Vibrators Clear Pipes and Chutes

THE BACKGROUND

A coal fired power plant in the Northern United States experienced build-up in coal chutes directly above the feeders. To clear the chutes manually was a very labor intensive and hazardous operation. Several solutions to the problem were tried-including vibrators mounted in a variety of different configurations. However, due to the severity of the problem and the difficulty in mounting a vibrator on a pipe at the flow restriction, the attempts were not successful.

THE OBJECTIVES

When NAVCO® was contacted about the flow problem, the following objectives were identified:

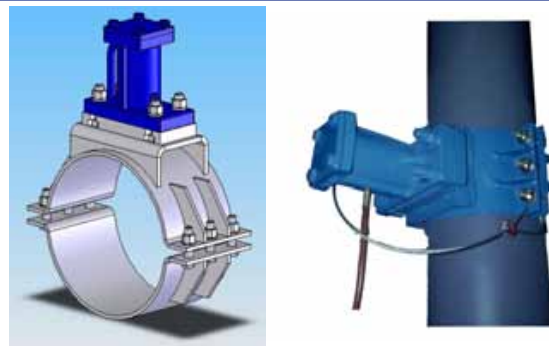
- ✍ Provide a rigid mounting assembly to mount a vibrator to a pipe.
- ✍ Maximize the area of influence of the vibrator.
- ✍ Provide an assembly that could easily be relocated to changing flow restrictions.
- ✍ Specify the correct vibrator size and type for the optimum results.

THE NAVCO SOLUTION

With the objectives in mind, the new NAVCO® Pipe Vibrator was developed.

The new design provides:

- ✍ Rugged construction of the bracket to provide reinforcement of the pipe.
- ✍ Maximum surface area contact to transmit the vibration energy directly through the pipe and into the material.
- ✍ A clamping assembly that can easily be loosened and moved to changing flow restrictions.
- ✍ A repetitive short time duration impulse vibrator for effective vibration and efficient vibration energy transmission to the chute/coal interface.



The new NAVCO® design performed successfully and has been installed at several locations in the plant, both above and below the feeders. In addition, the units are currently in use at a number of power plants and other industries where dry bulk solid materials are handled.

NAVCO® Pipe Vibrators are manufactured to order for any size pipe or chute and vibrator. The unit is provided complete with safety cables and fasteners.

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