NAVCO® HCP RAILCAR VIBRATOR

The NAVCO© Hopper Car Portable (HCP) Railcar Vibrator is a pneumatic piston vibrator designed to provide reliable and effective bulk material flow in difficult applications and harsh rail side environments. The size and operating characteristics of the HCP make it ideal for solving railcar unloading problems such as bridging, rat-holing, and sticking material. Meticulously designed, the HCP Railcar Vibrator is available in multiple sizes to meet both light and heavy duty operations.

Unload Railcars Quickly and Safely

Industries:
Railcars are used to move bulk materials to plants and facilities for use in making the products and goods used in almost all aspects of modern life. Agriculture, Energy, Mining, Cement, Chemical, Plastics, Food, and m any other industries all use railcars to move their materials. HCP Railcar Vibrators help keep bulk materials flowing into these industries to produce the products you use every day.

Easily Incorporated into Rail Side Work Flows:
Pneumatically (air) driven, these piston style vibrators are easily incorporated into unloading processes that already use pneumatic power to drive their other rail side equipment.

65 Years of Experience on the Track, Always made in the USA:
Made in the USA, the NAVCO HCP Railcar Vibrator was introduced in 1955. Since that time, NAVCO HCP Railcar Vibrators have helped unload hopper cars at rail side terminals across the US and around the world.

Tough Two-Piece Construction:
Two-Piece design allows for specialized construction materials that optimize the HCP's durability and wear life.

PTFE Internal Coating:
Rail side unloading of bulk material can be a harsh environment for vibratory equipment. Dust in the air from moving aggregate, concrete, coal, and other materials can find its way into just about everything. To help combat this material intrusion into the vibrator and allow for an extended operating life, HCP Railcar Vibrators are manufactured with an internal low friction coating. Because railcar vibrators often operate in harsh environments, the special coating is standard on every HCP Railcar Vibrator.

Railcar Manufacturer Recommended Low-Frequency Vibrator:
High-frequency vibrators can be destructive to railcars and as a result, railcar manufacturers often discourage their use on their hopper cars. Some companies even go so far as to label the dovetail brackets on their railcars with warnings against using high-frequency vibrators. NAVCO HCP Railcar Vibrators run at low-frequency, ensuring the integrity of the railcar and compatibility with railcar manufacturer recommendations.

Lift Cart:
NAVCO Lift carts assist operators in placing and removing HCP Railcar Vibrators into and out of the universal mounting brackets found on railcar hoppers. These carts are available in a lever style as well as a mechanical style with a rack and pinion system.

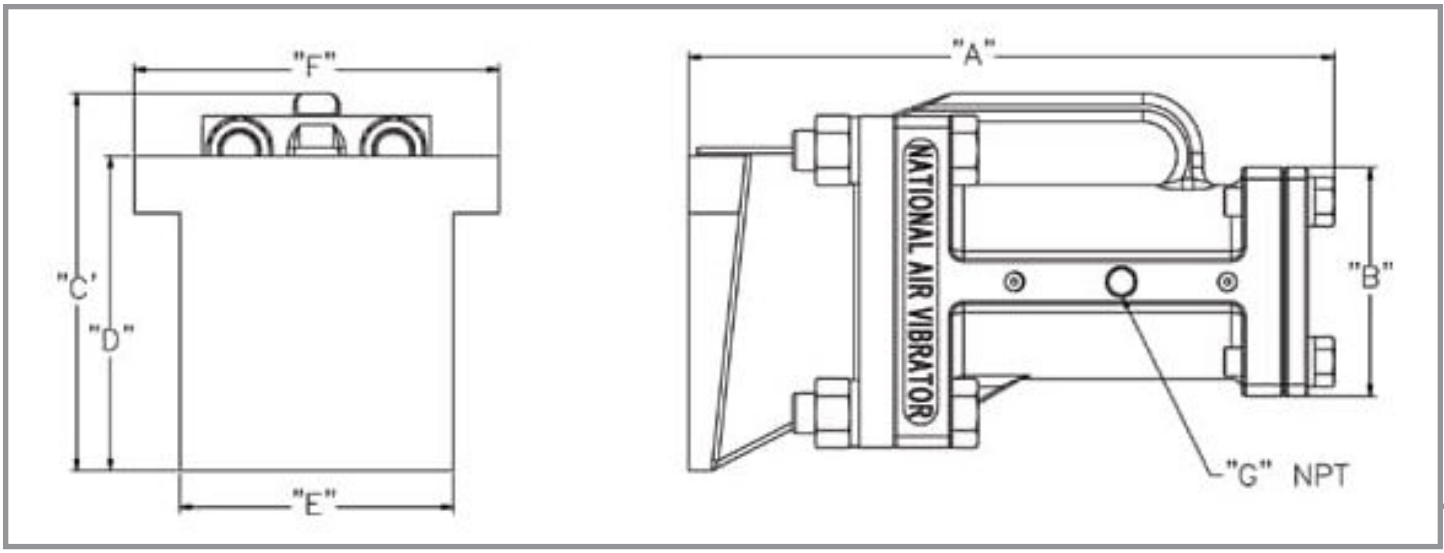
Increase Employee Safety:
Increase safety by retiring hammers and the need to enter railcars from the unloading process. HCP Railcar Vibrators solve material flow problems without the need for direct personnel interface with the railcar. By adding an HCP Railcar Vibrator to the unloading process, these higher risk situations become a thing of the past. The HCP is able to provide the necessary vibration needed to breakup even the toughest of material flow issues while keeping employees safe.

Free Ride Design Makes Unloading Railcars Easy

Stay a Step Above:
Designed specifically for the universal dovetail bracket found on most railcars, the free ride design allows the HCP to sit loose in the bracket. This allows the vibrator to continuously work at its optimal capacity and keeps it from lodging itself into the bottom of the bracket. It also enables quicker movement from bracket to bracket as the HCP doesn't need sledge hammers or air flow reversal to be removed and can be lifted out quickly.

Don't Push Aside the Problem, Knock it Out:
When vibrators move down to the bottom of the bracket, they no longer provide hard hitting vibration. Instead, the vibrator and railcar become one object moving together, greatly reducing the ability to eliminate material flow problems. The vibrator is no longer hitting the railcar, it is just pushing on it. By staying loose in the bracket with NAVCO's Free Ride Design, the HCP is given the space to move back and forth within the bracket. This allows for the HCP to utilize its full mass to create a hammer like impact on both strokes of the piston. This hard-hitting movement generates material moving impacts.

HCP RAILCAR VIBRATOR GENERAL ARRANGEMENT



Model*	A	B	C	D	E	F	G	Weight (lbs)	Air Consumption (SCFM @ 50 PSI)
HCP 2.00	11 3/4"	3 1/4"	11"	7"	6 1/8"	8"	1/4"	42	8
HCP 3.00	14 1/4"	5"	8"	7"	6 1/8"	8"	3/8"	72	14
HCP 3.L0	16 1/2"	5"	8"	7"	6 1/8"	8"	3/8"	80	18
HCP 4.00	16 1/4"	8"	9 1/4"	7"	6 1/8"	8"	1/2"	115	26

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