



# HCV SERIES RAILCAR SHAKERS

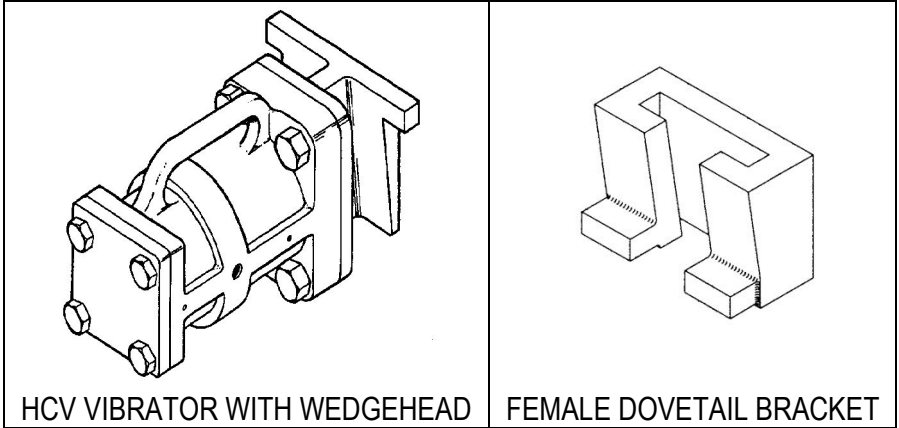
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## *Installation & Operation Manual*

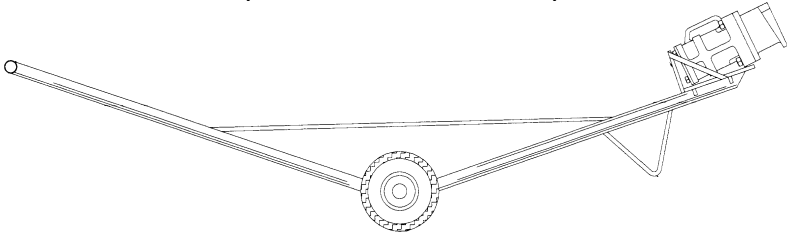


# GENERAL INFORMATION

All HCV Series Railcar Shakers include the wedgehead mount for use with female dovetail brackets found on hopper bottom railcars.



The HCV includes a lifting handle for manually moving and placing the vibrator on the railcar. An HCV Cart is available from Houston Vibrator to make this process easier for the operator:



## VIBRATOR DATA

MODEL	FREQUENCY (VPM)	AIR CONSUMPTION (SCFM)
HCV-312 IMP	3300	11.5
HCV-312 AC	1825	13
HCV-350 IMP	3450	15
HCV-350 AC	2450	14
HCV-350 LONG IMP	2400	13.4

*\*All Performance Data obtained at 85 p.s.i.  
Frequency & Air Consumption decrease at lower operating pressure*

# INSTALLATION

As with any pneumatic piston vibrator, clean, lubricated air is required, and supply air pressure should be regulated between 40 and 80 p.s.i. for most railcar unloading applications.

Your installation must include an air filter, air lubricator, and pressure regulator, and a manual on/off valve. You will also need pneumatic hose rated for at least 100 p.s.i., and hose fittings. Each of these items is available from Houston Vibrator.

# OPERATION

Before running the HCV Series Railcar Shaker for the first time, be sure to fill your lubricator reservoir, and make sure that your air pressure is regulated between 40 and 80 p.s.i.

**CAUTION: OPERATION OF VIBRATOR WITHOUT LUBRICANT, AIR FILTER, OR AT PRESSURES OUTSIDE OF THE RECOMMENDED RANGE CAN DAMAGE THE VIBRATOR, AND WILL VOID YOUR WARRANTY.**

Houston Vibrator recommends the use of Marvel Mystery Oil® for lubrication of your HCV Series Railcar Shaker. During cold weather operation, anti-freeze or kerosene can be added to the lubricant to prevent the airline from freezing.

To use your HCV Series Railcar Shaker, insert the male wedgehead mount on the vibrator into the female dovetail bracket on the railcar discharge. Turn on the air to the vibrator. Using the pressure regulator, adjust the pressure to the lowest setting needed to fluidize your material.

Once car is empty, turn off the air pressure and remove the vibrator from the dovetail bracket.

**NOTE: HCV SERIES VIBRATORS WEIGH APPROXIMATELY 75 POUNDS. USE PROPER LIFTING TECHNIQUES AND PROTECTIVE GEAR TO PREVENT INJURY.**


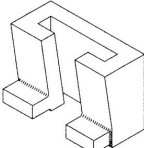
# MAINTENANCE

To ensure proper operation and long service life, perform the following maintenance steps on a periodic basis:

- Check for adequate pressure and volume of air supply
- Check lubricant level in lubricator and refill if needed
- Check air line filter and drain bowl to remove water and other contaminants from the air line
- Inspect and tighten air connections
- Tighten mounting head bolts which may loosen during use
- If vibrator is not used for long periods of time, make sure that the interior of the unit is well lubricated to prevent rust and seizing of the piston.

# ACCESSORIES

The following items are available from Houston Vibrator:

	<b>AIR PREPARATION COMPONENTS</b>
	<b>HOSE CONTROL ASSEMBLIES</b>
	<b>HCV CARTS</b>
	<b>MOUNTING KITS</b>