

Pneumatic Piston Vibrators

Operation and Construction

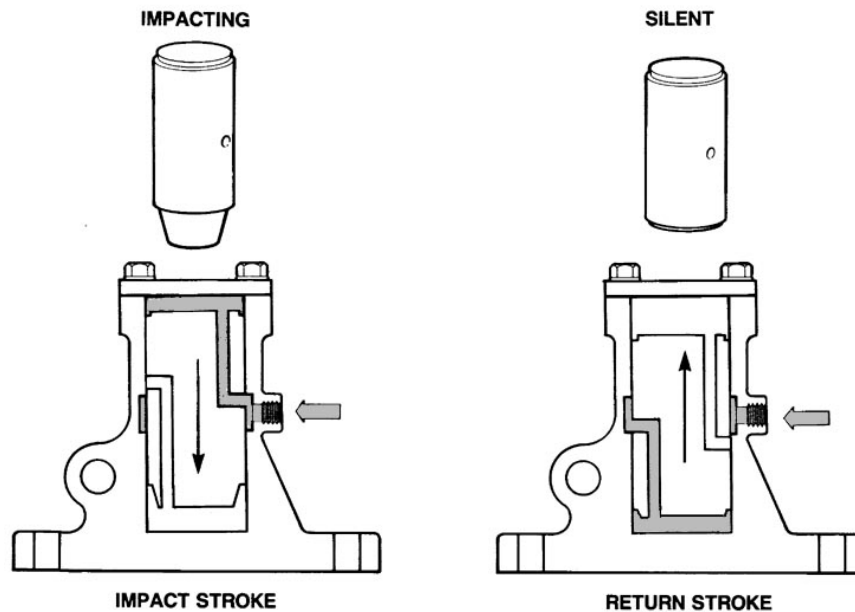
NAVCO[®] manufactures over 70 different Pneumatic Vibrators to be applied in all phases of Bulk Material Handling. All **NAVCO**[®] Pneumatic Piston Vibrators are constructed using housings cast from special ductile iron for maximum stress factors.

NAVCO[®] Pneumatic Vibrators are available for operation in two modes with the distinction being frequency range. These are the Repetitive Operating Mode and Single Timed-Impact Mode.

REPETITIVE MODE

In a **NAVCO**[®] Repetitive Operating Vibrator, piston ports alternately direct air pressure from one end of the housing to the other creating movement of the piston. This moving mass at some frequency creates vibration. An air cushion is trapped at the Head plate on the return stroke to reduce stress. The forward stroke may be either "Impacting" or "Silent". In the Silent models, the Piston is air-cushioned at both ends. The Impacting model is base-biased and actually produces metal-to-metal contact at the Base Plate. For frequency and sound level data for each model see Bulletin No. 4000.302. Variable frequency and amplitude is obtained by regulating the air pressure from 20 to 60 P.S.I.

Note: Operating **NAVCO**[®] Pneumatic Piston Vibrators at air pressures over 60 P.S.I. can result in damage to the Vibrator. Pneumatic Piston Vibrators must have adequate lubrication. For Lubrication Recommendations see Bulletin No. 4000.503.

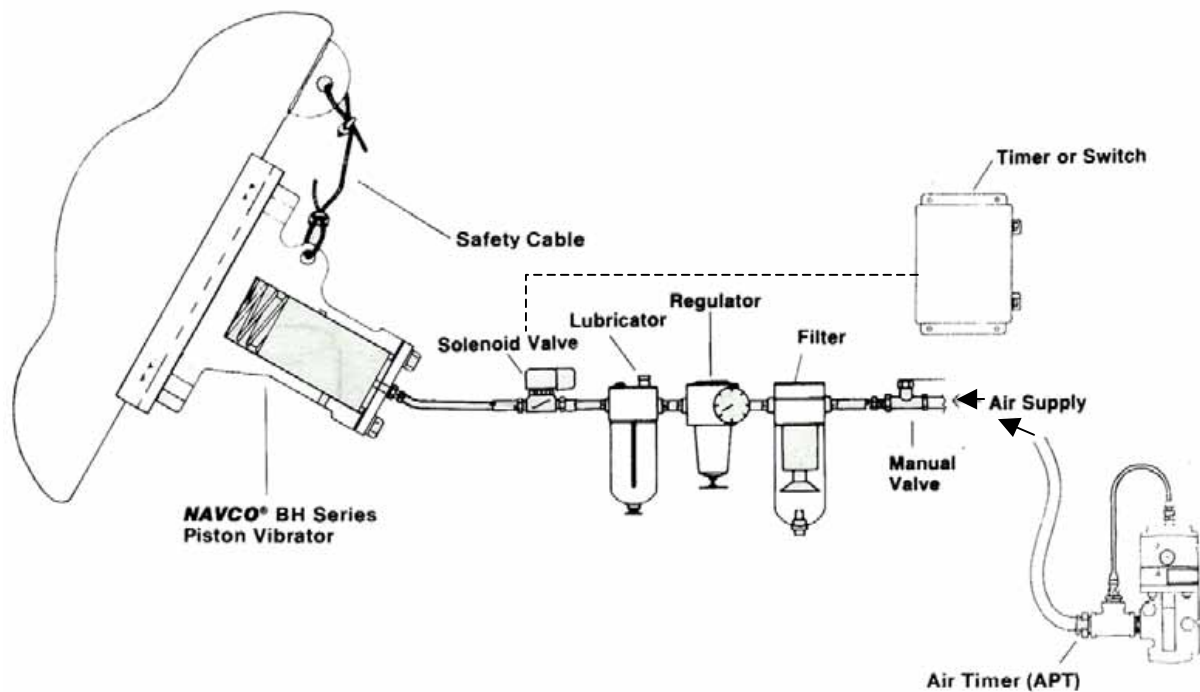


SINGLE TIMED-IMPACT

Most **NAVCO**[®] Pneumatic Vibrators are available in a single Timed-Impact mode. In these models, the air inlet is in the Head Plate and the piston is spring-returned. This allows for a single impact to be timed using a Pneumatic Timer* or a Solid State Timer**. When using a Solid State Timer, a Solenoid Valve is required to operate the vibrator. When using a Pneumatic Timer, no additional valves are required. Single Timed-Impact models allow a single cycle with each actuation. Maximum frequency is 30 cycles/minute.

*see Bulletin No. 3000.102

** see Bulletin No. 3000.101



Typical Single Timed Impact Vibrator Installation

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