

Lubrication Recommendations

Pneumatic Piston Vibrators

NAVCO recommends an oil-fog type lubricator to be used with **NAVCO** Pneumatic Piston Vibrators. It is important that the lubricator be properly selected for the operating conditions of the vibrator. Contact your NAVCO sales representative for help with proper lubricator selection.

The oil-fog type lubricator, when used with the vibrator, should be installed using air hose of approximately 5 ½ feet connected directly to the vibrator. The hose connection prevents excessive vibration from being transmitted to the lubricator. **NOTE:** The lubricator should not be mounted on the structure or device to which the vibrator is mounted. The lubricator should be installed at the same height as the vibrator or higher to ensure that the oil remains atomized in the air stream and is delivered completely to the vibrator.

Before initial start-up of the vibrator, it is recommended to disconnect the hose from the lubricator and directly insert lubrication fluid into the hose (¼ to ½ cup of lubrication fluid should be sufficient). This will 'prime' the vibrator at start-up.

The oil-fog type lubricator should be set at approximately 10 drops per minute during operation (observable through the sight glass). After the vibrator has run for roughly five minutes, a simple check will help determine if the level of lubrication is sufficient. Place your hand about 1 inch from any exhaust port on the vibrator for 15 to 30 seconds. A fine film of oil should be deposited on your hand. If not, increase the 'drops per minute' on the lubricator until this condition occurs.

A sight glass is normally provided on the lubricator to indicate the level of lubrication fluid in the lubricator reservoir. This sight glass should be checked periodically and refilled as required.

*THE VIBRATOR SHOULD NEVER BE ALLOWED TO OPERATE WITHOUT LUBRICATION FLUID

A quality grade high-duty low viscosity, low sludge residue, air percussion tool, ISO 32 lubricant or 10 W motor oil, is the preferred type for NAVCO Pneumatic Vibrators. There are several commercially available lubricants that possess the required lubrication characteristics with other additives for special properties. (*See note below). Typical products that can be used are:

***NOTE: We highly recommend Royal Purple Synthetic ISO 32 or equivalent**

BRAND NAME	TYPES
MOBIL	84SSU DTE11, DTE24, DTE25 & DTE 26
TEXACO	Spindura 22, Rando HD32, HD48, HD88
SHELL	Tellus S2 M
SOHIO	Energol HLP 22, 32, 46, &68
EXXON	Spinestic 22, Nuto H32, H46, H68

APPLICATION RECOMMENDATIONS

Temperature of Vibrator Housing

-50 to 75 Degrees F	Shell Tellus S2 M mixed with 5% Kerosene
75 to 200 Degrees F	Shell Tellus S2 M
200 Degrees F and up	MoS ₂ Light spray application on piston at regular intervals in conjunction with original Shell Tellus S2 M

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