

Vibration Limits For Rotating Machinery

Because of the wide variety of machine designs, there are no absolute criteria or guarantees. But properly corrected limits should significantly reduce unscheduled outages.

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Vibration levels are often a direct indicator of a rotating machine's operating condition. High vibration amplitudes or changing vibration amplitude patterns can be a sign of impending equipment failure; in other cases they can provide important clues to the cause of a machine's deterioration.

Vibration measuring equipment is commonly employed on rotating machinery to identify characteristic levels and trends. For this instrumentation to achieve its purpose, it must measure amplitudes and frequencies that are truly indicative of the machinery's condition. These amplitudes and frequencies must, in turn, be compared with standard reference values.

The problem faced by maintenance personnel is to quickly and reliably sort out vibration trends that might be indicators of trouble. A common strategy is to institute inspection programs that monitor overall vibration levels on a regular basis. While this approach has had some success in avoiding unexpected outages or unnecessary overhauls of healthy equipment, it cannot be counted on to indicate all vibration problems. Costly, unnecessary maintenance shutdowns can occur when a criterion is over

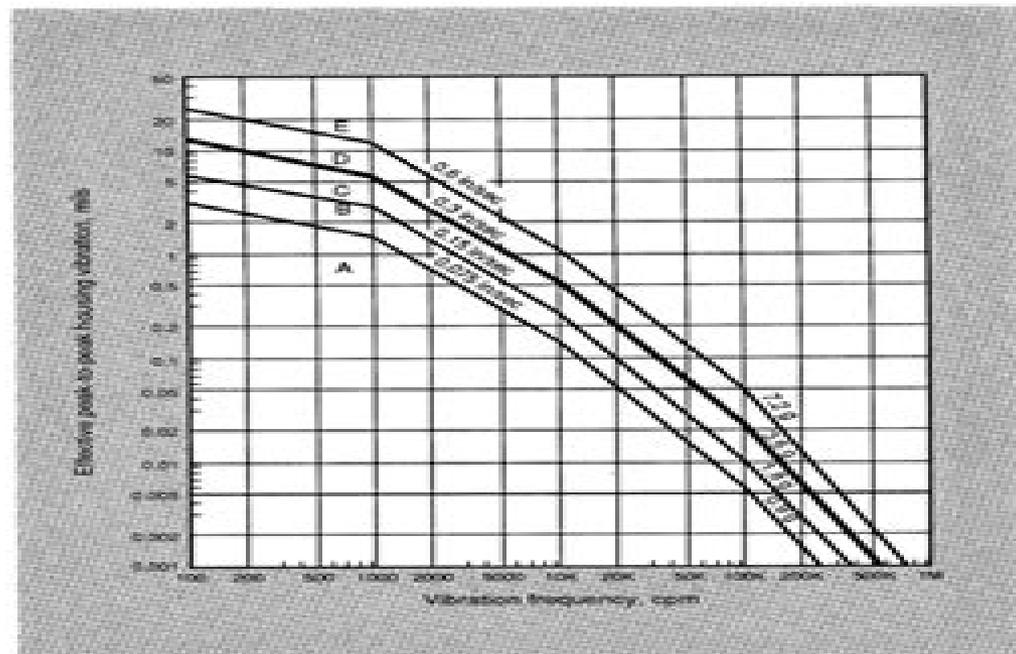


Figure 1. Vibration Limits for Bearings.

Vibration In Rotating Machinery

Emilie Sanchez



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