



Vibration Tester

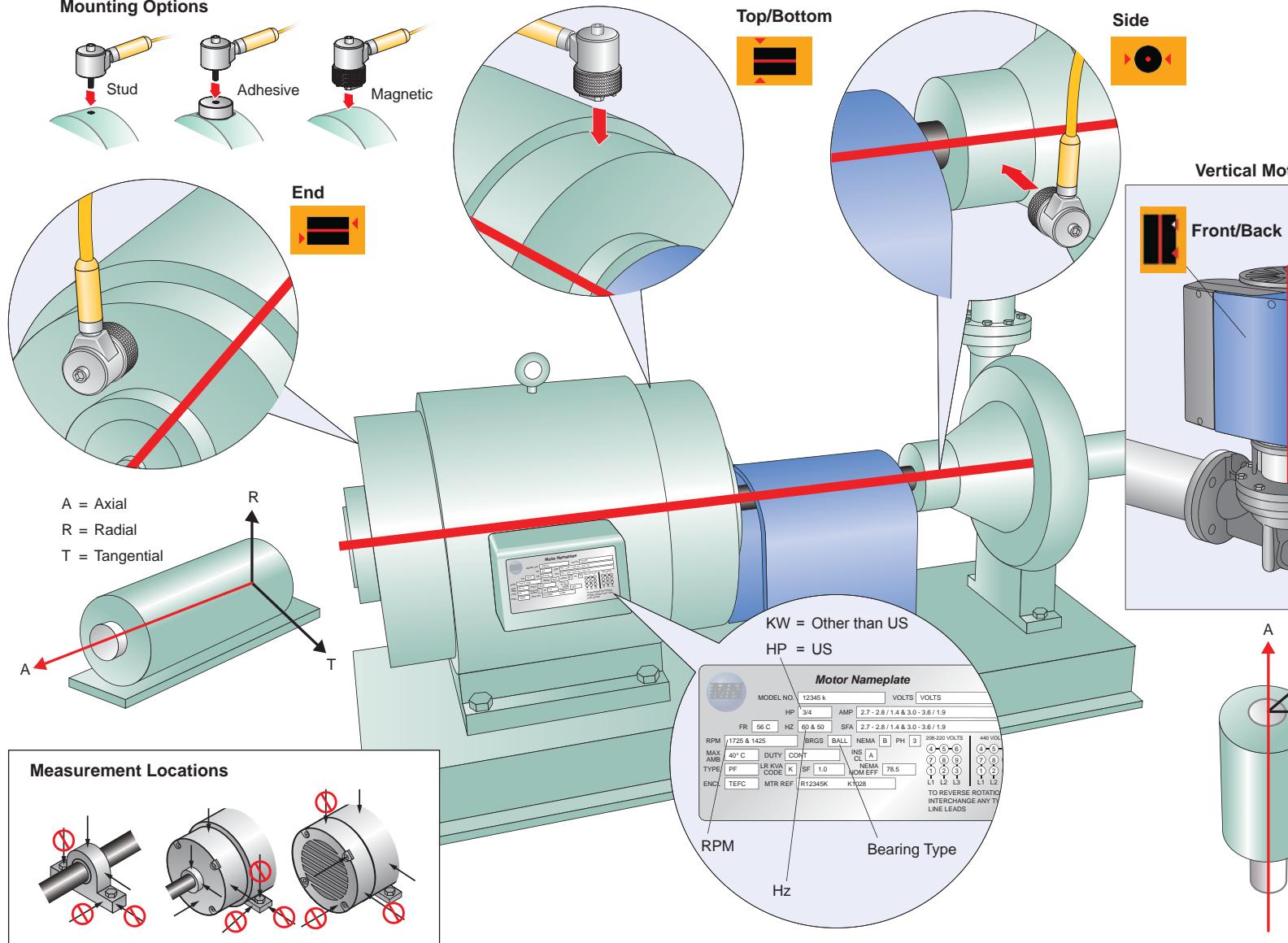
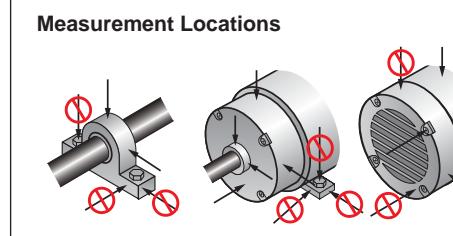
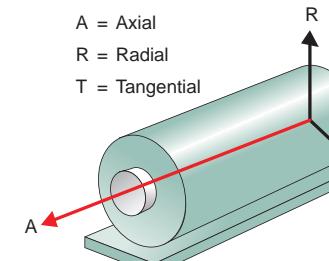
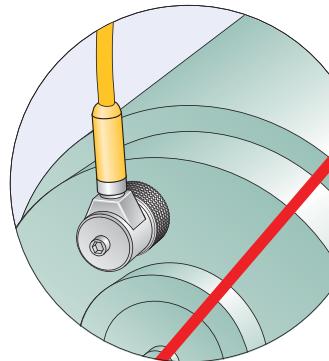
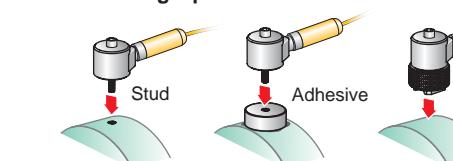
FLUKE

810

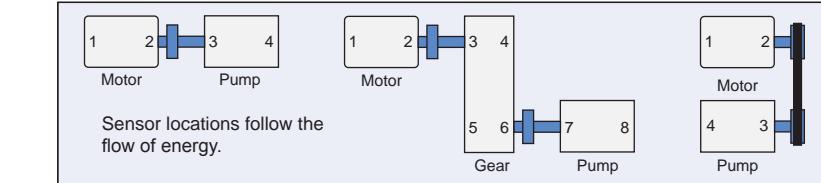
Quick Reference Guide

Sensor Placement and Orientation

Mounting Opti



Sensor Location Numbering



Measurement Tips

- If the driving motor has >40 HP (29.8 kW) and is >40 inches (101.6 cm), take two measurements from each component in the drive train. If not, one measurement per component is sufficient.
- Place the triaxial Sensor on a solid metal surface (not fan shrouds or cooling fins) as close to the machine bearings as possible. Use the same locations and Sensor orientations over time to ensure consistent diagnoses.
- Attach the Sensor to a clean, flat, bare metal surface if possible.
- Sensor position should be parallel or perpendicular to the floor whenever possible.
- Hold the Sensor firmly and carefully roll the Sensor onto the test surface to minimize the potential for impact.

Severity Scale



Q1 14

Slight No repair action is recommended. Retest the machine and monitor the condition after maintenance.

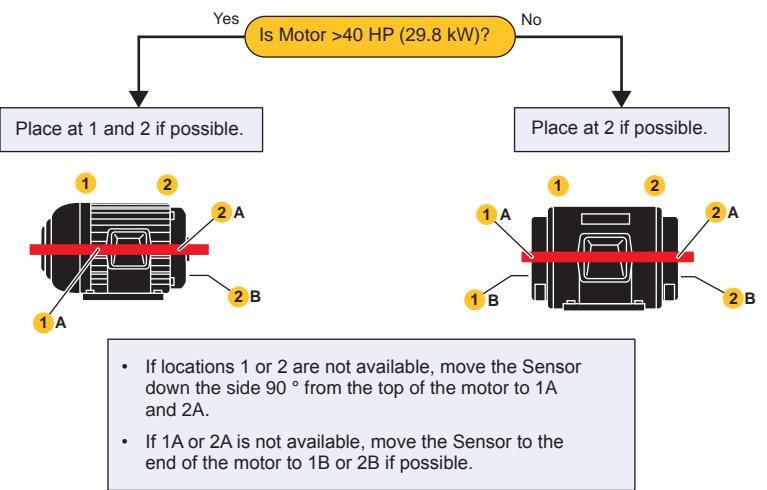
Moderate	(Months, even up to a year) – No immediate repair action is required. Increase the frequency of measurements and monitor the condition of the machine.
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Serious	(Weeks) – Take maintenance action during the next planned downtime or maintenance period.
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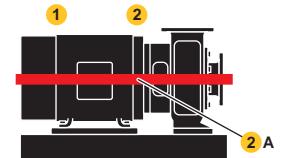
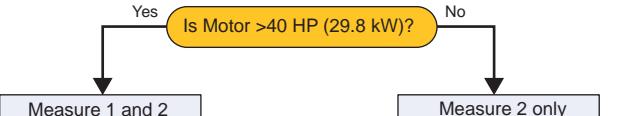
Extreme (Days) – Immediate action is required. Consider shutting down the equipment and taking repair action now to avoid failure.

Motor Input (Driver)

Coupled Motors

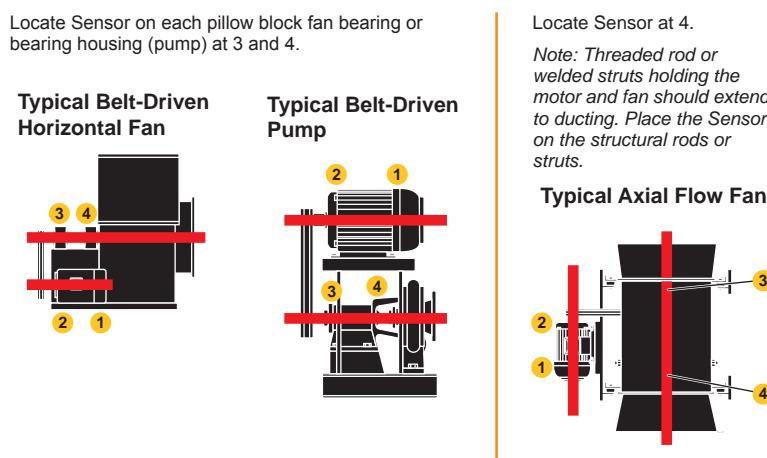


Motor Close-Coupled Pumps and Fans



Transmission

Belt/Chain Driven Machines

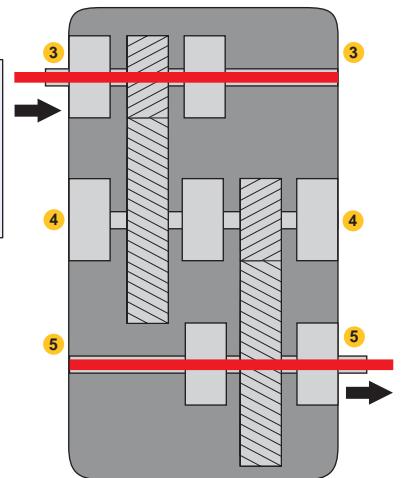


Gearbox

Double-Reduction Gear Internal View

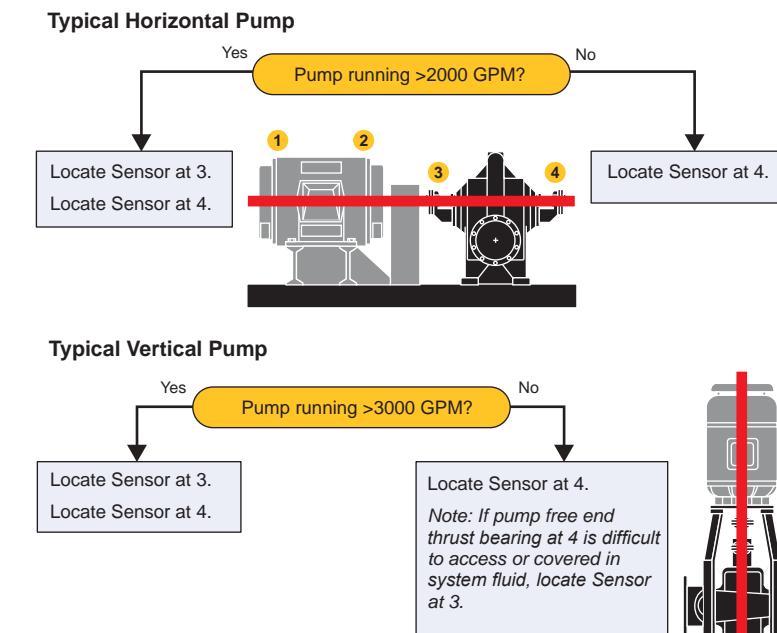
Preferred locations:

- 1st bearing on the input shaft, preferably thrust bearing at 3.
- Last bearing on the output shaft at 5.

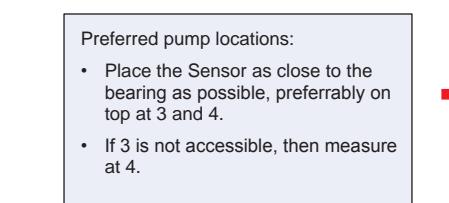


Driven Components

Centrifugal Pumps



Compressor Single Stage (Screw)



Fans

