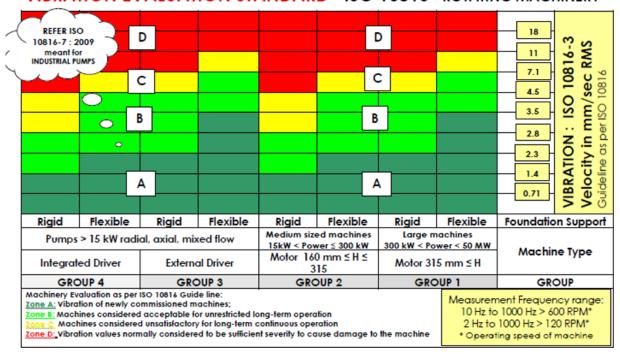
VIBRATION EVALUATION STANDARD - ISO 10816- ROTATING MACHINERY



ISO Groups 1-4 classifications define the following types of machinery:

Group 1

Large machines (rated power above 300kW) with a shaft height greater than 315 mm. These machines are normally equipped with sleeve bearings.

Group 2

Medium-sized machines (rated power from 15 kW to 300 kW) and electrical machines with a shaft Height between 160 and 315 mm.

These machines are normally equipped with rolling element bearings.

Group 3

Pumps with multi-vane impeller and with separate driver with rated power above 15 kW.

Group 4

Pumps with multi-vane impeller and with integrated driver with rated power above 15 kW.

Evaluation ranges

For evaluation of the machine health from vibrations there are defined following evaluation ranges.

- Range A: New machine vibrations should occasionally be in this range.
- Range B: Machines in this range can be operated for unlimited period.
- **Range C**: Machines in this range are not acceptable for a long period operation, they could be Operated till the repair time only.
- **Range D**: Vibration values in this range are considered as very dangerous as they can cause a Damage of the machine