

Vibration Iso 10816-3 Pdf Free Download Iso 10816-3 24

The following table is a summary of the machine types covered in ISO 10816-3. This part of the standard also gives values for machines either rigidly or flexibly mounted. It also gives corresponding vibration displacement limits.

It does apply a larger range limit in the B range, so is more useful in practice, but the examples given are larger machines or pumps, but can be applied to other machine types, so in practice you may have to pick and choose between different parts of the standard.

| General Rotating Machines – ISO 10816-3 | | | Limits | | | | |
|---|---|----------|----------------------|-------------------|-----------|------------|-------|
| Class | Comments | units | A | B | C | D | |
| Group 1 | Large machines with rated power above 300 kW; electrical machines with shaft height $H > 315$ mm. These machines normally have sleeve bearings. The range of operating or nominal speeds is relatively broad and ranges from 120 rev/min to 1500 rev/min. | Rigid | $\mu\text{m r.m.s.}$ | <29 | 29 - 57 | 57 - 90 | >90 |
| | | | mm/s r.m.s. | <2,3 | 2,3 - 4,5 | 4,5 - 7,1 | >7,1 |
| | | Flexible | $\mu\text{m r.m.s.}$ | <45 | 45 - 90 | 90 - 140 | >140 |
| | | | mm/s r.m.s. | <3,5 | 3,5 - 7,1 | 7,1 - 11,0 | >11,0 |
| Group 2 | Medium-size machines with a rated power above 15 kW up to and including 300 kW; electrical machines with shaft height $160 \text{ mm} \leq H < 315$ mm. These machines normally have rolling element bearings and operating speeds above 600 rev/min. | Rigid | $\mu\text{m r.m.s.}$ | <22 | 22 - 45 | 45 - 71 | >71 |
| | | | mm/s r.m.s. | <1,4 | 1,4 - 2,8 | 2,8 - 4,5 | >4,5 |
| | | Flexible | $\mu\text{m r.m.s.}$ | <37 | 37 - 71 | 71 - 113 | >113 |
| | | | mm/s r.m.s. | <2,3 | 2,3 - 4,5 | 4,5 - 7,1 | >7,1 |
| Group 3 | Pumps with multivane impeller and with separate driver (centrifugal, mixed flow and axial flow) with rated power above 15 kW. Machines of this group may have sleeve or rolling element bearings. | Rigid | $\mu\text{m r.m.s.}$ | <18 | 18 - 36 | 36 - 56 | >56 |
| | | | mm/s r.m.s. | <2,3 | 2,3 - 4,5 | 4,5 - 7,1 | >7,1 |
| | | Flexible | $\mu\text{m r.m.s.}$ | <28 | 28 - 56 | 56 - 90 | >90 |
| | | | mm/s r.m.s. | <3,5 ³ | 3,5 - 7,1 | 7,1 - 11,0 | >11,0 |
| Group 4 | Pumps with multivane impeller and with integrated driver (centrifugal, mixed flow and axial flow) with rated power above 15 kW. Machines of this group mostly may have sleeve or rolling element bearings. | Rigid | $\mu\text{m r.m.s.}$ | <11 | 11 - 22 | 22 - 36 | >36 |
| | | | mm/s r.m.s. | <1,4 | 1,4 - 2,8 | 2,8 - 4,5 | >4,5 |
| | | Flexible | $\mu\text{m r.m.s.}$ | <18 | 18 - 36 | 36 - 56 | >56 |
| | | | mm/s r.m.s. | <2,3 | 2,3 - 4,5 | 4,5 - 7,1 | >7,1 |

Table 4 – ISO 10816-3 Vibration Limits for General Rotating Machines

Note how this particular International Standard gives both velocity and displacement limit values.

Table 3 and 4 are used in the examples following of applying Vibration Severity limits to a selection of machines in the Tasks 1 to 6.

Bear in mind that the standards are for guidance and you can select a different class or group than those suggested.

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