
**Plain bearings — Hydrostatic
plain journal bearings without
drainage grooves under steady-state
conditions —**

**Part 2:
Characteristic values for the calculation
of oil-lubricated plain journal bearings
without drainage grooves**

*Paliers lisses — Paliers lisses radiaux hydrostatiques sans rainure
d'écoulement fonctionnant en régime stationnaire —*

*Partie 2: Caractéristiques du calcul pour la lubrification des paliers
lisses radiaux sans rainure d'écoulement*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 123, *Plain bearings*, Subcommittee SC 8, *Calculation methods for plain bearings and their applications*.

This second edition cancels and replaces the first edition (ISO 12168-2:2001), of which it constitutes a minor revision. The changes compared to the previous edition are as follows:

- adjustment to ISO/IEC Directives, Part 2:2018;
- correction of typographical errors.

A list of all parts in the ISO 12168 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Plain bearings — Hydrostatic plain journal bearings without drainage grooves under steady-state conditions —

Part 2:

Characteristic values for the calculation of oil-lubricated plain journal bearings without drainage grooves

1 Scope

This document lists, in graphic form, characteristic values used in the calculation of oil-lubricated plain bearings without drainage grooves.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Characteristic values

The characteristic values are shown in [Figures 1](#) to [19](#) and [Table 1](#).

The characteristic values given in this document are necessary for the calculation of oil-lubricated hydrostatic plain journal bearings in accordance with ISO 12168-1. They are based on the premises and boundary conditions specified therein. The values required for the calculation can be determined from the diagrams. Explanations concerning the symbols and calculation examples are included in ISO 12168-1. When designing a plain bearing, the characteristic values listed in [Table 1](#) can be used for optimized bearings.