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Plain bearings — Lubrication holes, grooves and pockets — Dimensions, types, designation and their application to bearing bushes

Paliers lisses — Trous, rainures et poches de graissage — Dimensions, types, désignation et leurs applications dans les bagues

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Foreword

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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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This document was prepared by Technical Committee ISO/TC 123, *Plain bearings*, Subcommittee SC 3, *Dimensions, tolerances and construction details*.

This third edition cancels and replaces the second edition (ISO 12128:2001), which has been technically revised. The main changes to the previous edition are as follows:

— dimension units added to tables;

— Bibliography added and ISO 4379 and ISO 4383 moved from Clause 2 to the Bibliography;

— references corrected.

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Plain bearings — Lubrication holes, grooves and pockets — Dimensions, types, designation and their application to bearing bushes

1 Scope

This document specifies dimensions for lubrication holes, grooves and pockets for bearing bushes. These dimensions can be entered, for example on drawings, using the designation examples. Their use depends in particular on the specific operating conditions.

In addition, it enables the user to assign the different types of lubricant feed and distribution to solid and steel-backed plain bearing bushes made of copper alloys, aluminium alloys, thermosetting plastics, thermoplastics or artificial carbon.

NOTE Different types of lubricant feed and distribution for plain bearing bushes made of sintered metals have not been specified due to the fact that these bushes are soaked with lubricant. Plain bearing bushes made of artificial carbon are not lubricated with oil or grease.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

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 Dimensions, types and designation

4.1 General

The dimensions of the lubrication holes, grooves and pockets are related to the bearing wall thickness s. The given diameter d_1 shall only serve as an auxiliary dimension.

4.2 Lubrication holes

4.2.1 Dimensions and types

Dimensions and types of lubrication holes shall be in accordance with Figure 1.

Lubrication holes may be provided in conjunction with lubrication grooves and pockets, or, if the requirement to be met by a lubrication point is less stringent, even without these.

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