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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 7809-2017

Replacing GB/T 7809-1995

Rolling bearings -- Housings for insert bearings -- Boundary dimensions

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 7809-1995 "Rolling bearing outer spherical ball bearing housing dimensions", and GB/T 7809-1995 phase

The main technical changes are as follows.

--- Added and revised some normative references (see Chapter 2, Chapter 2 of the.1995 edition);

--- Modified the font of the symbol (see Chapter 4, Chapter 4 of the.1995 edition);

--- Added "code" chapter, "marking example" chapter (see Chapter 5, Chapter 6);

--- Revised the upper limit of the hole width N of the 2 series cast vertical seat bolts (see Table 1, Table 1 of the.1995 edition);

--- Revised the dimensions of the 3 series cast vertical seat and moved it to the standard text (see Table 2, Appendix A of the.1995 edition);

---Modified the upper limit of the hole width N of the 2 series cast square seat bolts (see Table 3, Table 2 of the.1995 edition);

--- Revised the dimensions of the 3 series cast square seat and moved it to the standard text (see Table 4, Appendix B of the.1995 edition);

--- Revised the upper limit of the hole width N of the 2 series casting diamond seat and expanded the size range (see Table 5, Table 3 of the.1995 edition);

--- Revised the dimensions of the 3 series casting diamonds and moved them to the standard text (see Table 6, Appendix C of the.1995 edition);

---Modified the model of the cast slider base, the lower limit of the width A1 of the 2 series casting slider seat positioning groove and expanded the size range (see

Table 7, Table 6 of the.1995 edition;

--- Revised the dimensions of the 3 series casting diamonds and moved them to the standard text (see Table 8, Appendix D of the.1995 edition);

--- Expanded the size range of the 2 series stamped diamond seats (see Table 10, Table 5 of the.1995 edition);

--- Increased the external dimensions of the F200 cast square seat (see Appendix A);

--- Increased the external dimensions of the FL200 casting diamond seat (see Appendix B);

--- Expanded the size range of the 2 series casting ring seat (see Appendix D, Appendix F of the.1995 edition).

This standard uses the redrafting method with reference to ISO 3228.2013 "Rolling bearing outer spherical ball bearing casting seat and stamping seat profile

Dimensions and Tolerances are compiled and are not equivalent to ISO 3228.2013.

This standard was proposed by the China Machinery Industry Federation.

This standard is under the jurisdiction of the National Rolling Bearing Standardization Technical Committee (SAC/TC98).

This standard was drafted. Luoyang Bearing Research Institute Co., Ltd., Fanke Bearing Group Co., Ltd., Zhejiang Xinchang Peel Bearing Co., Ltd.

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1 Scope

This standard specifies the outer dimensions of the casting seat and the stamping seat for the outer spherical ball bearing. The outer dimensions of the outer spherical ball bearing are specified in

GB/T 3882.

This standard applies to vertical seats, flange seats, slider blocks and ring seats.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 3882 rolling bearing outer spherical ball bearing and eccentric sleeve dimensions

GB/T 6930 rolling bearing vocabulary

GB/T 7811 rolling bearing parameter symbol

GB/T 27554 rolling bearing with seat ball bearing code method

3 Terms and definitions

The terms and definitions defined in GB/T 6930 apply to this document.

4.1 General

The symbols given in GB/T 7811 and 4.2 to 4.7 apply to this document.

Unless otherwise stated, the symbols shown in Figures 1 through 6 (except for tolerance symbols) and the values listed in Tables 1 through 10 all indicate nominal dimensions.

Note. Figures 1 to 6 are only schematic diagrams and do not show all the structural details. The position of the lubrication nozzle shown in Figures 1 to 4 is only an example, and the manufacturer can also

Use other locations.

4.2 Casting vertical seat

See Figure 1 and Table 1, Table 2.

A. seat bottom width (total width)

Da. bearing seat spherical diameter

H. distance from the mounting plane to the center line of the spherical diameter

H1. base height

J. bolt hole center distance

L. base length (total length)

N. bolt hole width

N1. bolt hole length

4.3 Casting flange seat, square

See Figure 2 and Table 3, Table 4.

A. Height (total height)

A1. flange thickness

A2. Distance from the mounting plane to the center line of the spherical diameter

Da. bearing seat spherical diameter

J. bolt hole center distance

L. length (total length)

N. bolt hole diameter

4.4 Casting flange seat, diamond shape

See Figure 3 and Table 5, Table 6.

A. Height (total height)

A1. flange thickness

A2. Distance from the mounting plane to the center line of the spherical diameter

Da. bearing seat spherical diameter

H. flange length

J. bolt hole center distance

L. width (total width)

N. bolt hole diameter

4.5 Casting Slider Block

See Figure 4 and Table 7, Table 8.

A. width (total width) (connecting end)