

ICS 21.100.20
CCS J 11



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 7813-2018

**Rolling bearings -- Split type plummer block housings --
Boundary dimensions**

Issued on: July 13, 2018

Implemented on: May 1, 2019

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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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 7813-2008 "Rolling bearing split vertical housing dimensions", and GB/T 7813-2008

The main technical changes are as follows.

--- Revised the expression of the structure type (see Chapter 5 of this edition, Chapter 4 of the.2008 edition);

--- Increased the external dimensions of the SN519 in the two-screw housing SN5 series (see Table 2);

--- Increased the external dimensions of the two-stud bearing housing SN30 and SN31 series (see Table 4 and Table 5);

--- Increased the external dimensions of the four-spindle housing SD30 series (see Table C.1);

--- Removed the structural schematic and external dimensions of the two-screw reducer type bearing housing (see Figure 2 and Table 3 to Table 4 of the.2008 edition);

--- Revised the applicable spherical roller bearing model (see Table 2, Table 3, Table 6 to Table 8 and Table C.2~ Table C.3;.2008 edition)

Table 1 to Table 5 and Table A.1 to Table A.2);

--- Increased the way the bearing and housing are installed (see Appendix A);

--- Revised the structure diagram of the positioning ring for the bearing housing (see Appendix B, Appendix B of the.2008 edition).

This standard uses the redrafting method with reference to ISO 113.2010 "Rolling bearing vertical housing dimensions", and ISO 113.

The degree of consistency in.2010 is non-equivalent.

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., Jiangsu Longda Transmission Co., Ltd., Zhongshan Yingke Bearing Manufacturing Co., Ltd.

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1 Scope

This standard specifies two-screw split vertical bearing housing and four-screw split vertical bearing seat for self-aligning ball bearings and spherical roller bearings (

The outer dimensions of the bearing housing are referred to below. The outer dimensions of self-aligning ball bearings and spherical roller bearings are specified in GB/T 281 and GB/T 288.

This standard applies to the design and selection of split vertical housings.

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 6930 rolling bearing vocabulary

GB/T 7811 rolling bearing parameter symbol

3 Terms and definitions

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

3.1

Two stud split vertical bearing block

The bearing cap has two bolts and a split bearing seat with two bolt holes on the base.
see picture 1.

3.2

Four stud split vertical bearing block

The bearing cap has four bolts and a split bearing housing with four bolt holes on the base.
See Figure 2.

4 symbol

The symbols given in GB/T 7811 and the following symbols apply to this document.

Unless otherwise stated, the symbols shown in Figure 1, Figure 2, Figure A.1 and the values shown in Tables 2 to 8, Tables C.1 to C.3 all indicate nominal terms.

size.

Note. Figures 1 to 2 are only schematic diagrams and do not show all the structural details.

A. total bearing housing width

A1. housing base width

Da. Bearing housing bore diameter

d. Applicable bearing inner diameter

D0. applicable shaft diameter

D1. outer diameter of the sleeve; inner diameter of the sleeve

G. bolt code for fixed bearing housing

g. bearing housing bore width

H. the distance from the mounting plane to the centerline diameter of the housing bore

H1. housing base height

J. bolt hole center distance (length)

J1. Bolt hole center distance (width)

L. total length of the bearing housing

N. bolt hole width

N1. bolt hole length

Figure 1 Two stud bearing housing (SN type)

Figure 2 Four stud bearing housing (SD type)

5 structure type and code

The structure type and code of the bearing housing and the applicable bearing bore type and diameter series are shown in Table 1. The bearing and housing mounting methods are as follows.

See Appendix A.

Table 1 Structure type and code of the bearing housing

Bearing housing

Structure type

Bearing block type code housing series code for bearing inner hole type applicable bearing diameter series

Two studs

Bearing housing

SN

SN5

SN6

SN30

SN31

Tapered hole

SN2

SN3

Cylindrical hole

Four studs

Bearing housing

SD

SD5

SD6

SD30

SD31