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JIS

JAPANESE INDUSTRIAL STANDARD

Rolling bearings—Designation

JIS B 1513-1995

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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Rolling bearings — Designation B 1513-1995

1. Scope This Japanese Industrial Standard specifies the rolling bearing designations for general use, among the rolling bearings (hereafter, referred to as "bearings") having boundary dimensions specified in JIS B 1512.

Remarks: The following standards are cited in this Standard:

JIS B 0104 Rolling bearings — Vocabulary

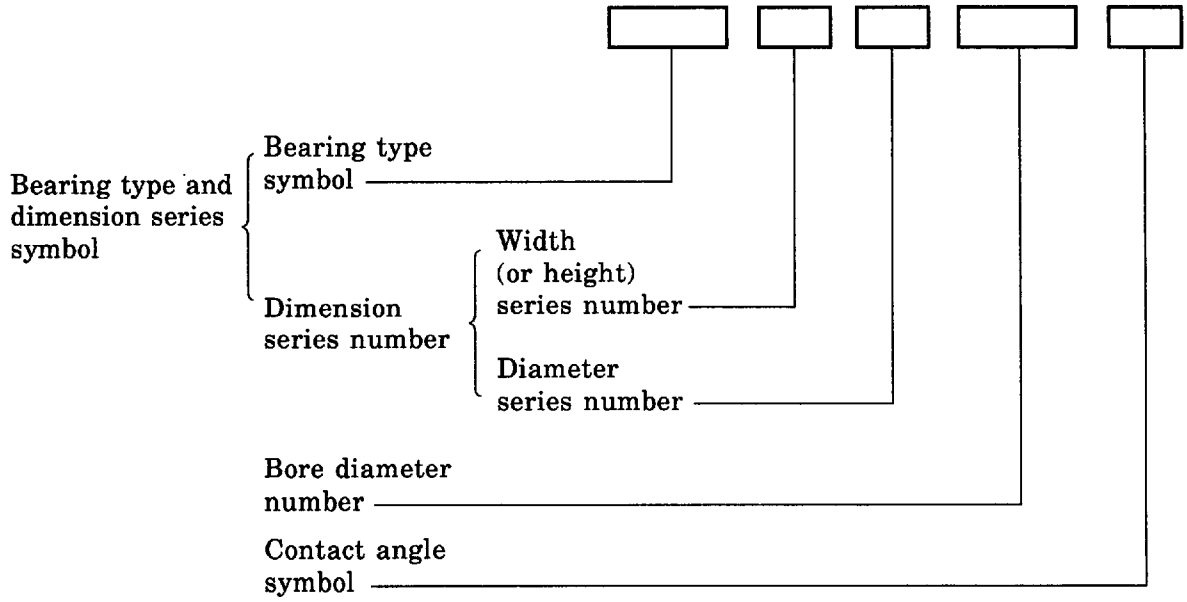
JIS B 1512 Rolling bearings — Boundary dimensions

JIS B 1514 Rolling bearings — Tolerances

JIS B 1520 Rolling bearings — Radial internal clearance

2. Definitions For the purpose of this Standard, definitions in JIS B 0104 apply.

3. Composition of designation The designation shall consist of a basic number and a supplementary number, and the composition of the basic number shall be as follows. The supplementary number, as agreed upon between the parties concerned with delivery, may be attached before and after the basic number.



4. Basic number

4.1 Bearing type and dimension series symbol The bearing type and dimension series symbol shall consist of the bearing type symbol and dimension series number, and the bearing type and dimension series symbols to be used generally shall be given in Attached Table 1.

4.2 Bearing type symbol The bearing type symbol shall be the symbol indicating the type of the bearing, and shall be composed of one letter of an arabic numeral or one letter or more of Latin letters.

Further, in the self-aligning ball bearings of 22 and 23 in dimension series, the bearing type symbols are usually omitted.

4.3 Dimension series number The dimension series number shall be composed of two letters of arabic numerals of the width series number and diameter series number.

Further, for the deep groove ball bearing, angular contact ball bearing and cylindrical roller bearing of width series number 0 or 1, the width series number may sometimes be omitted practically.

Remarks: The Latin letter C or D of dimension series number 22C, 23C or 03D of tapered roller bearing shall be treated as a contact angle symbol on account of composition of designation.

4.4 Bore diameter numbers The bore diameter numbers shall be in accordance with Attached Table 2. However, the bore diameter number of the double direction flat seat thrust ball bearing shall be the same bore diameter number of the single direction flat seat thrust ball bearing having the same diameter series and same nominal outside diameter.

4.5 Contact angle symbols The contact angle symbols shall be in accordance with Table 1.

Table 1. Contact angle symbols

Type of bearing	Nominal contact angle	Contact angle symbol
Single row angular contact ball bearings	Over 10° up to and incl. 22°	C
	Over 22° up to and incl. 32°	A (1)
	Over 32° up to and incl. 45°	B
Taper roller bearings	Over 17° up to and incl. 24°	C
	Over 24° up to and incl. 32°	D

Note (1) This may be omitted.

5. Supplementary numbers The supplementary numbers shall be in accordance with Attached Table 3.

Further, the supplementary numbers indicating the specifications of cage, sealed grease, material, heat treatment, etc. shall be as agreed upon between the parties concerned with delivery.