

SLOVENSKI STANDARD SIST ISO 3228:2015

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Nadomešča:

SIST ISO 3228:2001

Kotalni ležaji - Uliti in stiskani okrovi za vgradnjo ležajev - Mejne mere in tolerance

Rolling bearings - Cast and pressed housings for insert bearings - Boundary dimensions and tolerances

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Roulements - Logements moules et emboutis pour roulements "insert" - Dimensions d'encombrement et tolérances

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Rolling bearings — Cast and pressed housings for insert bearings — Boundary dimensions and tolerances

Roulements — Logements moulés et emboutis pour roulements "insert" — Dimensions d'encombrement et tolérances

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 3228 was prepared by Technical Committee ISO/TC 4, *Rolling bearings*, Subcommittee SC 6, *Insert bearings*.

This fourth edition cancels and replaces the third edition (ISO 3228:1993), which has been technically revised. In particular, this fourth edition has been extended. Boundary dimensions and tolerances of cast housings for diameter series 3 have been added in Tables 2, 4, 6 and 8. In addition, boundary dimensions and tolerances of larger size cast flanged housings, oval and cast take-up housings for diameter series 2 have been added in Tables 5 and 7.

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Rolling bearings — Cast and pressed housings for insert bearings — Boundary dimensions and tolerances

Scope

This International Standard specifies boundary dimensions and tolerances for cast and pressed housings for insert bearings for which boundary dimensions are given in ISO 9628[1].

It applies to plummer block housings, flanged housings and take-up housings.

The inclusion of relubrication features is optional, but when provided it is intended that they intersect the zone specified in ISO 9628[1] in such a way that lubricant satisfactorily feeds from the housing through this zone. The exact design of the relubrication features is not otherwise covered by this International Standard.

Normative references 2

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5593, Rolling bearings Vocabulary DARD PREVIEW

ISO 15241, Rolling bearings — Symbols for quantities iteh.ai)

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Terms and definitions iteh.ai/catalog/standards/sist/75ae11d3-2a28-4b29-a2b4-

e80ff556a621/sist-iso-3228-2015
For the purposes of this document, the terms and definitions given in ISO 5593 apply.

Symbols

4.1 General

For the purposes of this document, the symbols given in ISO 15241 and those in 4.2 to 4.7 apply.

The symbols (except those for tolerances) shown in Figures 1 to 6, and the values given in Tables 1 to 10 denote nominal dimensions, unless specified otherwise.

Figures 1 to 6 are drawn schematically and do not necessarily show all design details. The grease nipple positions in Figures 1 to 4 are examples. Other positions are at the discretion of the manufacturer.

4.2 Cast plummer block housing

See Figure 1 and Tables 1 and 2.

A (overall) width of base

*D*_a spherical seating diameter of housing

H distance from mounting base to centreline of spherical seating diameter

 H_1 height of feet

J centre distance between bolt holes

L (overall) length of base

N width of bolt hole

 N_1 length of bolt hole

 Δ_{Hs} deviation of single distance from mounting base to centreline of spherical seating diam-

eter

4.3 Cast flanged housing, square

See Figure 2 and Tables 3 and 4. Teh STANDARD PREVIEW

A (overall) width (standards.iteh.ai)

A₁ width of flange <u>SIST ISO 3228:2015</u>

https://standards.iteh.ai/catalog/standards/sist/75ae11d3-2a28-4b29-a2b4-A2 distance from mounting face_to_centreline_of_spherical-seating diameter

*D*_a spherical seating diameter of housing

J centre distance between bolt holes

L (overall) length

N diameter of bolt hole

X position tolerance of bolt holes

 Δ_{A2s} deviation of single distance from mounting face to centreline of spherical seating diam-

eter

4.4 Cast flanged housing, oval

See Figure 3 and Tables 5 and 6.

A (overall) width

 A_1 width of flange

A₂ distance from mounting face to centreline of spherical seating diameter

 $D_{\rm a}$ spherical seating diameter of housing

H height of flange

centre distance between bolt holes J L (overall) length N diameter of bolt hole X position tolerance of bolt holes deviation of single distance from mounting face to centreline of spherical seating diam- Δ_{A2s} eter 4.5 Cast take-up housing See Figure 4 and Tables 7 and 8. Α (overall) width (attachment end) A_1 width of location slot A_2 width of flange in which location slot is provided D_{a} spherical seating diameter of housing Н (overall) height distance between bottoms of location slots RFVIEW H_1 height (attachment end and ards.iteh.ai) H_2 L (overall) length SIST ISO 3228:2015 distance from attachment end face to centreline of spherical seating diameter L_1 e80ff556a621/sist-iso-3228-2015 length (attachment end) L_2 length of location slot L_3 diameter of attachment hole N length of attachment slot N_1 N_2 height of attachment slot

4.6 Pressed plummer block housing

See Figure 5 and Table 9.

 Δ_{H1s}

_	
A	(overall) width of base
D_{a}	spherical seating diameter of housing
Н	distance from mounting base to centreline of spherical seating diameter
H_1	height of feet
J	centre distance between bolt holes
L	(overall) length of base

deviation of single distance between bottoms of location slots

N diameter of bolt hole

deviation of single centre distance between bolt holes $\Delta_{I_{\rm S}}$

deviation of single diameter of bolt hole $\Delta_{N_{\rm S}}$

Pressed flanged housings, round, triangular and oval 4.7

See Figure 6 and Table 10.

(overall) width A

width of flange A_1

spherical seating diameter of housing $D_{\rm a}$

Н height (round, triangular, oval)

 H_1 distance from straight edge to centreline of spherical seating diameter (triangular)

limit diameter of flat surface H_2

pitch circle diameter of bolt holes (round and triangular); centre distance between bolt J

holes (oval)

(overall) length of flange (oval) NDARD PREVIEW L

side dimension of square botthole dards.iteh.ai) N

deviation of single pitch circle diameter of bolt holes (round and triangular); deviation of $\Delta_{I_{\rm S}}$

single centre distance between bolt holes (6221) 15 https://standards.iteh.ai/catalog/standards/sist/75ae11d3-2a28-4b29-a2b4-

deviation of single side dimension of square bolt hole 15 $\Delta_{N_{\rm S}}$

Boundary dimensions and tolerances

5.1 General

Boundary dimensions and tolerances are given in <u>Tables 1</u> to <u>10</u>.

Where "max." is shown in Tables 1 to 10, this indicates that the value is both the nominal value and the largest actual value permitted. Where "min." is shown in Tables 1 to 8, this indicates that the value is both the nominal value and the smallest actual value permitted.

5.2 Cast housings

Boundary dimensions and tolerances for cast housings are given in <u>Tables 1</u> to <u>8</u>.

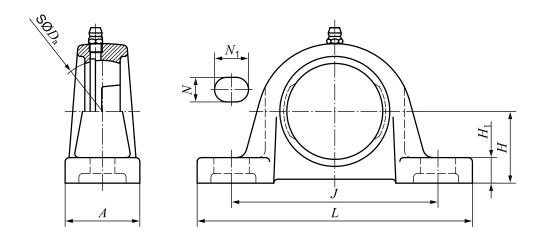


Figure 1 — Cast plummer block housing

 ${\it Table 1-Cast plummer block housings-Diameter series 2}$

Dimensions and tolerance values in millimetres

Da	L	A	J	Н	$\Delta_{H_{ m S}}$	H_1	1	V	N_1
	max.	max.				max.	min.	max.	min.
40	129	39	96	30,2	±0,25	17	10,5	12,5	16
47	134	1 lgen	5 196A	L _{33,3} K	±0,25	V 17	10,5	12,5	16
52	142	39	(s105 n	36,5 S	±0,25	17	10,5	12,5	16
62	167	48	121	42,9	±0,25	20	13	15	19
72	172	48	126 <u>S</u>]	ST 147,6322	<u>3:20±0</u> ,25	20	13	15	19
	h	tps://standard	s.iteh.ai/catak	og/standards/s	sist/75ae11d3-	2a28-4b29-a	ı2b4-		
80	186	55	136	ba621/sist-isc 49,2	±0,25	20	13	15	19
85	192	55	146	54	±0,3	22	13	15	19
90	208	61	159	57,2	±0,3	23	17	19,5	20,5
100	233	61	172	63,5	±0,3	25	17	19,5	20,5
110	243	71	186	69,9	±0,3	27	17	19,5	22
120	268	73	203	76,2	±0,3	34	21	25	24
125	274	74	210	79,4	±0,3	34	21	25	24
130	300	83	217	82,6	±0,35	35	21	25	24
140	305	84	232	88,9	±0,35	38	21	25	24
150	330	95	247	95,2	±0,35	41	21	25	24
160	356	100	262	101,6	±0,35	44	25	29	34
180	390	111	308	115	±0,35	46	25	29	34