

SLOVENSKI STANDARD SIST ISO 6525:2002

01-marec-2002

Drsni ležaji - Kolobarasta oporna podloga, izdelana iz traku - Mere in tolerance

Plain bearings -- Ring type thrust washers made from strip -- Dimensions and tolerances

Paliers lisses -- Rondelles de butée faites à partir de matériaux en bande -- Dimensions et tolérances

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Ta slovenski standard je istoveten z: ISO 6525:1983

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642f0bee4af5/sist-iso-6525-2002

ICS:

21.100.10 Drsni ležaji Plain bearings

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International Standard



6525

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION●МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ●ORGANISATION INTERNATIONALE DE NORMALISATION

Plain bearings — Ring type thrust washers made from strip — Dimensions and tolerances

Paliers lisses — Rondelles de butée faites à partir de matériaux en bande — Dimensions et tolérances

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UDC 621.822.5

Ref. No. ISO 6525-1983 (E)

Descriptors: bearings, plain bearings, washers (spacers), thrust washers, dimensions, dimensional tolerances.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6525 was developed by Technical Committee ISO/TC 123, Plain bearings, and was circulated to the member bodies in March 1982. itch. ai)

It has been approved by the member bodies of the following countries:

Austria

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Brazil 642f0bee4shitedtKingdom-2002 Italy

Czechoslovakia USA Korea, Rep. of Egypt, Arab Rep. of Netherlands **USSR**

France Poland

Germany, F.R. Romania

No member body expressed disapproval of the document.

Plain bearings — Ring type thrust washers made from strip — Dimensions and tolerances

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1 Scope and field of application

3 Definition

This International Standard specifies a range of thrust washers ds/sist ring type thrust washerd. An unsplit ring, normally fitting into for general purpose use with wrapped bushes las specified in iso-6.52 recess in the end of a housing, which is intended to accept ISO 3547.

It applies to thrust washers having inside diameters from 6 to 80 mm.

 $\mathsf{NOTE}-\mathsf{It}$ is not expected that all the sizes listed will be available from stock but adoption of standard sizes should lead to economies in tooling costs.

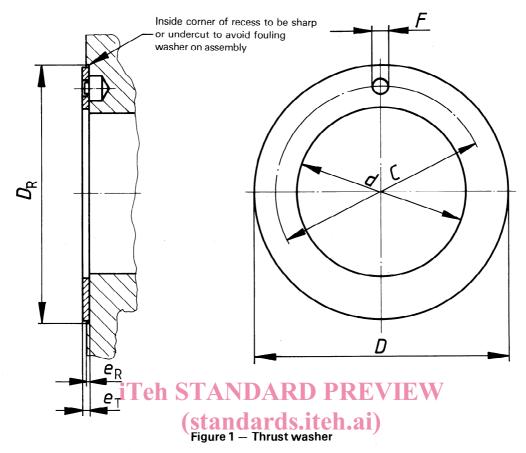
2 Reference

ISO 3547, Plain bearings — Wrapped bushes — Dimensions, tolerances and methods of checking.

thrust and to provide axial location for a rotating shaft (see figure 1).

The standardized thrust washers are prevented from rotating by a dowel.

NOTE — Other means of location may be provided for special purpose.



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4 Symbols

D = outside diameter of the washer

d = inside diameter of the washer

 $e_{\rm T}$ = total washer thickness

C = pitch circle diameter for dowel centre

F =dowel hole diameter

 D_{R} = diameter of recess in the housing

 $e_{\rm R}$ = depth of recess in the housing

p = flatness limit

5 Dimensions and tolerances

The basic dimensions and tolerances for thrust washers are shown in the table.

Dimension D_R is equal to D and the tolerance for D_R is G10.

Dimension $e_{\rm R}$ is determined by the possible wear of the thrust washer and by the condition of loading in order to prevent washer escaping out of the recess if the load is reversed.

6 Oil grooves

By agreement between the user and the manufacturer, oil grooves may be provided.

Grooves serve the primary purpose of feeding oil over the flat areas. Sometimes, however, grooves have to be deeper than is necessary for this purpose in order to allow escape of oil from pressure-fed journal bearings. Some typical grooving arrangements are illustrated in figure 2.

NOTES

- 1 When grooves are embossed into bimetallic materials, the depth of groove should preferably be less than the lining thickness.
- 2 Sharp edges of grooves shall be removed.

7 Flatness of washer

It is not possible to specify flatness for thrust washers having oil grooving on the thrust face since the grooving operation causes distortion. In the special case of ungrooved washers, they shall slide between parallel plates set at $e_{\rm Tmax}+p$ where p=0,10 mm for up to 80 mm outside diameter and at p=0,12 mm above this diameter.

8 Chamfers

All sharp edges shall be removed.

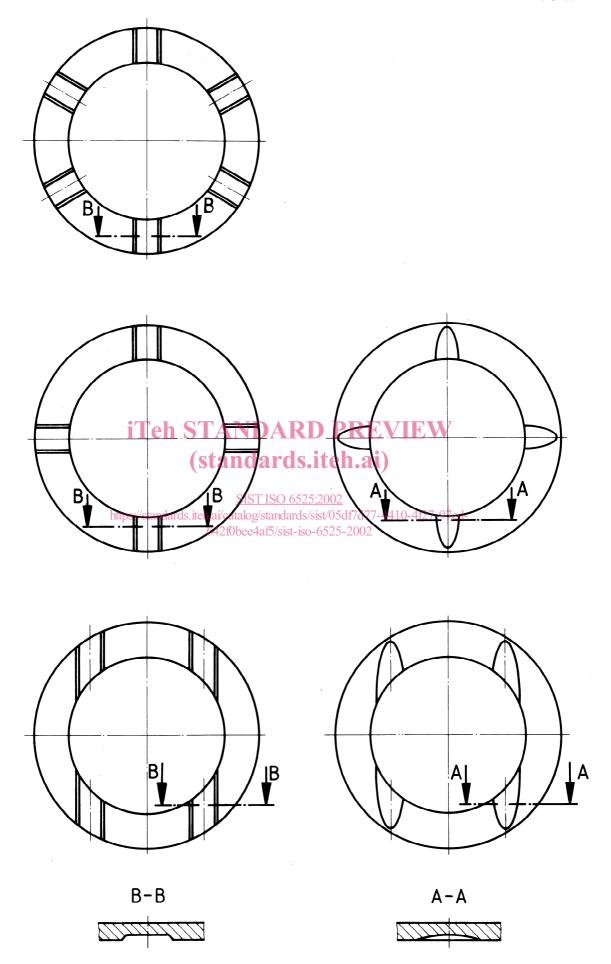


Figure 2 — Typical oil grooves

Table — Dimensions and tolerances

Dimensions in millimetres

						nsions in millimetre
Nominal bush housing diameter		Inside diameter,	Outside diameter,	Thickness,	Pitch circle diameter,	Dowel hole diameter,
	•	d	D	e_{T}	\boldsymbol{C}	F
preferred	non-preferred	+ 0,25 0	0 0,25	0 -0,05	± 0,15	+ 0,40 + 0,10
6		6	16	1,00	11	1,5
7		7	17	1,00	12	1,5
8		8	18	1,00	13	1,5
9		9	19	1,00	14	1,5
10		10	22	1,00	16	1,5
11		12	24	1,50	18	1,5
12		12	24	1,50	18	1,5
40		14	26	1,50	20	2,0
13 14		14	26	1,50	20	2,0
15		16	30	1,50	23	2,0
16		16	30	1,50	23	2,0
17		18	32	1,50	25	2,0
18		18	32	1,50	25	2,0
19		20	36	1,50	28	3,0
20		20	36	1,50	28	3,0
21		22	38	1,50	30	3,0
22		22	38	1,50	30	3,0
	00		40	1 50	33	3,0
24	23	24 Ceh 24T A N	42 10 42 10 10 10 10 10 10 10 10 10 10 10 10 10 1	1,50 PR 1,50/TR	33	3,0
					<u> </u>	
25		26	44	1,50	35	3,0
26		²⁶ star	Mallusill	eh.a1.50	35	3,0
	27	28	48	1,50	39	4,0
28		28	48 TICT ICO (525.20)	1,50	39	4,0
30	1 /	1 132 1 1	54 1 1 100	1,50 ₄₁₀ 40	43	4,0
32	https://	standards 32 eh. ai/cat	alog/standards/sist/0)5df7d77 <mark>,50</mark> 410-4f2	7-97cd ₄₃	4,0
34		36 042100	60 150-052	3-2002 1,50	48	4,0
36		36	60	1,50	48	4,0
38		40	64	1,50	52	4,0
30	39	40	64	1,50	52	4,0
40	39	40	64	1,50	52	4,0
42		45	70	1,50	57,5	4,0
	44	45	70	1,50	57,5	4,0
45		45	70	1,50	57,5	4,0
48		50	76	2,00	63	4,0
50	•	50	76	2,00	63	4,0
53		55	80	2,00	67,5	5,0
	55	55 55	80	2,00	67,5	5,0
56		60	90	2,00	75	5,0
50	57		90	2,00	75	5,0
60	3/	60 60	90	2,00	75 75	5,0 5,0
63	65	65 65	100 100	2,00 2,00	83,5 83,5	5,0 5,0
	ບນ					
67		70	105	2,00	88	5,0
	70	70	105	2,00	88	5,0
71	-	75	110	2,00	92,5	5,0
75		75	110	2,00	92,5	5,0
		80	120	2,00	100	5,0
80						