

### SLOVENSKI STANDARD SIST ISO 2795:1995

01-november-1995

Drsni ležaji - Sintrane puše - Mere in tolerance

Plain bearings -- Sintered bushes -- Dimensions and tolerances

Paliers lisses -- Coussinets frittés -- Dimensions et tolérances

Ta slovenski standard je istoveten z: ISO 2795:1991

SIST ISO 2795:1995

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ICS:

21.100.10 Drsni ležaji Plain bearings

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# INTERNATIONAL STANDARD

ISO 2795

Fourth edition 1991-11-01

## Plain bearings — Sintered bushes — Dimensions and tolerances

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ISO 2795:1991(E)

#### **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.

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.

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International Standard ISO 2795 was prepared by Technical Committee ISO/TC 123, Plain bearings, Sub-Committee SC 3, Dimensions, tolerances and construction details.

SIST ISO 2795:1995

This fourth edition candets/standads.replaceslog/thedarth/rd/cfe/ditionelee-4853-8e13-(ISO 2795:1986), of which it constitutes a minorcrevision ist-iso-2795-1995

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#### Introduction

The sizes given in this International Standard are based on a range of shaft diameters which are considered to correspond to the requirements of industry. For all except the smallest sizes, a thin-wall series is provided in addition to the normal series in order to introduce an element of choice and, more importantly, to provide for the possibility of the same sizes being adopted for plain bearings made from other materials. It is envisaged that as far as possible the same outside diameters will be recommended for all types of plain bearings.

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### Plain bearings — Sintered bushes — Dimensions and tolerances

#### Scope

This International Standard specifies the dimensions and tolerances<sup>1)</sup> applicable to sintered bearings for the following ranges of inside diameters:

- Cylindrical bearings: 1 mm to 60 mm
- Flanged bearings: 1 mm to 60 mm

ISO 286-2:1988, ISO system of limits and fits -Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts.

ISO 5755-1:1987, Sintered metal materials — Specifications — Part 1: Materials, for bearings, impregnated with liquid lubricant.

## -- Spherical bearings: 1 mm to 20 mm TANDARD PREVIEW

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#### **Normative references** 2

Materials used for manufacturing sintered bearings

through reference in this itext/sconstitute provisions dards/sist/cf746428-e1ee-4853-8e13of this International Standard. At the time of public/sist-iso-2795-1995 cation, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain

ISO 286-1:1988. ISO system of limits and fits -Part 1: Bases of tolerances, deviations and fits.

registers of currently valid International Standards.

The following standards contain provisions Which 2795 shall conform to ISO 5755-1.

#### 4 Cylindrical bearings

#### **Dimensions**

See figure 1 and tables 1 and 2.

<sup>1)</sup> See ISO 286-1 and ISO 286-2 for the limit deviations and tolerance grades specified in this International Standard.

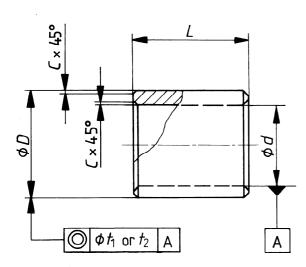


Figure 1

Table 1

	Dimensions in millimetres			
Inside diameter	Outside diameter, D		Length1)	
d	Normal series	Thin series?)	O I (AII I)	
1_	3		(stand	
1,5	4		1-2	
2	5		2-3	
2,5	6 6	_ 5	2-3	
3	ь	0	3-4 <u>SIS</u>	
4	8	https://standar	<del>ds.itch.ai/eatalog</del> 3-4-6	
5	9	8	20518cd03c	
6	10	9	4-6-10	
7	11	10	5-8-10	
8	12	11	6-8-12	
9	14	12	6-10-14	
10	16	14	8-10-16	
12	18	16	8-12-20	
14	20	18	10-14-20	
15	21	19	10-15-25	
16	22	20	12-16-25	
18	24	22	12-18-30	
20	26	25	15-20-25-30	
22	28	27	15-20-25-30	
25	32	30	20-25-30-35	
28	36	33(34)	20-25-30-40	
30	38	35(36)	20-25-30-40	
32	40	38	20-25-30-40	
35	45	41	25-35-40-50	
38	48	44	25-35-45-55	
40	50	46	30-40-50-60	
42	52	48	30-40-50-60	
45	55	51	35-45-55-65	
48	58	55	35-50-70	
50	60	58	35-50-70	
55	65	63	40-55-70	
60	72	68	50-60-70	
L	L	L		

<sup>1)</sup> As from inside diameter 20 mm (included), the last value for the length is not applicable to the thin series

Table 2

Dimensions in millimetres

$\begin{array}{c c} \textbf{Wall thickness} \\ \underline{D-d} \\ \hline 2 \\ \\ \textbf{above} \\ \end{array}  \begin{array}{c c} \textbf{up to and} \\ \textbf{incl.} \\ \end{array}$		<b>Chamfer</b> <i>C</i> max.
1 2 3 4 5	1 2 3 4 5	0,2 0,3 0,4 0,6 0,7 0,8

#### 4.2 Tolerances

The tolerances on the bearings after fitting and the tolerances on the housing and insertion pin are given below. In addition, tolerances on the inside and outside diameters of the bearing before fitting are given.

Since the actual tolerances and combinations of tolerances in the as-delivered state depend upon the characteristics of the materials and the manufacturing methods, they should be discussed with the manufacturer.

ISO 2795.0000 utside diameter D: in the ranges

standards/sist/cf746428-e1ee-4853-8e13b8c/sist-iso-279r61to) \$7, for  $D \le 50$  mm r7 to s8, for D > 50 mm

- on inside diameter d: in the ranges

F7 to G7, for  $D \leq 50$  mm F8 to G8. for D > 50 mm

- on bearing length L: js13
- on coaxiality of the outside diameter with respect to the inside surface diameter (tolerance based on the outside diameter, D):

$$t_1 = \text{IT 9 for } D \leqslant 50 \text{ mm}$$
  
 $t_2 = \text{IT 10 for } D > 50 \text{ mm}$ 

Insertion pin: in the range m5 to m6

Housing: H7

Bearing bore after fitting (assuming the housing is rigid):

H7, for 
$$D \le 50$$
 mm  
H8, for  $D > 50$  mm

<sup>2)</sup> Dimensions in parentheses shall be used as "2nd choice"

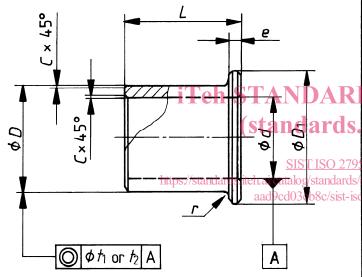
#### 5 Flanged bearings

Table 3

Dimensions in millimetres

#### 5.1 Dimensions

See figure 2 and tables 3 to 5.



Flange Outside Flange Inside Length thickness diameter diameter diameter L D  $D_1$ Normal series 1,5 2 1,5 2,5 1,5 1,5 3-4-6 4-5-8 4-6-10 5-8-10 6-8-12 2,5 6-10-14 á 8-10-16 8-12-20 10-14-20 10-15-25 12-16-25 12-18-30 15-20-25-30 25 15-20-25-30 3,5 4 20-25-30 28 R 20-25-30 20-25-30 iten.ai 20-25-30 5 25-35-40 25-35-45 30-40-50 30-40-50 55-485 58 35-45-55 sist/cf 54642 35-50 950 199 35-50 40-55 50-60 Thin series 8-10-16 8-12-20 10-14-20 10-15-25 12-16-25 12-18-30 15-20-25 2,5 15-20-25 2,5 2,5 20-25-30