



Glidlager – Sintrade självsmörjande glidlager – Mått och toleranser

Den internationella standarden ISO 2795:1991 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av ISO 2795:1991.

Standarden ersätter SS 2991, SS 2992 och SS 2993.

Motsvarigheten och aktualiteten i svensk standard till de publikationer som omnämns i denna standard framgår av "Katalog över svensk standard", som årligen ges ut av SIS. I katalogen redovisas internationella och europeiska standarder som fastställts som svenska standarder och övriga gällande svenska standarder.

Plain bearings – Sintered bushes – Dimensions and tolerances

The International Standard ISO 2795:1991 has the status of a Swedish Standard. This document contains the official English version of ISO 2795:1991.

This standard supersedes the Swedish Standard SS 2991, SS 2992 and SS 2993.

Swedish Standards corresponding to documents referred to in this Standard are listed in "Catalogue of Swedish Standards", annually issued by SIS. The Catalogue lists, with reference number and year of Swedish approval, International and European Standards approved as Swedish Standards as well as other Swedish Standards.

INTERNATIONAL STANDARD

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Plain bearings – Sintered bushes – Dimensions and tolerances

Paliers lisses — Coussinets frittés — Dimensions et tolérances



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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.

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

This fourth edition cancels and replaces the third edition (ISO 2795:1986), of which it constitutes a minor revision.

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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.

Plain bearings — Sintered bushes — Dimensions and tolerances

1 Scope

This International Standard specifies the dimensions and tolerances¹⁾ 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
- Spherical bearings: 1 mm to 20 mm

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, 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 registers of currently valid International Standards.

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

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.*

3 Materials

Materials used for manufacturing sintered bearings shall conform to ISO 5755-1,

4 Cylindrical bearings

4.1 Dimensions

See figure 1 and tables 1 and 2.

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

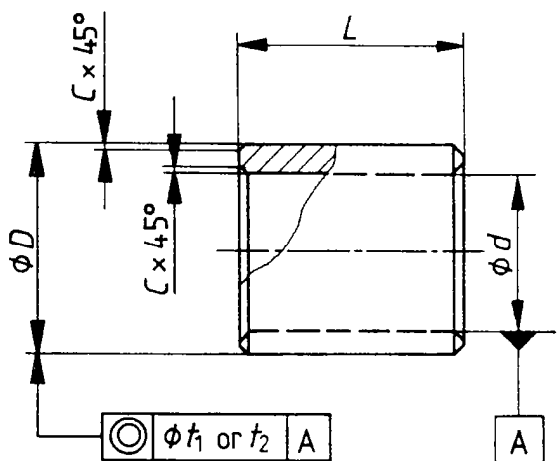


Figure 1

Table 1

Dimensions in millimetres

Inside diameter d	Outside diameter, D		Length ¹⁾ L
	Normal series	Thin series ²⁾	
1	3	—	1-2
1,5	4	—	1-2
2	5	—	2-3
2,5	6	—	2-3
3	6	5	3-4
4	8	7	3-4-6
5	9	8	4-5-8
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

1) As from inside diameter 20 mm (included), the last value for the length is not applicable to the thin series.
2) Dimensions in parentheses shall be used as "2nd choice".

Table 2

Dimensions in millimetres

Wall thickness $\frac{D-d}{2}$		Chamfer C max.
above	up to and incl.	
—	1	0,2
1	2	0,3
2	3	0,4
3	4	0,6
4	5	0,7
5	—	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.

NOTE 1 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.

As-delivered:

— on outside diameter D : in the ranges

$r6$ to $s7$, for $D \leq 50$ 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):

$t_1 = IT 9$ for $D \leq 50$ mm
 $t_2 = IT 10$ for $D > 50$ mm

Insertion pin: in the range m5 to m6

Housing: H7

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

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