



SLOVENSKI STANDARD

SIST EN 3386:2012

01-maj-2012

Aeronavtika - Varnostni obroči za radialno pritrditev, jekleni, fosfatirani

Aerospace series - Rings retaining, radial mounting, steel, phosphated

Luft- und Raumfahrt - Sicherungsringe, radial montierbar, aus Stahl, phosphatiert

Série aérospatiale - Anneaux d'arrêt, à montage radial, en acier, phosphatés

Ta slovenski standard je istoveten z: **EN 3386:2012**

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ICS:

49.030.50	Podložke in drugi blokirni elementi	Washers and other locking elements
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en

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EUROPEAN STANDARD

EN 3386

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2012

ICS 49.030.50

English Version

**Aerospace series - Rings retaining, radial mounting, steel,
phosphated**Série aérospatiale - Anneaux d'arrêt, à montage radial, en
acier, phosphatésLuft- und Raumfahrt - Sicherungsringe, radial montierbar,
aus Stahl, phosphatiert

This European Standard was approved by CEN on 24 September 2011.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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Foreword

This document (EN 3386:2012) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2012, and conflicting national standards shall be withdrawn at the latest by September 2012.

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

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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EN 3386:2012 (E)**1 Scope and field of application**

This standard defines the characteristics of radial mounting retaining rings, in steel, phosphated, for aerospace applications.

These retaining rings are used only when EN 3384 cannot be used for installation problems.

The phosphating restricts the use at temperatures not exceeding 200 °C.

2 Normative references

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.

EN 2424, *Aerospace series — Marking of aerospace products*

EN 3380, *Aerospace series — Rings retaining — Technical specification*

EN 3384, *Aerospace series — Rings, retaining, external, axial mounting, steel, phosphated*¹⁾

EN 3427, *Aerospace series — Groove dimensions for axial mounting external type retaining rings*

3 Required characteristics**3.1 Configuration — Dimensions — Masses**

See figure 1 and table.

The values shown in the table are applicable after phosphating.
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3.2 Materials

Spring steel: 480–530 HV

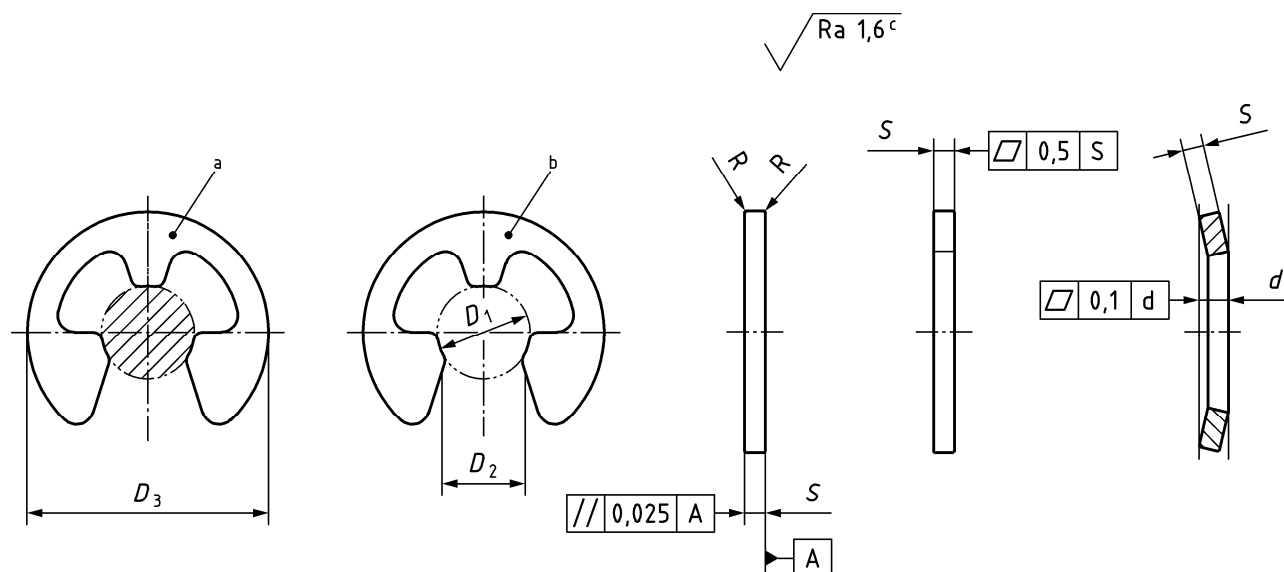
3.3 Surface treatment

Phosphate to EN 2793, class A

Before storing, the ring shall be protected by grease or oil.

1) Published as ASD-STAN pre-standard at the date of publication of the present standard.

NOTE Details of form not stated are left to the manufacturer's option.



Key:

- a Installed
- b Free
- c Apply prior to phosphating

Figure 1
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Table 1

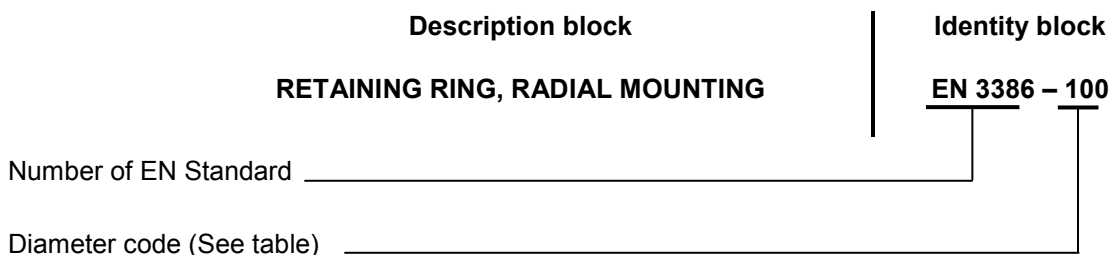
Dimensions in millimetres

D_1^b		D_2	D_3	S		R	P	Mass ^c
Code	nom.	H10	max.	nom.	Tol.			kg/1 000
008	0,8	0,58	2	0,2	+0,02	0,04	0,1	0,003
012	1,2	1,01	3	0,3				0,009
015	1,5	1,28	4	0,4				0,021
019	1,9	1,61	4,5	0,5				0,040
023	2,3	1,94	6	0,6				0,069
032	3,2	2,7	7					0,088
040	4	3,34	9	0,7		0,06		0,158
050	5	4,11	11			0,07		0,236
060	6	5,26	12			0,08		0,255
070	7	5,84	14	0,9		0,474		
080	8	6,52	16	1		0,1		0,660
090	9	7,63	18,5	1,1				1,090
100	10	8,32	20	1,2				1,250
120	12	10,45	23	1,3				1,630
150	15	12,61	29	1,5	3,370			
190	19	15,92	37	1,75	6,420			
240	24	21,88	44	2	0,12	11,850		
300	30	25,8	52	2,5	0,15	13,500		

^a Values apply after phosphating.
^b Corresponds to the diameter of the groove in which the ring shall be mounted (see EN 3427).
^c Approximate values, calculated on the basis of 7,85 kg/dm³, given for information purpose only.

4 Designation

EXAMPLE



NOTE If necessary, the originator code I9005 shall be placed between the description block and the identity block.