



# SLOVENSKI STANDARD

## SIST EN 3368:2008

01-julij-2008

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### Aeronavtika - Standard za projektiranje - Luknje za valjaste zatiče

Aerospace series - Aerospace design standard - Holes for locating pins

Luft- und Raumfahrt - Löcher für Zylinderstifte - Konstruktionsnorm

Série aérospatiale - Trous pour pieds de centrage - Normes de conception

Ta slovenski standard je istoveten z: **EN 3368:2008**

[SIST EN 3368:2008](https://standards.iteh.ai/catalog/standards/sist/ba5ddd80-ac51-47cf-a34b-b37ba4df8d7a/sist-en-3368-2008)

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#### **ICS:**

49.030.40      Zatiči, žebli      Pins, nails

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 3368**

April 2008

ICS 49.030.01

English Version

## Aerospace series - Aerospace design standard - Holes for locating pins

Série aérospatiale - Trous pour pieds de centrage - Normes de conception

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This European Standard was approved by CEN on 3 November 2007.

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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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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 and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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## Foreword

This document (EN 3368:2008) 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 October 2008, and conflicting national standards shall be withdrawn at the latest by October 2008.

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, 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 and the United Kingdom.

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## EN 3368:2008 (E)

## 1 Scope

This standard provides particulars of hole sizes and associated fitting conditions to suit locating pins EN 3150 and EN 3151 series.

## 2 Normative references

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

EN 3150, *Aerospace series — Pins, shoulder, headless, in heat resisting nickel base alloy NI-P100HT (Inconel 718)*

EN 3151, *Aerospace series — Dowels, plain, in heat resisting nickel base alloy NI-P100HT (Inconel 718)*

## 3 Locating pins

Table 1 gives the nominal locating pin diameters, their tolerance grade and tolerance sizes.

Table 1  
Dimensions in millimetres

Nominal pin diameter	Tolerance grade	Tolerance	
		+ max.	+ min.
3	p6	+ 0,016	+ 0,010
4		+ 0,020	+ 0,012
5			
6			
7			
8			
10		+ 0,024	+ 0,015

## 4 Hole sizes, positional tolerances and chamfer sizes

4.1 Refer to Figure 1 for typical callout.

4.2 Hole sizes shall be in accordance with Clause 7, Table 2 and Clause 8, Table 3.

4.3 Positional tolerances for holes shall be in accordance with Clause 7, Table 2, Clause 9, Table 4 and Clause 10, Table 5.

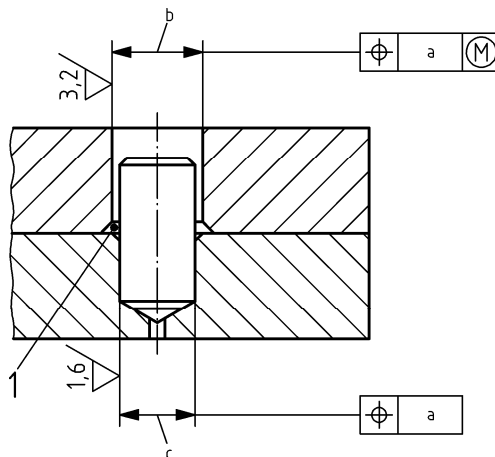
4.4 Chamfers shall be in accordance with Figure 3.

### 5 Counterbore sizes

Counterbores shall be in accordance with Table 6 and Figure 4.

Counterbores are only applicable when using locating pins EN 3150 series.

Dimensions in millimetres



Break sharp edges  $0,30 \text{ mm} \pm 0,20 \text{ mm}$

**Key**

- 1 Chamfers
- a See Table 2
- b N. holes to Table 3 (clearance)
- c N. holes to Table 3 (interference)

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<https://standards.iteh.ai/catalog/standards/sist/en-3368-2008/5ddd80-ac51-47cf-a34b-b37ba4df8d7a/sist-en-3368-2008> **Figure 1**

### 6 Air release holes

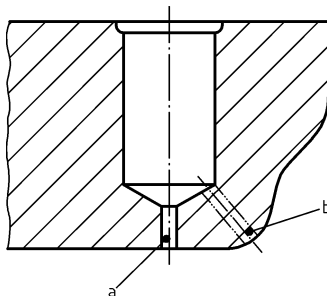
An air release hole shall be provided in the end of blind holes Figure 2.

For pin sizes 3 mm to 4 mm inclusive the air release hole shall be 1,5 mm in diameter.

For pin sizes 5 mm or greater the air release hole shall be 2,0 mm in diameter.

Dimensions in millimetres

3,2/

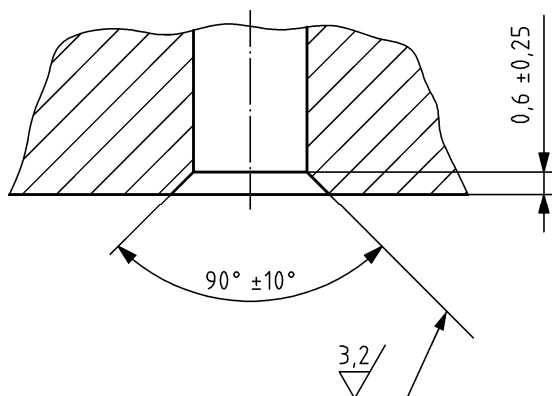


Break sharp edges  $0,30 \text{ mm} \pm 0,20 \text{ mm}$

a or b

**Figure 2**

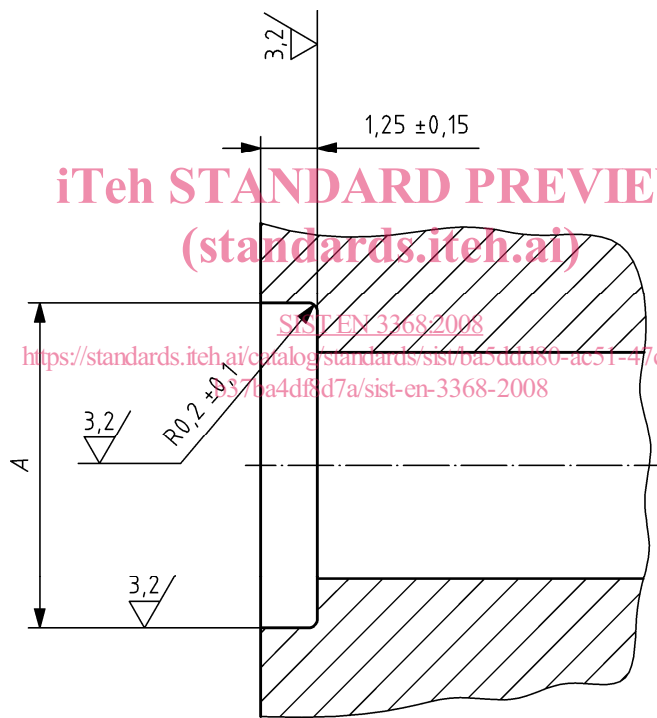
Dimensions in millimetres



Break sharp edges  $0,30 \text{ mm} \pm 0,20 \text{ mm}$

Figure 3

Dimensions in millimetres



Break sharp edges  $0,30 \text{ mm} \pm 0,20 \text{ mm}$

Figure 4



## 7 Hole tolerance grade designations

Table 2

Dimensions in millimetres

Flange material	Hole pitch circle diameter or max centre distance		Hole positional tolerance	Interference hole	Clearance hole
	over	to			
Steel heat resisting alloys and titanium	–	75	∅ 0,04	H7	D9
	75	250	∅ 0,05		
	250	500	∅ 0,08		
	500	1 600	∅ 0,10		C9
	1 600	–	∅ 0,14		
Light alloys	–	75	∅ 0,04	K7	D9
	75	250	∅ 0,05		
	250	500	∅ 0,08		
	500	1 600	∅ 0,10		C9
	1 600	–	∅ 0,14		

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## 8 Dimensional particulars for holes

Table 3

<https://standards.iteh.ai/catalog/standards/sist/ba5ddd80-ac51-47cf-a34b-107777777777/en-3368-2008>

Nominal pin diameter	Interference hole		Clearance hole	
	H7 mm	K7 mm	C9 mm	D9 mm
3	3,010	3,000	3,085	3,045
	3,000	2,990	3,060	3,020
4	4,012	4,003	4,100	4,060
	4,000	3,991	4,070	4,030
5	5,012	5,003	5,100	5,060
	5,000	4,991	5,070	5,030
6	6,012	6,003	6,100	6,060
	6,000	5,991	6,070	6,030
7	7,015	7,005	7,116	7,076
	7,000	6,990	7,080	7,040
8	8,015	8,005	8,116	8,076
	8,000	7,990	8,080	8,040
10	10,015	10,005	10,116	10,076
	10,000	9,900	10,080	10,040