



**SLOVENSKI STANDARD**  
**SIST EN 3611:2001**

**01-januar-2001**

---

**Aerospace series - Spigots - Dimensions and fit selection - Design standard**

Aerospace series - Spigots - Dimensions and fit selection - Design standard

Luft- und Raumfahrt - Zentrierbunde - Maße und Passungsauswahl - Konstruktionsnorm

Série aérospatiale - Pièces de centrage - Dimensions et sélection d'ajustement - Norme de conception

**(standards.iteh.ai)**

**Ta slovenski standard je istoveten z: EN 3611:1995**

<https://standards.iteh.ai/catalog/standards/sist/9971d9f4-5bce-4f0b-acd2-7ea4e569cb5/sist-en-3611-2001>

**ICS:**

49.030.01      Vezni elementi na splošno      Fasteners in general

**SIST EN 3611:2001**

**en**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 3611:2001](https://standards.iteh.ai/catalog/standards/sist/9971d9f4-5bce-4f0b-acd2-7eaf4e569cb5/sist-en-3611-2001)

<https://standards.iteh.ai/catalog/standards/sist/9971d9f4-5bce-4f0b-acd2-7eaf4e569cb5/sist-en-3611-2001>

EUROPEAN STANDARD

EN 3611

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 1995

ICS 49.040.20

Descriptors: aircraft industry, positioning, case, dimension, fit, design, designation

English version

**Aerospace series - Spigots - Dimensions and fit  
selection - Design standard**

Série aérospatiale - Pièces de centrage - Dimensions et sélection d'ajustement - Norme de conception  
Luft- und Raumfahrt - Zentrierbunde - Maße und Passungsauswahl - Konstruktionsnorm

**(standards.iteh.ai)**

SIST EN 3611:2001

<https://standards.iteh.ai/catalog/standards/sist/9971d9f4-5bce-4f0b-acd2-7eaf4e569cb5/sist-en-3611-2001>

This European Standard was approved by CEN on 1995-03-18. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

© 1995

All rights of reproduction and communication in any form and by any means reserved in all countries to CEN and its members.

Ref. No. EN 3611:1995 E

Foreword

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

<https://standards.iteh.ai/catalog/standards/sist/94-0004-4f0b-acd2->

After inquiries and votes carried out in accordance with the rules of this Association, this Standard has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, 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 January 1996, and conflicting national standards shall be withdrawn at the latest by January 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## 0 Introduction

Tight fitting spigots may be used with casing flanges made of metallic materials to eliminate the need for close fitted bolts for radial location.

## 1 Scope

This standard specifies the dimensions and fit selection of tight fitting spigots for locating casings and other major components for aerospace applications.

## 2 Design

The flanges shall be sufficiently flexible to accommodate the tight fitting spigot, together with differential strain when present, without permanent distortion.

Three or more equally spaced jacking screw locations, or other features, shall be provided so that the flanges can readily be dismantled. Where jacking screws are to be used to bear onto light alloy faces, protection for the light alloy shall be provided to avoid damage.

Two forms of spigot joints are shown in figures 1 and 2 : external and internal.

Advantages for the external spigot :

- it prevents lever being used to separate ;
- it stiffens the flange at the periphery ;
- it can reduce the pitch circle diameter of the bolts thus improving the "heeling" factor.

Advantages for internal spigot :

- it is less likely to be shop damaged and can be more easily protected ;
- under pressure the use of an interference fit (see table 1) maintains a better seal ;
- the flanges may be scalloped and are therefore lighter.

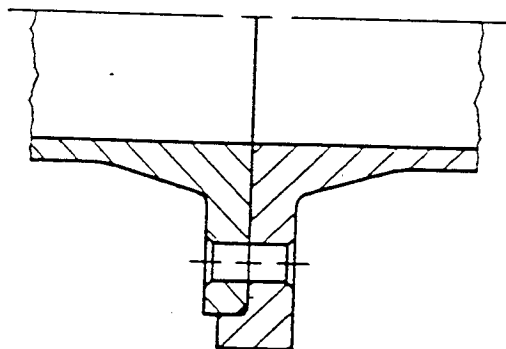


Figure 1 - External spigot  
code V

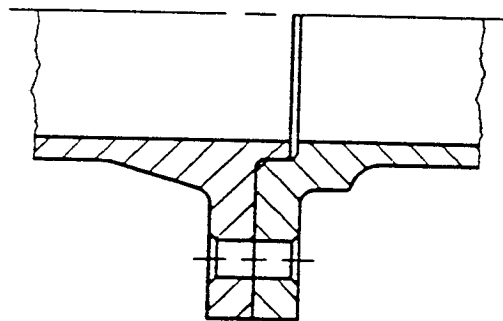
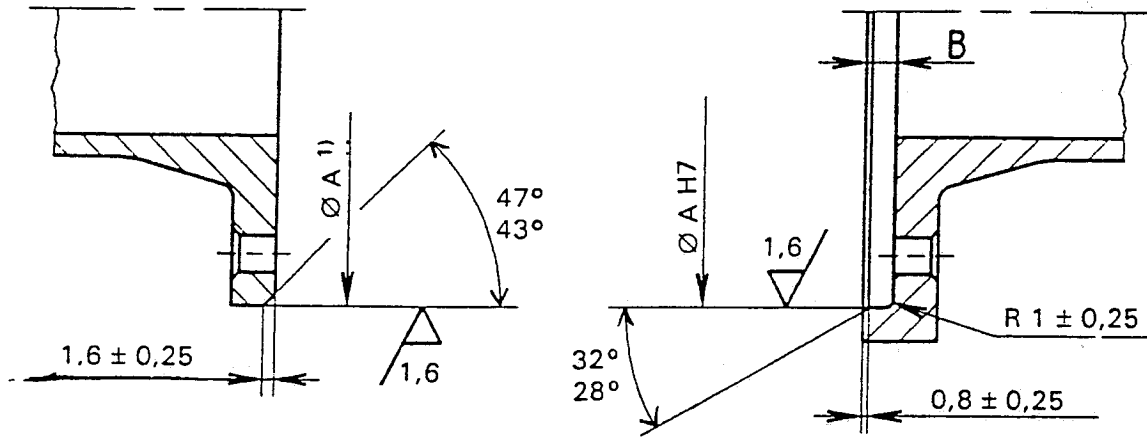


Figure 2 - Internal spigot  
code W

3 Required characteristics

See figures 3 and 4 and table 1.

Dimensions and tolerances are in millimetres.



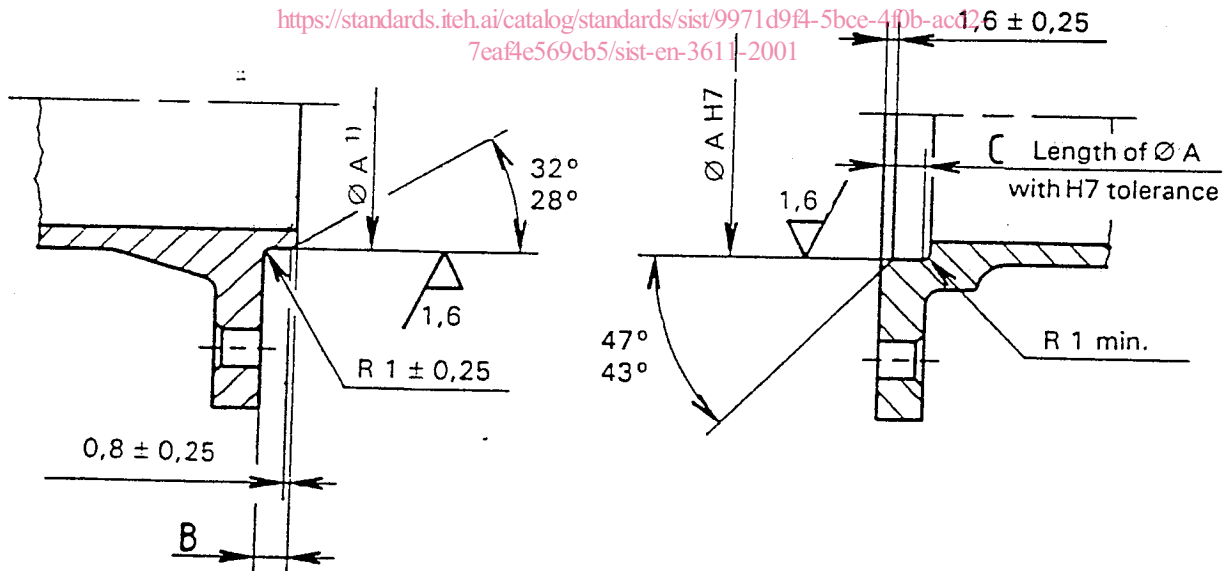
1) Tolerances, see table 1.

**iTeh STANDARD PREVIEW**  
(standards.iteh.ai)

Figure 3 - External spigots

SIST EN 3611:2001

<https://standards.iteh.ai/catalog/standards/sist/9971d9f4-5bce-4f0b-ac12-7eaf4e569cb5/sist-en-3611-2001>



1) Tolerances, see table 1.

Figure 4 - Internal spigots

Table 1 - Spigot dimensions and fit selection

nom.	A		Fits		B	C
	male feature	female feature	Interference Code Y	Transition Code Z		
$200 < A \leq 500$	r6 or k6	H7	H7/r6	H7/k6	$4,5 \pm 0,15$	4,5
$500 < A \leq 1\ 000$	p7 or k7		H7/p7	H7/k7	$5 \pm 0,25$	5
$1\ 000 < A \leq 3\ 150$					$6,5 \pm 0,25$	-7

1) Suitable for flanges having similar thermal expansion rates. Where these differ significantly, it may be necessary to alter the diameter A of the male feature in order to ensure this fit at normal operating temperature.

#### 4 Designation

EXAMPLE :



#### 5 Indication on drawings

EXAMPLE :

SIST EN 3611:2001  
<https://standards.iteh.ai/catalog/standards/sist/9971d9f4-5bce-4f0b-acd2-7eaf4e569c15/sist-en-3611-2001>

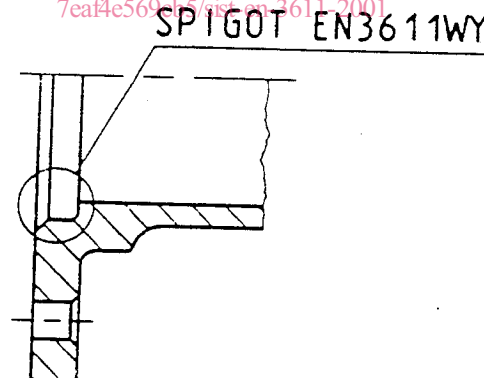


Figure 5

Alternatively, the spigot may be fully dimensioned on the drawing.