

SLOVENSKI STANDARD

SIST EN 4550-1:2015

01-marec-2015

Nadomešča:

SIST EN 4550-1:2004

Aeronavtika - Cevni priključek, 37° - Konstrukcijski list - Colska izvedba - 1. del:
Moški tesnilni končniki, kroglasti

Aerospace series - Pipe coupling, 37° - Design configuration - Inch series - Part 1: Male sealing ends, spherical

Luft- und Raumfahrt - Rohrverschraubungen 37° - Konstruktionsblatt - Inch-Reihe - Teil 1: Steckdichtungsenden mit Kugelbuchsen

Série aérospatiale - Système de raccordement 37° - Configuration géométrique - Série inch - Partie 1 : Extrémité d'étanchéité mâles, sphériques

Ta slovenski standard je istoveten z: EN 4550-1:2014

ICS:

49.080

Letalski in vesoljski
hidravlični sistemi in deli

Aerospace fluid systems and
components

SIST EN 4550-1:2015

en,fr,de

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 4550-1:2015

<https://standards.iteh.ai/catalog/standards/sist/a6d9d6d9-db1f-4437-8670-92d81527c710/sist-en-4550-1-2015>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4550-1

December 2014

ICS 49.080

Supersedes EN 4550-1:2003

English Version

**Aerospace series - Pipe coupling, 37° - Design configuration -
Inch series - Part 1: Male sealing ends, spherical**

Série aérospatiale - Système de raccordement 37° -
Configuration géométrique - Série inch - Partie 1: Extrémité
d'étanchéité mâles, sphériques

Luft- und Raumfahrt - Rohrverschraubungen 37° -
Konstruktionsblatt - Inch-Reihe - Teil 1:
Steckdichtungsenden mit Kugelbuchsen

This European Standard was approved by CEN on 11 November 2014.

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, Former Yugoslav Republic of Macedonia, 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.

[SIST EN 4550-1:2015](https://standards.iteh.ai/catalog/standards/sist/a6d9d6d9-db1f-4437-8670-92d81527c710/sist-en-4550-1-2015)

<https://standards.iteh.ai/catalog/standards/sist/a6d9d6d9-db1f-4437-8670-92d81527c710/sist-en-4550-1-2015>



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Dimensions – Tolerances	4
4 Designation	5
Annex A (informative) Standard evolution form	6

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 4550-1:2015](https://standards.iteh.ai/catalog/standards/sist/a6d9d6d9-db1f-4437-8670-92d81527c710/sist-en-4550-1-2015)

<https://standards.iteh.ai/catalog/standards/sist/a6d9d6d9-db1f-4437-8670-92d81527c710/sist-en-4550-1-2015>

Foreword

This document (EN 4550-1:2014) 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 June 2015, and conflicting national standards shall be withdrawn at the latest by June 2015.

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.

This document supersedes EN 4550-1:2003.

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, Former Yugoslav Republic of Macedonia, 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.

(standards.iteh.ai)

SIST EN 4550-1:2015

<https://standards.iteh.ai/catalog/standards/sist/a6d9d6d9-db1f-4437-8670-92d81527c710/sist-en-4550-1-2015>

1 Scope

This European Standard defines the dimensions and tolerances for the male sealing end of inch series pipe couplings, 37°, spherical, for aerospace applications.

Matched fluid system component shall have a female sealing end in accordance with EN 4550-4.

2 Normative references

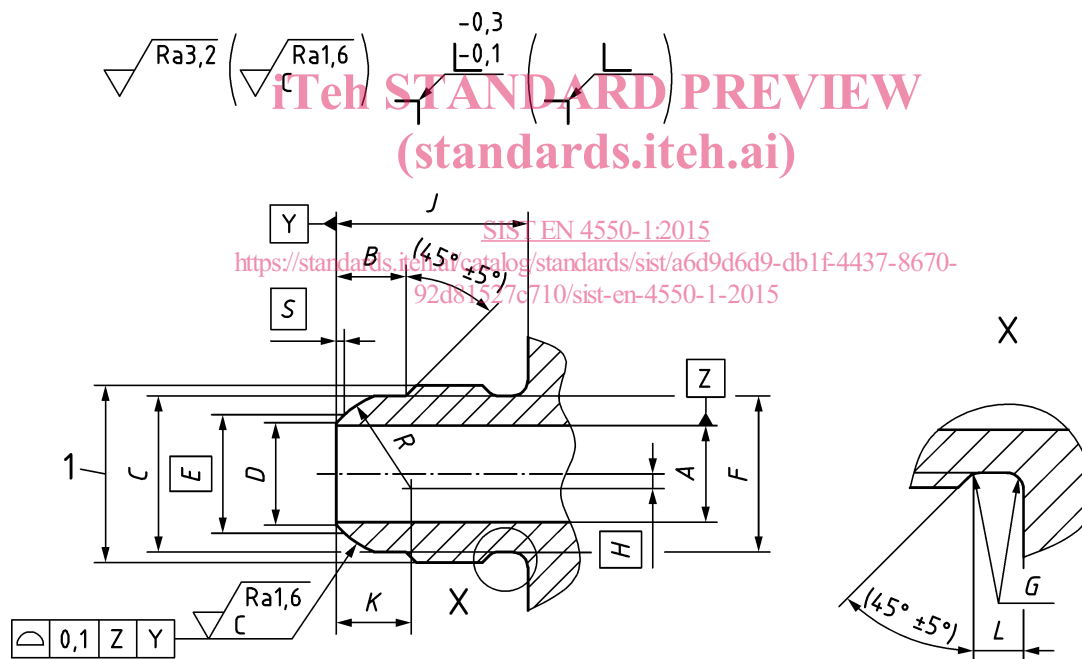
The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 4550-4, *Aerospace series — Pipe coupling, 37° — Design configuration — Inch series — Part 4: Female sealing ends*

ISO 3161, *Aerospace — UNJ threads — General requirements and limit dimensions*

3 Dimensions – Tolerances

See Figure 1 and Table 1. Dimensions and tolerances are in millimetres.



Key

1 Thread

NOTE All outer surfaces shall be concentric with a tolerance of diameter 0,1 mm relative to the inner diameter *A*.

Figure 1

Table 1

Dimensional code ^a	Nominal diameter	Thread ^b	<i>A</i>	<i>B</i> + 0,35 0	<i>C</i> ± 0,10	<i>D</i> ± 0,10	<i>E</i>	<i>F</i> 0 − 0,1	<i>G</i>	<i>H</i>	<i>J</i> ± 0,50	<i>K</i> ± 0,10	<i>L</i> ± 0,25	<i>R</i> ± 0,13	<i>S</i>
03	4,763	.375 0-24UNJF-3A	2,65 2,90	4,4	7,00	3,30	4,53	7,90	0,5 1,3	4,06	12,20	5,50	1,80	7,90	0,74
04	6,350	.437 5-20UNJF-3A	4,25 4,50	4,8	9,00	4,80	6,25	9,25		3,20	14,00	5,55	2,00		0,80
05	7,924	.500 0-20UNJF-3A	5,80 6,10		10,50	6,50	7,77	10,80		2,45		5,50			0,74
06	9,525	.562 5-18UNJF-3A	7,35 7,70	4,9	11,90	8,10	9,61	12,20		1,50		5,65	2,30		0,87
08	12,700	.750 0-16UNJF-3A	9,75 10,10	6,3	16,50	10,80	12,66	16,75	0,8 1,8	3,30	16,50	8,35	2,55	12,05	1,10
10	15,875	.875 0-14UNJF-3A	12,15 12,50	6,6	19,30	13,70	15,50	19,65		1,88	19,00	8,30	3,05		1,05
12	19,050	1.062 5-12UNJ-3A	15,30 15,70	7,8	23,60	16,90	19,34	24,00		3,15	21,80	11,10	3,30	16,05	1,43
16	25,400	1.312 5-12UNJ-3A	21,20 21,70		30,00	23,25	25,64	30,35		0,00	22,90				1,42

^a This two digit quantitative code corresponds to the tube nominal diameter as the number of 1/16 inch increments it contains i.e. divided by 1/16 (.0625) inch.

^b Quoted in inches in accordance with ISO 3161.

4 Designation

EXAMPLE

SIST EN 4550-1:2015
<https://standards.iteh.ai/catalog/standards/sist/a6d9d6d9-db1f-4437-8670-92d81527c710/sist-en-4550-1>

EN4550-1-08

Number of this standard _____

Dimensional code (see Table 1) _____

Annex A (informative) Standard evolution form

MODIFICATION	REASON AND VALIDATION
Figure 1 <u>Before:</u> dimension L (groove width) was represented up to top of thread. <u>After:</u> dimension L (groove width) is represented up to the bottom of thread.	Wrong representation of dimension L (groove width). Accordance with standard DT45-02.
Figure 1 <u>Before:</u> Dimension R was indicated as an absolute dimension (boxed dimension). <u>After:</u> Dimension R is indicated as a dimension with tolerance and tolerance $\pm 0,13$ is added in Table 1.	Incompatibility with another absolute dimension. Accordance with standard DT45-02.
Figure 1 <u>Before:</u> Dimension K was indicated as an absolute dimension (boxed dimension). <u>After:</u> Dimension K is indicated as a dimension with tolerance and tolerance $\pm 0,10$ is added in Table 1.	Incompatibility with another absolute dimension. Accordance with standard DT45-02.

SIST EN 4550-1:2015

<https://standards.iteh.ai/catalog/standards/sist/a6d9d6d9-db1f-4437-8670-92d81527c710/sist-en-4550-1-2015>