



SLOVENSKI STANDARD SIST EN 4551:2004

01-maj-2004

Aerospace series - Pipe coupling 37°, in heat resisting steel - Swivel nuts - Inch series

Aerospace series - Pipe coupling 37°, in heat resisting steel - Swivel nuts - Inch series

Luft- und Raumfahrt - Rohrverschraubung, 37°, aus hochwarmfestem Stahl - Überwurfmuttern - Inch-Reihe

Série aérospatiale - Systeme de raccordement 37°, en acier résistant a chaud - Ecrous prisonniers - Série inch

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ICS:

49.080

Štandardi za sisteme in komponente za tekočine in pline v letalstvu

Aerospace fluid systems and components

SIST EN 4551:2004

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4551

February 2003

ICS 49.080

English version

Aerospace series - Pipe coupling 37°, in heat resisting steel - Swivel nuts - Inch series

Série aérospatiale - Système de raccordement 37°, en
acier résistant à chaud - Ecrous prisonniers - Série inch

This European Standard was approved by CEN on 14 September 2002.

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 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 Management Centre has the same status as the official versions.

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

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Contents

Foreword.....	3
1 Scope	3
2 Normative references	3
3 Required characteristics	4
3.1 Configuration – Dimensions – Tolerances – Masses.....	4
3.2 Materials.....	4
3.3 Surface treatments	4
4 Designation.....	7
5 Marking	7
6 Technical specification	7

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Foreword

This document EN 4551:2003 has been prepared by the European Association of Aerospace Manufacturers (AECMA).

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 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 August 2003, and conflicting national standards shall be withdrawn at the latest by August 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovak Republic, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This standard specifies the characteristics of swivel nuts for inch series pipe couplings, 37°, in heat resisting steel, for aerospace applications.

Nominal pressure: Class D in accordance with ISO 6771.

<https://standards.iteh.ai/catalog/standards/sist/fb1cd514-cde9-4b40-b7ec-66b457139ed4/sist-en-4551-2004>

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

- | | |
|----------|--|
| ISO 3161 | <i>Aerospace - UNJ threads - General requirements and limit dimensions.</i> |
| ISO 6771 | <i>Aerospace - Fluid systems and components - Pressure and temperature classifications.</i> |
| EN 2424 | <i>Aerospace series - Marking of aerospace products.</i> |
| EN 2491 | <i>Aerospace series - Molybdenum disulphide dry lubricants - Coating methods.</i> |
| EN 2786 | <i>Aerospace series - Electrolytic silver plating of fasteners ¹⁾.</i> |
| EN 3468 | <i>Aerospace series - Steel FE-PA13 - Softened - $500 \leq R_m \leq 700$ MPa - Forgings – $D_e \leq 100$ mm ¹⁾.</i> |
| EN 3487 | <i>Aerospace series - Steel FE-PA13 - Softened - $500 \leq R_m \leq 700$ MPa - Bars for machining - $D_e \leq 100$ mm ¹⁾.</i> |
| EN 4560 | <i>Aerospace series - Pipe couplings, 37°, spherical, up to 21 000 kPa - Inch series - Technical specification.</i> |

1) Published as AECMA Prestandard at the date of publication of this standard

EN 4551:2003 (E)

3 Required characteristics**3.1 Configuration – Dimensions – Tolerances – Masses**

See Figure 1 and Tables 1 to 4. Dimensions and tolerances are in millimetres. They apply before lubrication except for silver plating parts.

Table 1

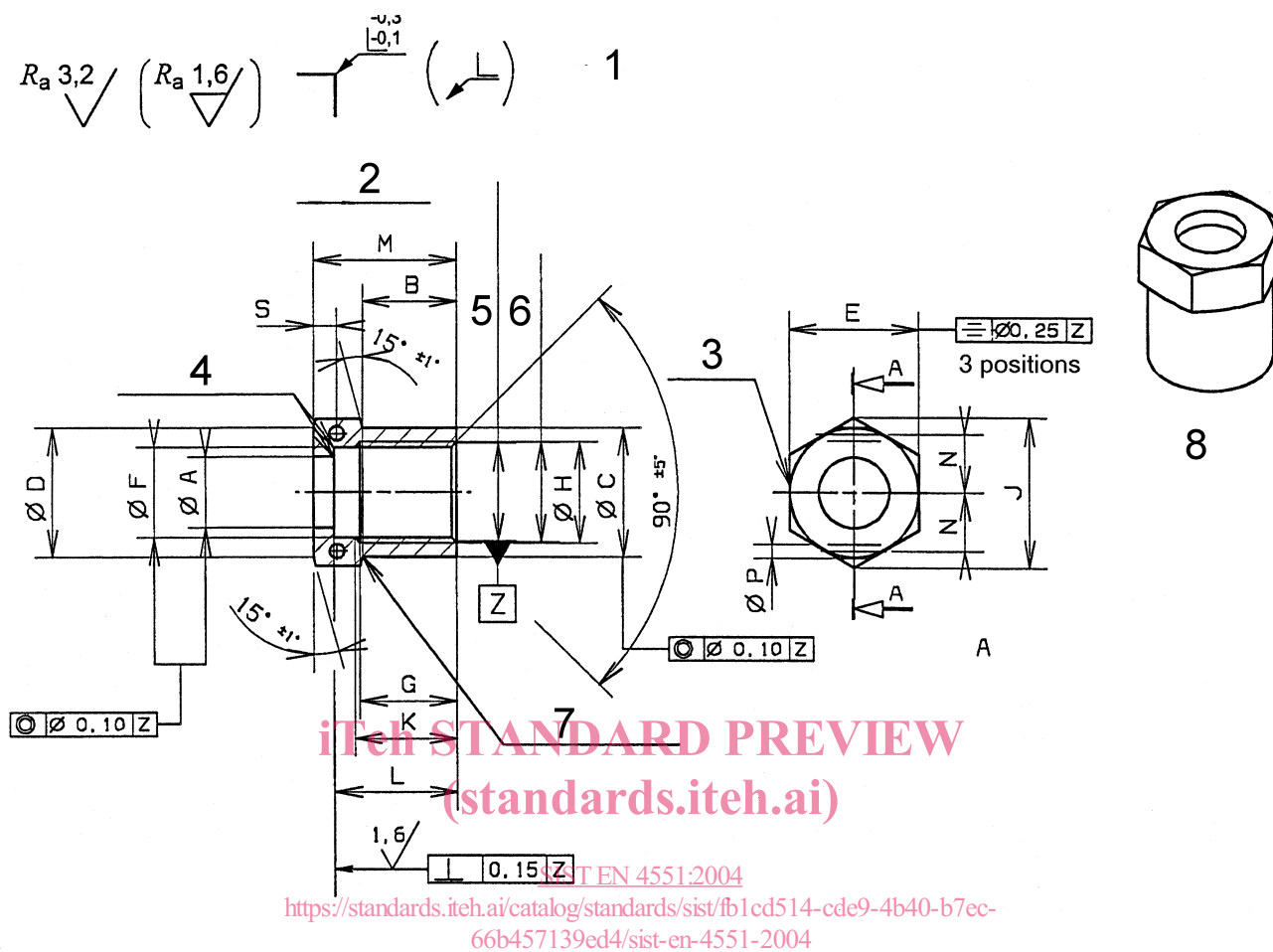
Code	Locking wire hole option
N	without locking wire hole
Y	with 2 locking wire holes

3.2 Materials

EN 3468 with minimum hardness HB > 140 or EN 3487 with minimum hardness HB > 140

3.3 Surface treatments**Table 2**

Code	Surface treatment	Specification
A	None	-
B	Molybdenum disulphide coating	EN 2491
C	Silver plating	EN 2786



EN 4551:2003 (E)

Table 3

Dimensional code ^a	Nominal diameter	Thread ^b	A +0,1 0	B	C +0,25 0	D +0,5 0	E +0,05 -0,25	F	G min.	H ± 0,4	J min.	K max.	L +0,25 0	M	Mass ≈ quoted in kg/ 1000 parts
03	4,763	375 0- 24UNJF -3B	6,15	10,10 10,85	12,30	12,45	12,70	8,55 8,75	7,00	9,90	14,25	10,20	13,90	15,65 16,20	9,95
04	6,350	437 5- 20UNJF -3B	7,75	10,45 11,25	13,85	14,00	14,30	9,95 10,15	7,45	11,50	16,00	11,20	14,25	16,05 16,55	11,00
05	7,924	500 0- 20UNJF -3B	9,50	10,80 11,55	15,50	15,60	15,90	11,55 11,75	8,45	13,10	17,90	12,20	15,35	17,30 17,80	12,50
06	9,525	562 5- 18UNJF -3B	11,15	11,50 12,25	17,10	17,20	17,50	13,00 13,20	9,30	14,70	19,70	12,70	16,05	18,75 19,00	16,30
08	12,700	750 0- 16UNJF -3B	14,45	12,15 12,90	21,85	22,00	22,25	17,60 17,80	9,75	19,45	25,10	14,45	18,25	20,80 21,30	26,50
10	15,875	875 0- 14UNJF -3B	17,70	15,30 16,05	25,00	23,55	25,40	19,15 19,40	9,75	22,60	26,90	14,45	20,60	20,80 21,30	33,50
12	19,050	1.062 5- 12UNJ- 3B	21,20	14,55 15,30	29,85	31,50	31,80	25,00 25,25	12,40	27,40	35,90	18,75	21,90	24,35 24,85	56,70
16	25,400	1.312 5- 12UNJ- 3B	27,65	16,20 16,95	36,30	37,85	38,20	31,35 31,60	13,60	33,70	43,20	19,95	24,30	26,70 27,25	75,40

^a This code corresponds to the nominal diameter given in 16 th of inches within two digits.

^b Quoted in inches in accordance with ISO 3161

Table 4

(When locking wire hole option code is "Y")

Dimensional code ^a	Nominal diameter	N	P	S ± 0,25
03	4,763	5,3	1,45	2,55
		5,6	1,55	
04	6,350	6,2	1,45	2,55
		6,5	1,55	
05	7,924	7,1	1,65	2,55
		7,4	1,90	
06	9,525	7,9	1,65	2,55
		8,1	1,90	
08	12,700	10,2	1,65	3,55
		10,6	1,90	
10	15,875	11,8	1,65	3,55
		12,3	1,90	
12	19,050	14,7	1,65	3,55
		15,2	1,90	
16	25,400	18,2	1,65	3,55
		18,6	1,90	

^a This code corresponds to the nominal diameter given in 16 th of inches within two digits.