SLOVENSKI STANDARD
SIST EN 3019:2008

01-september-2008

Aeronavtika - Samovarovalne zakovne matice, premiļ ne, dvostranske, iz toplotnoodpornega jekla FE-PA92HT (A286) - Klasifikacija: 1 100 MPa (pri temperaturi okolice)/650 ÁC

Aerospace series - Self-locking plate nuts, floating, two-lug, in heat resisting steel FE-PA92HT (A286) - Classification: 1 100 MPa (at ambient temperature)/650 °C

Luft- und Raumfahrt - Selbstsichernde Anniet muttern, beweglich, beidseitiger Flansch, aus hochwarmfestem Stahl FE-PA92HT (A286) - Klasse: 1 100 MPa (bei Raumtemperatur)/650 °C

Série aérospatiale - Ecrous à river à freinage interne, flottants, double patte, en acier résistant à chaud FE-PA92HT (A286) - Classification : 1 100 MPa (à température ambiante)/650 °C

Ta slovenski standard je istoveten z: **EN 3019:2008**

ICS:

49.030.30 Matice Nuts

SIST EN 3019:2008 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 3019

May 2008

ICS 49.030.30

English Version

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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 3019:2008) 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of an identical text or by endorsement, at the latest by November 2008, and conflicting national standards shall be withdrawn at the latest by November 2008.

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1 Scope

This standard specifies the characteristics of self-locking, floating plate nuts in FE-PA2601 for aerospace applications.

Classification: 1 100 MPa[1)]/650 °C[2)]

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 2399, *Heat resisting steel FE-PA92-HT — $R_m \geq 900$ MPa — Bars for forged bolts — $D \leq 25$ mm Aerospace series*[3)]

EN 2424, *Aerospace series — Marking of aerospace products*[4)]

EN 3004, *Aerospace series — Nuts, self-locking, MJ threads, in heat resisting steel FE-PA2601 (A286) — Classification: 1 100 MPa (at ambient temperature)/650 °C — Technical specification*

EN 3638, *Aerospace series — Heat resisting alloy FE-PA2601 (X6NiCrTiMoV26-15), Consumable electrode remelted, Solution and precipitation treated — Sheet, strip and plate 0,5 mm ≤ a ≤ 10 mm*[4)]

EN 3639, *Aerospace series — Heat resisting alloy FE-PA2601 — Softened and cold worked — Wire for forged fasteners $D \leq 15$ mm, 900 MPa ≤ $R_m \leq$ 1 100 MPa*[4)]

ISO 5855-2, *Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts*

3 Required characteristics

3.1 Configuration, dimensions, tolerances, masses

See Figure 1 and Table 1.

3.2 Material

Nut element: EN 2399, EN 3638 or EN 3639.

Cage: EN 3638.

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1) The strength class of the bolt concerned which can withstand the load at ambient temperature when tested at 100 % load without cracking or breaking of the nut.

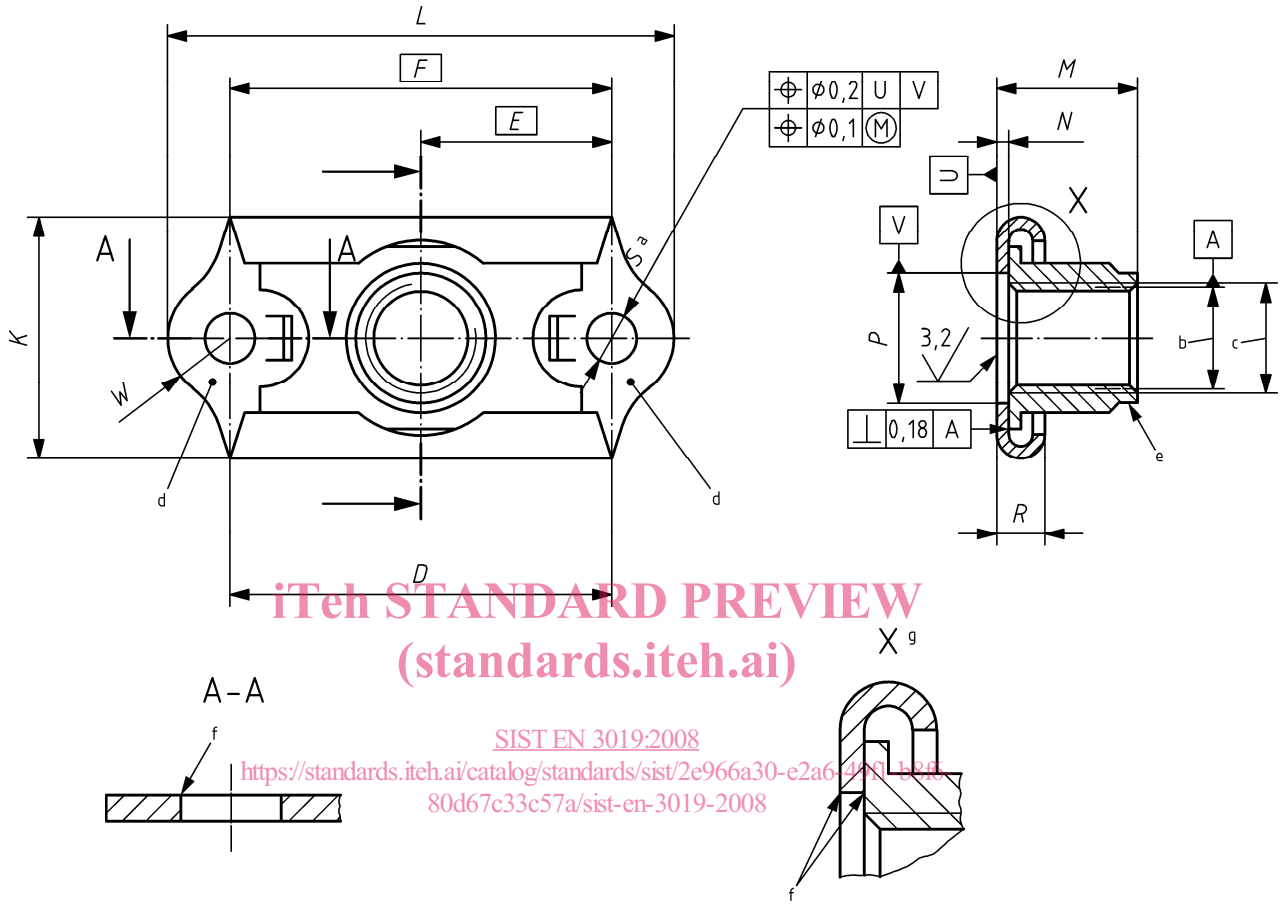
2) Maximum test temperature of the parts.

3) Published as ASD-prestandard at the date of publication of this standard.

4) Published as ASD-standard.

Dimensions in millimetres

$\sqrt{6,3}$ $(\sqrt{3,2})$ Thread surface will be as achieved by normal methods of manufacture.



Remove sharp edges 0,1 mm to 0,4 mm
Details of form not stated are left to the manufacturer's discretion.

a Radial float in all lines (see table)

b Pitch diameter

c Thread

d Marking in these areas

e Form out-of-round in this area to achieve the self-locking requirement (tooling marks permissible)

f Chamfer or radius max. 0,1

g Enlarged

Figure 1 — Configuration

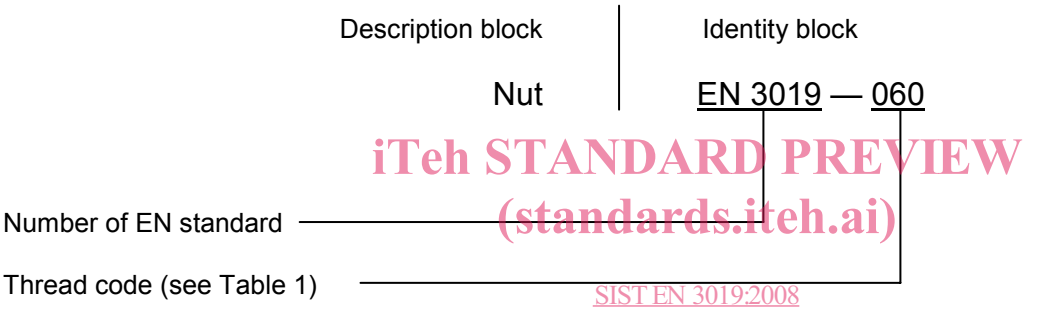
Table 1 — Dimensions and masses

Thread[a]		*D* mm	*E* mm	*F* mm	*K* mm	*L* mm	*M* mm	*N* mm	*P* mm	*R* mm	*S* mm	*W* mm	Radial float *Z* mm	Mass 1 000 pieces kg
Code	**Designation**	max.			max.	max.	max.	nom.	0/-0,5	min.	+ 0,2 0	nom.	min.	≈
050	MJ5 × 0,8-4H6H	19	9,5	19	12	25,2	7	0,6	∅ 6,5	2,4	∅ 2,5	3	0,5	2,54
060	MJ6 × 1-4H5H	22	11	22	13,5	29,2	9		∅ 7,5			3,5		4,75
070	MJ7 × 1-4H5H	26	13	26	16	33,2	10	0,8	∅ 8,5	3,2	∅ 3,5			6,40

[a] In accordance with ISO 5855-2. In the self-locking zone, the tolerances apply before forming out-of-round.

4 Designation

EXAMPLE



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

5 Marking

EN 2424, Style N, as indicated in Figure 1.

6 Technical specification

According to EN 3004.