SLOVENSKI STANDARD
SIST EN 4113:2024

01-februar-2024

Aeronavtika - Objemke v obliki zanke (P-oblika) iz korozijsko odpornega jekla, pasivirane, z zaščitno prevleko iz gume - Mere, mase

Aerospace series - Clamps, loop ("P" type) in corrosion resisting steel, passivated with rubber cushioning - Dimensions, masses

Luft- und Raumfahrt - Schellen in Schlaufenform (P-Form) aus korrosionsbeständigem Stahl, passiviert mit Profilgummi - Maße, Massen

Série aérospatiale - Colliers, boucle en P en acier résistant à la corrosion, passivés avec profilé en élastomère - Dimensions, masses

Ta slovenski standard je istoveten z: **EN 4113:2023**

ICS:

49.030.99	Drugi vezni elementi	Other fasteners

SIST EN 4113:2024 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 4113

December 2023

ICS 49.030.99

Supersedes EN 4113:2009

English Version

Aerospace series - Clamps, loop ("P" type) in corrosion resisting steel, passivated with rubber cushioning - Dimensions, masses

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This European Standard was approved by CEN on 15 October 2023.

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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-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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

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

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European foreword

This document (EN 4113:2023) 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 document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, 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 2024, and conflicting national standards shall be withdrawn at the latest by June 2024.

This document supersedes EN 4113:2009.

EN 4113:2023 includes the following significant technical changes with respect to EN 4113:2009:

— normative references were updated;

— abbreviation “FPM” was changed to “FKM” throughout the document.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom

1 Scope

This document specifies the required characteristics of loop style clamps (“P” type) in corrosion resisting steel, passivated with various cushion materials.

These clamps are used for supporting aerospace pipe assemblies and electrical cable bundles.

For temperature range and environmental considerations see the various cushion material standards.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 2261, *Aerospace series — Silicone rubber (VMQ) — Hardness 70 IRHD*

EN 2424, *Aerospace series — Marking of aerospace products*

EN 2516, *Aerospace series — Passivation of corrosion resisting steels and decontamination of nickel base alloys*

EN 2566, *Aerospace series — Fluorocarbon rubber (FKM) — Hardness 70 IRHD*

EN 3078:—[1], *Aerospace series — P, Q and saddle clamps with rubber cushion — Technical specification*

EN 3488, *Aerospace series — Steel X6CrNiTi18-10 (1.4541) — Air melted — Softened — Sheets and strips — a ≤ 6 mm — 500 MPa ≤ R_m ≤ 700 MPa*

EN 3825, *Aerospace series — Fluorosilicone rubber (FVMQ) — Hardness 60 IRHD*

EN 3826, *Aerospace series — Fluorosilicone rubber (FVMQ) — Hardness 70 IRHD*

EN 4115, *Aerospace series — Cushion, rubber for clamps — Dimensions, masses*

EN 10088-1, *Stainless steels — Part 1: List of stainless steels*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

[1] Published as ASD-STAN Prestandard at the date of publication of this standard by AeroSpace and Defence Industries Association of Europe – Standardization (ASD-STAN) (https://asd-stan.org/).