

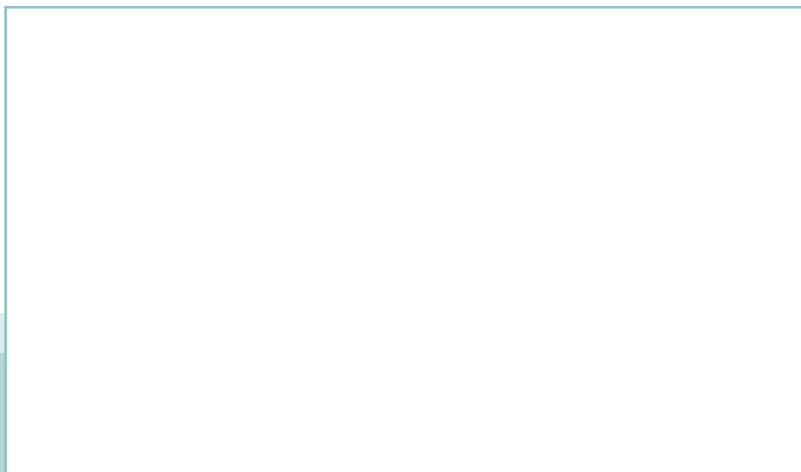
SVENSK STANDARD

SS-EN 4686:2014



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Aerospace series – Pipe coupling 8°30' in titanium alloy – Equipped blind ferrules



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EUROPEAN STANDARD

EN 4686

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2014

ICS 49.080

English Version

Aerospace series - Pipe coupling 8°30' in titanium alloy - Equipped blind ferrules

Série aérospatiale - Système de raccordement 8°30' en
alliage de titane - Obturateurs équipés

Luft- und Raumfahrt - Rohrverschraubung 8°30' aus
Titanlegierung - Ausgerüstete Blindstutzen

This European Standard was approved by CEN on 4 January 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.

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

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

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Foreword

This document (EN 4686:2014) 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of an identical text or by endorsement, at the latest by April 2015, and conflicting national standards shall be withdrawn at the latest by April 2015.

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1 Scope

This European Standard specifies the characteristics of equipped blind ferrules for pipe couplings 8°30', in titanium alloy, for aerospace applications.

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.

DIN 471, *Retaining rings for shafts — Normal type and heavy type* ¹⁾

EN 3269, *Aerospace series — Pipe coupling 8°30' in titanium alloy — Ferrules, blind, with dynamic beam seal end*

EN 3275, *Aerospace series — Pipe coupling 8°30' up to 28 000 kPa — Dynamic beam seal — Metric series — Technical specification*

EN 3311, *Aerospace series — Titanium alloy TI-P64001 (Ti-6Al-4V) — Annealed — Bar for machining — $D < 110$ mm*

EN 3314, *Aerospace series — Titanium alloy TI-P64001 — Solution treated and aged — Bar for machining — $D \leq 75$ mm* ²⁾

EN 4031, *Aerospace series — Pipe coupling 8°30' in titanium alloy — Nuts for welded ferrule*

ISO 5855-3, *Aerospace — MJ threads — Part 3: Limit dimensions for fittings for fluid systems*

MIL-PRF-24635, *Performance specification — Coating systems, weather resistant, exterior use* ³⁾

FED-STD-595, *Federal Standard: colors used in government procurement (Color FS 11136)* ³⁾

3 Required characteristics

3.1 Configuration – Dimensions – Mass

According to Figure 1 and Table 1. Dimensions applied before lubricating.

See EN 3269 and EN 4031 for missing dimensions.

3.2 Surface roughness

According to Figure 1.

3.3 Materials

According to EN 3311 or EN 3314 for nuts and blind ferrules.

Stainless steel for external retaining rings according to DIN 471.

¹⁾ To be obtained from: Beuth Verlag, Burggrafenstr. 6, 10787 Berlin (www.beuth.de).

²⁾ Published as ASD-STAN Prestandard at the date of publication of this standard (www.asd-stan.org).

³⁾ Published by: DoD National (US) Mil. Department of Defense <http://www.defenselink.mil/>