

**Aerospace series – Pipe coupling 8°30' in  
titanium alloy – Adaptors with lockring**

Europastandarden EN 3566:2001 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 3566:2001.

The European Standard EN 3566:2001 has the status of a Swedish Standard. This document contains the official English version of EN 3566:2001.

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 3566**

October 2001

ICS 49.080

English version

## Aerospace series - Pipe coupling 8°30' in titanium alloy - Adaptors with lockring

Série aérospatiale - Système de raccordement 8°30' en  
alliage de titane - Raccords à planter à bague de sécurité

Luft- und Raumfahrt - Rohrverschraubung 8°30' aus  
Titanlegierung - Anschlußverschraubungen mit  
Sicherungsring

This European Standard was approved by CEN on 20 January 2001.

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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

## Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries 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 April 2002, and conflicting national standards shall be withdrawn at the latest by April 2002.

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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

This standard specifies the characteristics for adaptors, with lockring, for pipe couplings 8°30', in titanium alloy, for installing in a boss for aerospace applications.

Nominal pressure: up to 28 000 kPa

Temperature range: – 55 °C to + 135 °C

## 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 5855-3	Aerospace – MJ threads – Part 3: Limit dimensions for fittings for fluid systems
EN 2424	Aerospace series – Marking of aerospace products
EN 2491	Aerospace series – Molybdenum disulphide dry lubricants – Coating methods
EN 2602	Aerospace series – Ports for installation of straight metric-size unions with locking ring – Dimensions <sup>1)</sup>
EN 2603	Aerospace series – Straight metric-size unions with locking ring – Port end – Dimensions <sup>1)</sup>
EN 2604	Aerospace series – Straight metric-size unions with locking ring – 8° 30' union interface – Dimensions <sup>1)</sup>
EN 2645	Aerospace series – Straight metric-size unions with locking ring – Locking ring – Dimensions <sup>1)</sup>
EN 3079	Aerospace series – Pipe coupling 8° 30' up to 28 000 kPa – Adaptors – Metric series – Technical specification <sup>1)</sup>
EN 3311	Aerospace series – Titanium alloy TI-P64001 – Annealed – Bar for machining – $D \leq 150$ mm <sup>1)</sup>
EN 3314	Aerospace series – Titanium alloy TI-P64001 – Solution treated and aged – Bar for machining – $D \leq 75$ mm <sup>1)</sup>
AMS 2488D	Anodic Treatment - Titanium and Titanium Alloys – Solution pH13 or Higher <sup>2)</sup>

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

2) Published by: Society of Automotive Engineers, Inc. (SAE), 400 Commonwealth Drive, Warrendale, PA 15096-0001.

### 3 Required characteristics

#### 3.1 Configuration – Dimensions – Mass

According to figure 1 and table 1. Dimensions apply before lubricating or anodizing.

The dimensions specified are those required by design to meet installation and system requirements.

The dimensions not specified are at manufacturer's option provided that the qualification and acceptance requirements of EN 3079, type II are met.

#### 3.2 Surface roughness

According to figure 1, unless otherwise specified in the design documentation.

#### 3.3 Materials (for adaptor)

According to EN 3311 or EN 3314

#### 3.4 Surface treatments (for adaptor)

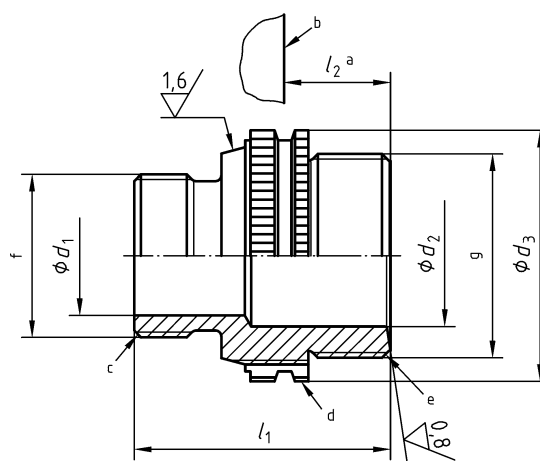
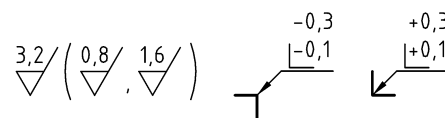
Lubrication: according to EN 2491, on all surfaces except in the flow hole

Prior to application of the lubricant, the surface shall be abrasive blasted using non-metallic grit.

Film thickness: 0,005 mm to 0,013 mm

Alternative: Anodizing according to AMS 2488D, type 2.

Dimensions in millimetres



- a Design dimension only
- b Port end according to EN 2602
- c Port end according to EN 2603
- d Lockring according to EN 2645
- e Adaptor interface according to EN 2604
- f Thread 1
- g Thread 2

Figure 1