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 **NBN**



**Aerospace series - Tie rod with integrated bolts - Assembly code
D, E and F**

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EUROPEAN STANDARD
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English Version

**Aerospace series - Tie rod with integrated bolts - Assembly
code D, E and F**

Série aérospatiale - Bielle avec axes intégrés - Code
assemblage D, E et F

Luft- und Raumfahrt - Zug-Druck Stange mit
integrierten Bolzen - Zusammenbaucode D, E und F

This European Standard was approved by CEN on 25 June 2016.

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European foreword

This document (EN 4694:2017) 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of an identical text or by endorsement, at the latest by April 2018, and conflicting national standards shall be withdrawn at the latest by April 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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EN 4694:2017 (E)**Introduction**

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1 Scope

This standard specifies the dimensions and tolerances of rod assemblies for aerospace applications with two adjustable ends with integrated bolts for interior and sub structure in the temperature range – 55 °C to 85 °C. The rod ends should not be screwed completely apart.

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 6799, *Retaining washers for shafts*¹⁾

DIN 65038-1, *Aerospace — Steel, nickel- and cobalt-alloy bars — Technical specification*¹⁾

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

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

EN 4614, *Aerospace series — Spherical plain bearings in corrosion resisting steel with self-lubricating liner wide series — Dimensions and loads — Inch series*

EN 4691-1, *Aerospace series — Tie rod with integrated bolts — Part 1: Technical specification*

EN 4692, *Aerospace series — Tie rod with integrated bolts — Locking clip*

EN 10088-3, *Stainless steels — Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes*

ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 2768-2, *General tolerances — Part 2: Geometrical tolerances for features without individual tolerance indications*

ISO 8075, *Aerospace series — Surface treatment of hardenable stainless steel parts*

LN 9368-4, *Aerospace — Designation of surface treatments — Part 4: Code numbers for methods of anodic treatment*¹⁾

LN 9368-7, *Aerospace — Designation of surface treatments — Part 7: Code numbers for methods of organic coating*¹⁾

WL 1.4548 (all parts), *Aerospace — Precipitation-hardening stainless chromium-nickel-copper steel with approx. 0,05C-16Cr-4Cu-4Ni*¹⁾

WL 3.1354 (all parts), *Aerospace — Wrought aluminium alloy with approx. 4,4Cu-1,5Mg-0,6Mn*¹⁾

FAR/JAR/CS 25.853, *Compartment Interiors*²⁾

1) Published by: Beuth Verlag GmbH. www.beuth.de

2) Published by: European Aviation Safety Agency, Postfach 101253, D-50452 Koeln, Germany