

EN 4834:2018



NBN EN 4834:2018



Aerospace series - Adaptor, Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Port for Ring locked fitting - Inch Series - Geometric configuration

Valid from 28-08-2018

ICS: 49.080

EUROPEAN STANDARD
 NORME EUROPÉENNE
 EUROPÄISCHE NORM

EN 4834

August 2018

ICS 49.080

English Version

**Aerospace series - Adaptor, Pipe coupling 24° Cone up to
 35 000 kPa (5 080 psi) Port for Ring locked fitting - Inch
 Series - Geometric configuration**

Série aérospatiale - Adapteur, Système de
 raccordement interface conique 24° jusqu'à 35 000 kPa
 (5 080 psi) Implantation pour raccord avec bague de
 sécurité - Série inch - Configuration géométrique

Luft- und Raumfahrt - Adapter, Rohrverschraubung
 24° Konus bis 35 000 kPa (5 080 psi) Einschraubblöcher
 für gerade Anschlussverschraubung mit
 Sicherungsring - Inch-Reihe - Konstruktionsblatt

This European Standard was approved by CEN on 3 December 2017.

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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 4834:2018 (E)

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Requirements	6
4	Designation	9
5	Marking	9
6	Technical specification	9
Bibliography		10

European foreword

This document (EN 4834:2018) 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 February 2019, and conflicting national standards shall be withdrawn at the latest by February 2019.

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.

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

EN 4834:2018 (E)

Introduction

This European Standard is co-owned standard and a functional equivalent of AS5551. There should be no technical objection to use AS5551 as replacement of EN 4834 parts. Further revisions to this standard shall be coordinated with the SAE committee.

European standards use the International System of units (SI); however, large segments of the aerospace industry make use of other measurement systems as a matter of common working practice. All dimensions and units used in this standard are given in SI units, with other units also indicated for the convenience of the user.

The decimal sign used in European standards is the comma (“,”); however, the comma is not used in common working practice with non-SI dimensions. Therefore, in common with many other aerospace standards, the decimal point (“.”) is used in this standard when providing dimensions in inch-pound units.

NOTE The use of non-SI units and the decimal point in this standard does not constitute general acceptance of measurement systems other than SI within European standards.

1 Scope

This European Standard specifies the dimensions, tolerances and requirements of a port for a fluid connection with ring locked fitting, for use in aircraft systems at nominal operating pressure of 35 000 kPa (5 080 psi) maximum and temperature range of -54 to $+135$ °C (-65 to $+275$ °F).

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 2815, *Aerospace series — Steel FE-PM1802 (X5CrNiCu15-5) — Consumable electrode remelted — Solution treated and precipitation treated — Bar for machining — a or $D \leq 200$ mm — $R_m \geq 965$ MPa*

EN 2817, *Aerospace series — Steel FE-PM1802 (X5CrNiCu15-5) — Consumable electrode remelted — Solution treated and precipitation treated — Bar for machining — a or $D \leq 200$ mm — $R_m \geq 1\,070$ MPa*

EN 4832, *Aerospace series — Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Ring-locked fitting and Ring-locked fitting-reducer — Inch Series — Technical specification¹⁾*

EN 4833, *Aerospace series — Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Ring-locked fitting — Flared End — Inch Series — with Extra Fine Thread Pitch¹⁾*

EN 4835, *Aerospace series — Installation and removal requirements for Ring locked fitting and reducer, 24° Cone up to 35 000 kPa (5 080 psi) — Inch Series¹⁾*

EN 4836, *Aerospace series — Adaptor, Pipe coupling 24° Cone up to 35 000 kPa (5 080 psi) Ring-locked fitting Reducer — Flared End — with Extra Fine Thread Pitch — Inch Series¹⁾*

ISO 3161, *Aerospace — UNJ threads — General requirements and limit dimensions*

ARP4296, *Drawing interpretations, standard machining practice, tube fittings and connectors, fluid systems²⁾*

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

2) Published by: SAE International (www.sae.org).