SLOVENSKI STANDARD
SIST EN 4555:2004

01-maj-2004

Aerospace series - Pipe coupling 37°, in heat resisting steel - Ferrules, welded end - Inch series

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Luft- und Raumfahrt - Rohrverschraubung 37° aus hochwarmfestem Stahl - Anschweißstutzen - Inch-Reihe

Série aérospatiale - Systeme de raccordement 37°, en acier résistant a chaud - Ajustages a souder - Série inch

Ta slovenski standard je istoveten z: **EN 4555:2003**

ICS:

49.080	Letalski in vesoljski hidravliļ ni sistemi in deli	Aerospace fluid systems and components

SIST EN 4555:2004 **en**

EUROPEAN STANDARD

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EUROPÄISCHE NORM

EN 4555

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ICS 49.080

English version

Aerospace series - Pipe coupling 37°, in heat resisting steel - Ferrules, welded end - Inch series

Série aérospatiale - Système de raccordement 37°, en acier résistant à chaud - Ajustages à souder - Série inch

This European Standard was approved by CEN on 14 September 2002.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovak Republic, Spain, Sweden, Switzerland and United Kingdom.

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

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Contents

Foreword

This document EN 4555:2003 has been prepared by the European Association of Aerospace Manufacturers (AECMA).

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 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 August 2003, and conflicting national standards shall be withdrawn at the latest by August 2003.

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

1 Scope

This standard specifies the characteristics of welded ferrules for inch series pipe couplings, 37°, in heat resisting steel, for aerospace applications.

Nominal pressure: Class D in accordance with ISO 6771

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 6771 *Aerospace - Fluid systems and components - Pressure and temperature classifications.*

EN 2424 *Aerospace series - Marking of aerospace products.*

EN 3487 *Aerospace series - Steel FE-PA13 - Softened - 500 ≤ R_m ≤ 700 MPa - Bars for machining - D_e ≤ 100 mm* [1)].

EN 4549 *Aerospace series - Pipe coupling, in heat resisting steel or in heat resisting nickel alloy - Coupling end, welded - Design configuration - Inch series.*

EN 4550-4 *Aerospace series - Pipe couplings, 37° - Design configuration - Inch series - Part 4 : Female sealing ends.*

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

EN 4560 *Aerospace series - Pipe couplings, 37°, spherical, up to 21 000 kPa - Inch series - Technical specification.*

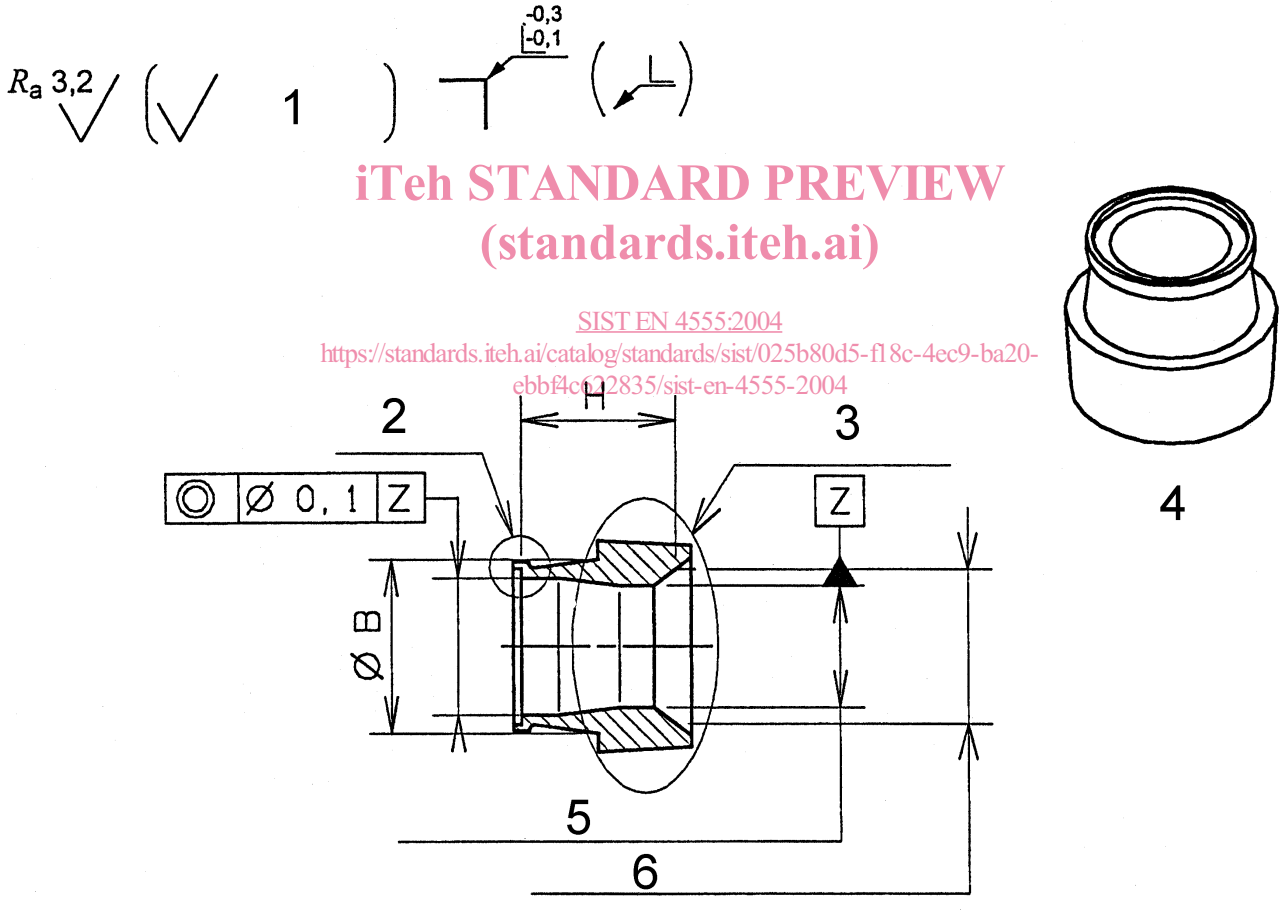
3 Required characteristics

3.1 Configuration – Dimensions – Tolerances – Masses

See Figure 1 and Table 1. Dimensions and tolerances are in millimetres.

3.2 Material

EN 3487 with minimum hardness HB > 140



Key

1 See EN 4550-4
2 Weld end per C
3 Sealing end per G
4 3 D view
5 (∅ A per EN 4550-4)
6 (∅ E per EN 4550-4)

Figure 1

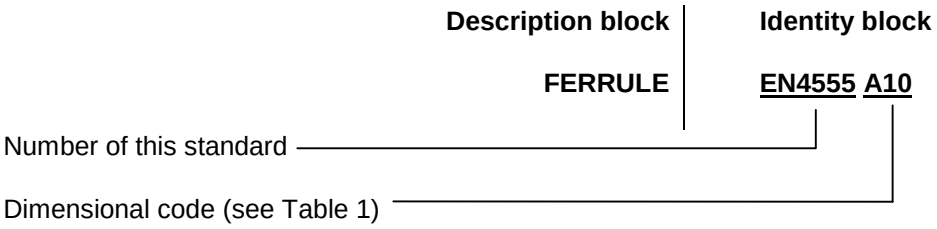
Table 1

Dimensional code [a]	Nominal diameter	Wall thickness of tube	*B*		*C*	*G*	*H*	Mass
			min.	max.			± 0,25	≈ quoted in kg/ 1000 parts
A03	4,763	0,711	5,87	5,94	EN4549A003	EN4550-4-03	10,00	2,72
B03		0,889			EN4549B003			
A04	6,350	0,711	7,47	7,54	EN4549A004	EN4550-4-04	10,30	
B04		0,889			EN4549B004			
A05	7,925	0,711	9,22	9,29	EN4549A005	EN4550-4-05		4,08
B05		0,889			EN4549B005			
A06	9,525	0,711	10,90	10,97	EN4549A006	EN4550-4-06	11,20	4,99
B06		0,889			EN4549B006			
A08	12,700	0,711	14,20	14,27	EN4549A008	EN4550-4-08	12,70	10,89
B08		0,889			EN4549B008			
A10	15,875	0,711	17,45	17,52	EN4549A010	EN4550-4-10	13,75	14,06
B10		0,889			EN4549B010			
A12	19,050	0,711	20,91	20,98	EN4549A012	EN4550-4-12	13,70	20,41
B12		0,889			EN4549B012			
A16	25,400	0,711	27,39	27,45	EN4549A016	EN4550-4-16	14,70	28,58
B16		0,889			EN4549B016			

[a] This code corresponds to :
- tube wall thickness (A : 0,711 mm; B : 0,889 mm)
- nominal diameter given in 16 th of inches within two digits.

4 Designation

EXAMPLE :



NOTE If necessary, the code I9005 shall be placed between the description block and the identity block.

5 Marking

According to EN 2424, style A and Figure 1.

6 Technical specification

According to EN 4560