



SLOVENSKI STANDARD SIST EN 4562:2004

01-maj-2004

Aerospace series - Pipe coupling, welded, in heat resisting steel - Reductors - Inch series

Aerospace series - Pipe coupling, welded, in heat resisting steel - Reductors - Inch series

Série aérospatiale - Systeme de raccordement a souder, en acier résistant a chaud - Réducteurs - Série inch

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Série aérospatiale - Systeme de raccordement a souder, en acier résistant a chaud - Réducteurs - Série inch

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Ta slovenski standard je istoveten z: EN 4562:2003

ICS:

49.080

Številni sistemi za povezavo cevi, varjeni, iz toplotno odporne jeklene legirane pločevine, za letalske sisteme

Aerospace fluid systems and components

SIST EN 4562:2004

en

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EUROPEAN STANDARD

EN 4562

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2003

ICS 49.080

English version

Aerospace series - Pipe coupling, welded, in heat resisting steel - Reductors - Inch series

Série aérospatiale - Système de raccordement à souder,
en acier résistant à chaud - Réducteurs - 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.

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

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Foreword

This document EN 4562:2003 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.

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1 Scope

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

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Nominal pressure: Class D per 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	<i>Aerospace - Fluid systems and components - Pressure and temperature classifications.</i>
EN 2424	<i>Aerospace series - Marking of aerospace products.</i>
EN 3363	<i>Aerospace series - Steel FE-CM38 - Solution treated - $R_m \geq 485$ MPa - Sand or investment casting¹⁾.</i>
EN 3468	<i>Aerospace series - Steel FE-PA13 - Softened - $500 \leq R_m \leq 700$ MPa - Forgings - $D_e \leq 100$ mm¹⁾.</i>
EN 3487	<i>Aerospace series - Steel FE-PA 13 - Softened - $500 \leq R_m \leq 700$ MPa - Bars for machining - $D_e \leq 100$ mm¹⁾.</i>
EN 4549	<i>Aerospace series - Pipe coupling, in heat resisting steel or in heat resisting nickel alloy - Coupling end, welded - Design configuration - Inch series.</i>

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

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

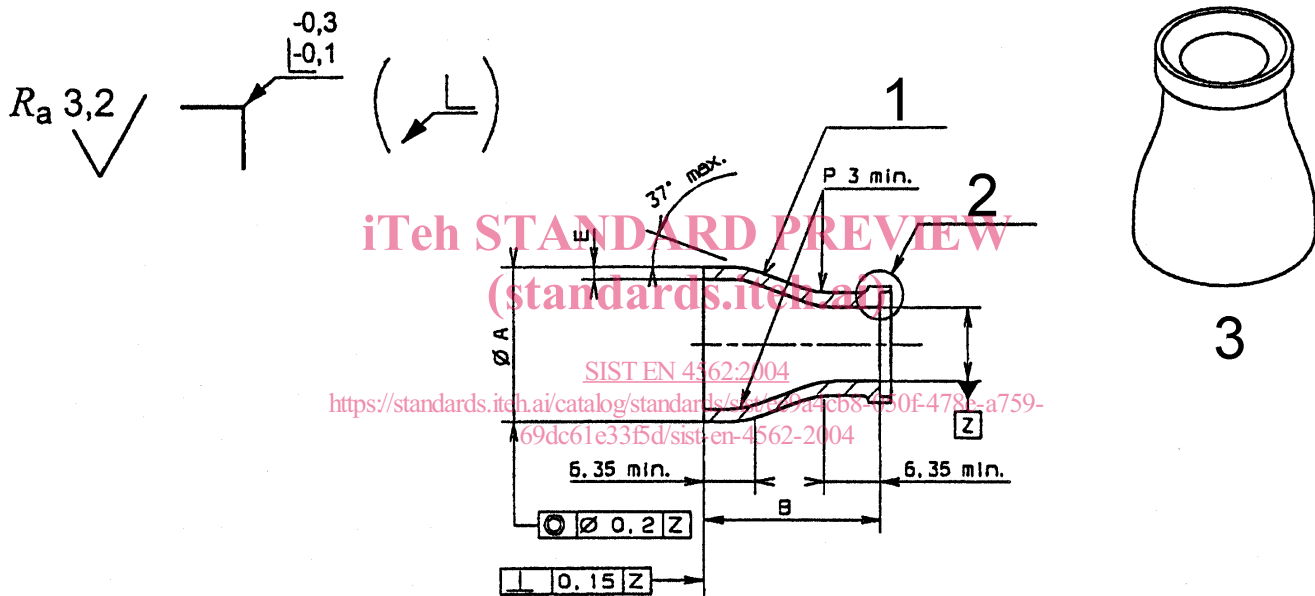
3 Required characteristics

3.1 Configuration – Dimensions – Tolerances – Masses

See Figures 1 and 2 and Tables 1 and 2. Dimensions and tolerances are in millimetres.

3.2 Materials

EN 3363 or EN 3468 or EN 3487



Key

- 1 Marking
- 2 Weld end per C
- 3 3 D view

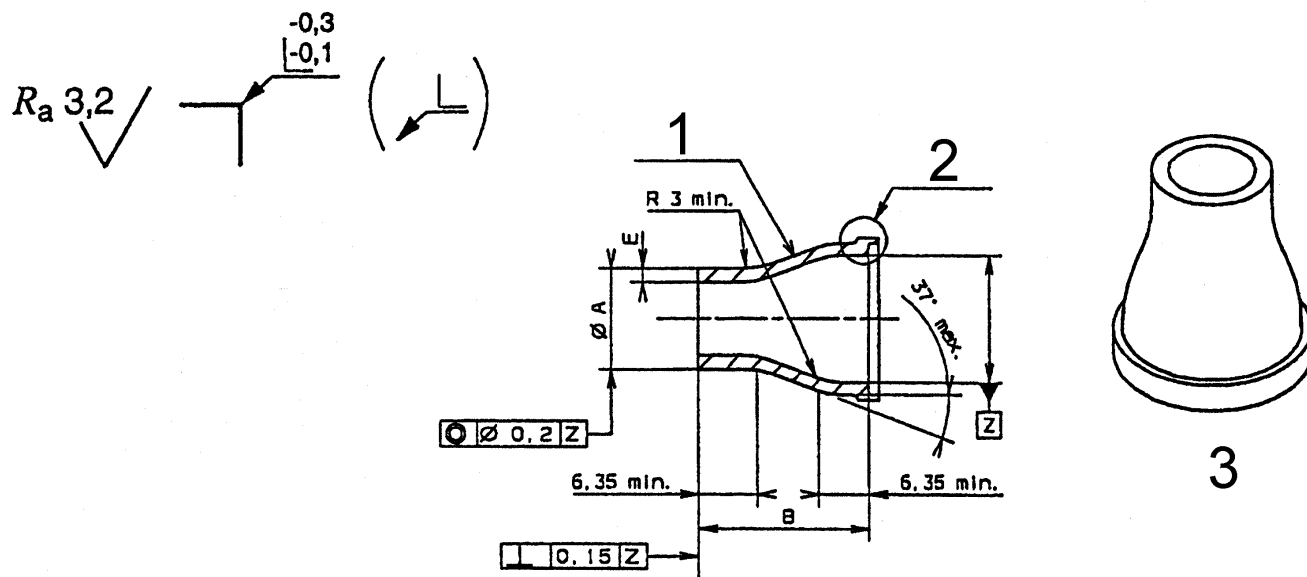
Figure 1 – Smallest nominal diameter on weld end side

Table 1 – Smallest nominal diameter on weld end side

Dimensional code ^a	Nominal diameter		Wall thickness of tube	A Théo.	B ± 0,50	C	E ± 0,10	Mass ≈ quoted in kg/1000 parts	
	on weld end side	on the other side							
A0304	4,775	6,350	0,711	6,35	17,50	EN4549A003	0,95	1,90	
B0304			0,889						EN4549B003
A0305		7,925	0,711	7,925		EN4549A003			
B0305			0,889						EN4549B003
A0306		9,525	9,525	0,711		22,60			
B0306				0,889					EN4549B003
A0405	6,350	7,925	0,711	7,925	17,50	EN4549A004	0,95	2,55	
B0405			0,889						EN4549B004
A0406		9,525	9,525	0,711		EN4549A004			
B0406				0,889					EN4549B004
A0408		12,700	12,7	0,711		22,60			
B0408				0,889					EN4549B004
A0506	7,925	9,525	0,711	9,525	17,50	EN4549A005	0,95	3,15	
B0506			0,889						EN4549B005
A0508		12,700	12,7	0,711		22,60			
B0508				0,889					EN4549B005
A0608	9,525	12,700	0,711	12,7	17,50	EN4549A006	0,95	4,10	
B0608			0,889						EN4549B006
A0610		15,875	15,875	0,711		22,60			
B0610				0,889					EN4549B006
A0810	12,700	15,875	0,711	15,875	17,50	EN4549A008	0,95	5,55	
B0810			0,889						EN4549B008
A0812		19,050	19,05	0,711		22,60			
B0812				0,889					EN4549B008
A1012	15,875	19,050	0,711	19,05	17,50	EN4549A010	0,95	6,80	
B1012			0,889						EN4549B010
A1016		25,400	25,4	0,711		27,40			
B1016				0,889					EN4549B010
A1216	19,050	25,400	0,711	25,4	22,60	EN4549A012	0,95	11,20	
B1216			0,889						EN4549B012
A1220		31,750	31,75	0,711		32,50			
B1220				0,889					EN4549B012
A1620	25,400	31,750	0,711	31,75	22,60	EN4549A016	0,95	14,70	
B1620			0,889						EN4549B016
A1624		38,100	38,1	0,711		32,50			
B1624				0,889					EN4549B016
A2024	31,750	38,100	0,711	38,1	22,60	EN4549A020	0,95	18,20	
B2024			0,889						EN4549B020
A2028		44,450	44,45	0,711		32,50			
B2028				0,889					EN4549B020

^a This code corresponds to :

- tube wall thickness (A : 0,711 mm; B : 0,889 mm);
- nominal diameter of the side with weld end given in 16 th of inches within two digits;
- nominal diameter of the side without weld end given in 16 th of inches within two digits.



Key

- 1 Marking
- 2 Weld end per C
- 3 3 D view

**Figure 2 – Biggest nominal diameter on weld end side
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Table 2 – Biggest nominal diameter on weld end side

Dimensional code ^a	Nominal diameter		Wall thickness of tube	A Théo.	B ± 0,50	C	E ± 0,10	Mass ≈ quoted in kg/1000 parts		
	on weld end side	on the other side								
A0403	6,350	4,775	0,711	4,775	17,50	EN4549A004	0,95	1,90		
B0403			0,889						EN4549B004	
A0503	7,925	4,775	0,711	4,775	17,50	EN4549A005	0,95	2,20		
B0503			0,889						EN4549B005	
A0504		6,350	0,711	6,35		EN4549A005		2,55		
B0504			0,889			EN4549B005				
A0603	9,525	4,775	0,711	4,775	22,60	EN4549A006	0,95	3,20		
B0603			0,889						EN4549B006	
A0604		6,350	0,711	6,35	17,50	EN4549A006		2,90		
B0604			0,889						EN4549B006	
A0605		7,925	0,711	7,925	EN4549A006	3,20				
B0605			0,889					EN4549B006		
A0804	12,700	6,350	0,711	6,35	22,60	EN4549A008	0,95	4,50		
B0804			0,889						EN4549B008	
A0805		7,925	0,711	7,925	EN4549A008	4,90				
B0805			0,889					EN4549B008		
A0806		9,525	0,711	9,525	17,50	EN4549A008		4,20		
B0806			0,889						EN4549B008	
A1006	15,875	9,525	0,711	9,525	22,60	EN4549A010	0,95	6,20		
B1006			0,889						EN4549B010	
A1008		12,700	0,711	12,7	17,50	EN4549A010		5,60		
B1008			0,889						EN4549B010	
A1208	19,050	12,700	0,711	12,7	22,60	EN4549A012	0,95	7,90		
B1208			0,889						EN4549B012	
A1210		15,875	0,711	15,875	17,50	EN4549A012		6,90		
B1210			0,889						EN4549B012	
A1610		25,400	15,875	0,711	15,875	27,40		EN4549A016	0,95	12,60
B1610				0,889						
A1612	19,050		0,711	19,05	22,60	EN4549A016	11,40			
B1612			0,889					EN4549B016		
A2012	31,750	19,050	0,711	19,05	32,50	EN4549A020	0,95	18,40		
B2012			0,889						EN4549B020	
A2016		25,400	0,711	25,4	22,60	EN4549A020		14,90		
B2016			0,889						EN4549B020	
A2416	38,100	25,400	0,711	25,4	32,50	EN4549A024	0,95	23,30		
B2416			0,889						EN4549B024	
A2420		31,750	0,711	31,75	22,60	EN4549A024		18,40		
B2420			0,889						EN4549B024	
A2820	44,450	31,750	0,711	31,75	32,50	EN4549A028	0,95	23,30		
B2820			0,889						EN4549B028	

^a This code corresponds to :

- tube wall thickness (A : 0,711 mm; B : 0,889 mm);
- nominal diameter of the side with weld end given in 16 th of inches within two digits;
- nominal diameter of the side without weld end given in 16 th of inches within two digits.