



SLOVENSKI STANDARD

SIST EN 4549:2014

01-oktober-2014

Nadomešča:

SIST EN 4549:2004

Aeronavtika - Cevni priključki iz toplotnoodpornega jekla ali iz toplotnoodporne nikljeve zlitine - Varjen končnik - Konstrukcijski list - Colska izvedba

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

Luft- und Raumfahrt - Rohrverschraubung, aus hochwarmfestem Stahl oder aus hochwarmfester Nickellegierung - Anschweißzapfen - Konstruktionsblatt - Inch-Reihe

Série aéronautique - Système de raccordement, en acier résistant à chaud ou en alliage de nickel résistant à chaud - Extrémités à souder - Configuration géométrique - Série inch

Ta slovenski standard je istoveten z: EN 4549:2014

ICS:

49.080

Letalski in vesoljski
hidravlični sistemi in deli

Aerospace fluid systems and
components

SIST EN 4549:2014

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4549

April 2014

ICS 49.080

Supersedes EN 4549:2003

English Version

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

Série aérospatiale - Système de raccordement, en acier
résistant à chaud ou en alliage de nickel résistant à chaud -
Extrémités à souder - Configuration géométrique - Série
inch

Luft- und Raumfahrt - Rohrverschraubung, aus
hochwarmfestem Stahl oder aus hochwarmfester
Nickellegierung - Anschweißzapfen - Konstruktionsblatt -
Inch-Reihe

This European Standard was approved by CEN on 27 December 2013.

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, 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: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 4549:2014) 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 October 2014, and conflicting national standards shall be withdrawn at the latest by October 2014.

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

This document supersedes EN 4549:2003.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Introduction

The following dimensions and tolerances have been used on couplings, 37°, spherical, in FE-PA3601 (X6CrNiTi18) or in FE-CM3901 (X10CrNiNb18) material, welded on pipe in FE-PA3601 (X6CrNiTi18) material, or on couplings in NI-PH3601 (NiCr22MoNb) material, welded on pipe in NI-PH3601 (NiCr22MoNb) material, for aerospace applications with nominal pressure of class D in accordance with ISO 6771. They have to be confirmed for other materials or applications.

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1 Scope

This European Standard defines the dimensions and tolerances for the weld end of fluid system components mating with pipe.

Both shall be:

- from inch series;
- of the same dimensional code;
- made of corrosion resistant steel or nickel alloy.

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.

ISO 6771, *Aerospace — Fluid systems and components — Pressure and temperature classifications*

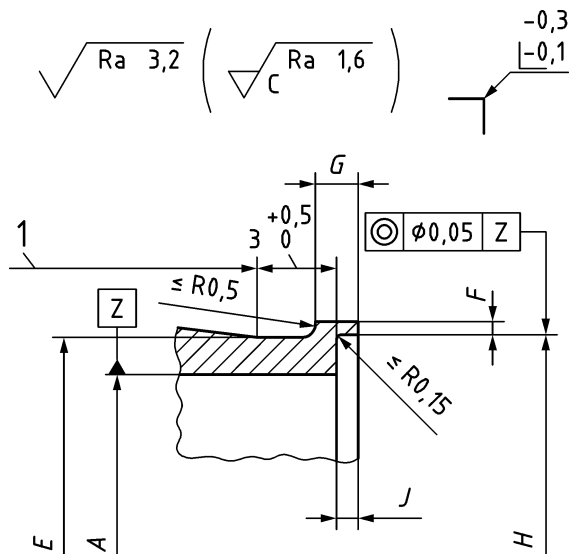
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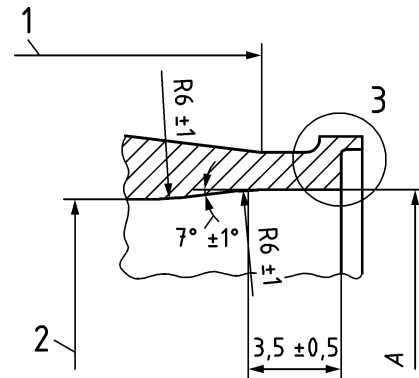
3 Dimensions – Tolerances

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



Key

- 1 External conical part (if any on product standard)



Key

- 1 Internal conical part (if any on product standard)
 2 (internal diameter of the fitting)
 3 See Figure 1

Figure 1

Figure 2

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Table 1

Dimensional code ^a			Nominal diameter	Wall thickness of tube	A	E	F	G	H	J																																																																																																								
					0 − 0,1	+ 0,1 0	0 − 0,05	+ 0,1 0	+ 0,1 0	+ 0,05 0																																																																																																								
A003	4,763	0,711	3,36	4,85	0,35	1,40		4,93	0,70																																																																																																									
B003		0,889	2,96																																																																																																															
A004	6,350	0,711	4,95	6,35							1,40		06,45																																																																																																					
B004		0,889	4,55																																																																																																															
A005	7,924	0,711	6,52	7,95												1,40		8,02																																																																																																
B005		0,889	6,12																																																																																																															
A006	9,525	0,711	8,12	9,55		1,40		9,62																																																																																																										
B006		0,889	7,72																																																																																																															
A008	12,700	0,711	011,30	12,70						0,50		1,60	12,80	0,80																																																																																																				
B008		0,889	010,90																																																																																																															
A010	15,875	0,711	014,48	15,90													1,60	15,98																																																																																																
B010		0,889	014,08																																																																																																															
A012	19,050	0,711	017,65	19,05			1,80	19,15	0,90																																																																																																									
B012		0,889	017,25																																																																																																															
A016	25,400	0,711	024,00	25,40																		2,20	25,50	1,10																																																																																										
B016		0,889	023,60																																																																																																															
A020	31,750	0,711	030,35	31,75																								31,85																																																																																						
B020		0,889	029,95																																																																																																															
A024	38,100	0,711	036,70	38,10																													38,20																																																																																	
B024		0,889	036,30																																																																																																															
A028	44,450	0,711	043,05	44,45																																		44,55																																																																												
B028		0,889	042,65																																																																																																															
A032	50,800	0,711	049,40	50,80																																							50,90																																																																							
B032		0,889	049,00																																																																																																															
A036	57,150	0,711	055,75	57,15																																												57,25																																																																		
B036		0,889	055,35																																																																																																															
A040	63,500	0,711	062,10	63,50																																																	63,60																																																													
B040		0,889	061,70																																																																																																															
A044	69,850	0,711	068,45	69,80																																																						69,90																																																								
B044		0,889	068,05																																																																																																															
A048	76,200	0,711	074,80	76,20																																																											76,30																																																			
B048		0,889	074,40																																																																																																															
A052	82,550	0,711	081,15	82,55																																																																82,65																																														
B052		0,889	080,75																																																																																																															
A056	88,900	0,711	087,50	88,90																																																																					89,00																																									
B056		0,889	087,10																																																																																																															
A064	101,600	0,711	100,20	101,60																																																																										101,70																																				
B064		0,889	099,80																																																																																																															
A072	114,300	0,711	112,90	114,30																																																																															114,40																															
B072		0,889	112,50																																																																																																															
A080	127,000	0,711	125,60	127,00																																																																																				127,10																										
B080		0,889	125,20																																																																																																															
A088	139,700	0,711	138,30	139,70																																																																																									139,80																					
B088		0,889	137,90																																																																																																															
A096	152,400	0,711	151,00	152,40																																																																																														152,50																
B096		0,889	150,60																																																																																																															
A104	165,100	0,711	163,70	165,10																																																																																																			165,20											
B104		0,889	163,30																																																																																																															
A112	177,800	0,711	176,40	177,80																																																																																																								177,90						
B112		0,889	176,00																																																																																																															
A120	190,500	0,711	189,10	190,50																																																																																																													190,60	
B120		0,889	188,70																																																																																																															

^a This code corresponds to:

- tube wall thickness (A: 0,711 mm; B: 0,889 mm);
- nominal diameter given in 16th of inches within three digits.