



# SLOVENSKI STANDARD

## SIST EN 3080:2009

01-julij-2009

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**Aeronavtika - Cevni priključek 8°30' iz titanove zlitine - T-priključki, reducirani, izpust z matico s potisno žico**

Aerospace series - Pipe coupling 8°30' in titanium alloy - Tees, reduced, branch with thrust wire nut

Luft- und Raumfahrt - Rohrverschraubung 8°30' aus Titanlegierung - T-Verschraubungen, reduziert, seitlicher Auslass mit Mutter mit Schubdraht

Série aérospatiale - Système de raccordement 8°30' en alliage de titane - Raccords en té, de réduction branche avec écrou à jonc

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**Ta slovenski standard je istoveten z: EN 3080:2006**

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**ICS:**

49.025.30	Titan	Titanium
49.080	Letalski in vesoljski hidravlični sistemi in deli	Aerospace fluid systems and components

**SIST EN 3080:2009**

**en,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 3080**

July 2006

ICS 49.080

English Version

## Aerospace series - Pipe coupling 8°30' in titanium alloy - Tees, reduced, branch with thrust wire nut

Série aérospatiale - Système de raccordement 8°30' en  
alliage de titane - Raccords en té, de réduction branche  
avec écrou à jonc

Luft- und Raumfahrt - Rohrverschraubung 8°30' aus  
Titanlegierung - T-Verschraubungen, reduziert, seitlicher  
Auslass mit Mutter mit Schubdraht

This European Standard was approved by CEN on 13 January 2006.

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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 Central Secretariat has the same status as the official versions.

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

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## Foreword

This European Standard (EN 3080:2006) has been prepared by the AeroSpace and Defense 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 January 2007, and conflicting national standards shall be withdrawn at the latest by January 2007.

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.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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**EN 3080:2006 (E)****1 Scope**

This standard specifies the characteristics of tees, reduced, branch with thrust wire nut, for pipe couplings 8°30', in titanium alloy, for aerospace applications.

Nominal pressure: up to 28 000 kPa.

Temperature range: – 55 °C to 135 °C.

**2 Normative references**

The following referenced documents are indispensable for the application 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.

ISO 5855-3, *Aerospace series — MJ threads — Part 3: Limit dimensions for fittings for fluid systems.*

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

EN 2491, *Aerospace series — Molybdenum disulphide dry lubricants — Coating methods.*

EN 3264, *Aerospace series — Pipe coupling 8°30' in titanium alloy — Thrust wire nut.*

EN 3273, *Aerospace series — Pipe coupling 8°30' — Dynamic beam seal end for elbows, tees and crosses — Geometric configuration.*

EN 3274, *Aerospace series — Pipe coupling 8°30' — Thread — Geometric configurations.*

EN 3275, *Aerospace series — Pipe coupling 8°30' up to 28 000 kPa — Dynamic beam seal — Metric series — Technical specification.*

EN 3311, *Aerospace series — Titanium alloy TI-P64001 — Annealed — Bar for machining —  $D \leq 150$  mm.<sup>1)</sup>*

EN 3312, *Aerospace series — Titanium alloy TI-P64001 — Grade 2 — Annealed — Forgings —  $D_e \leq 150$  mm.<sup>1)</sup>*

EN 3314, *Aerospace series — Titanium alloy TI-P64001 — Solution treated and aged — Bar for machining —  $D \leq 75$  mm.<sup>1)</sup>*

EN 3315, *Aerospace series — Titanium alloy TI-P64001 — Solution treated and aged — Forgings —  $D_e \leq 75$  mm.<sup>1)</sup>*

EN 4032, *Aerospace series — Pipe coupling 8°30' in titanium alloy — Thrust wire.*

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

### 3 Required characteristics

The requirements apply to the tees.

#### 3.1 Configuration — Dimensions — Mass

According to Figures 1 and 2 and Tables 1 and 2. Dimensions apply before lubricating.

Dimensions not specified are at manufacturer's option provided that the qualification and acceptance requirements of EN 3275, type II are met.

Connections 1 and 3 shall be  $\leq$  connection 2.

#### 3.2 Surface roughness

According to Figure 1, unless otherwise specified in the design documentation.

#### 3.3 Materials

According to EN 3311 or EN 3314, EN 3312 or EN 3315.

#### 3.4 Surface treatment

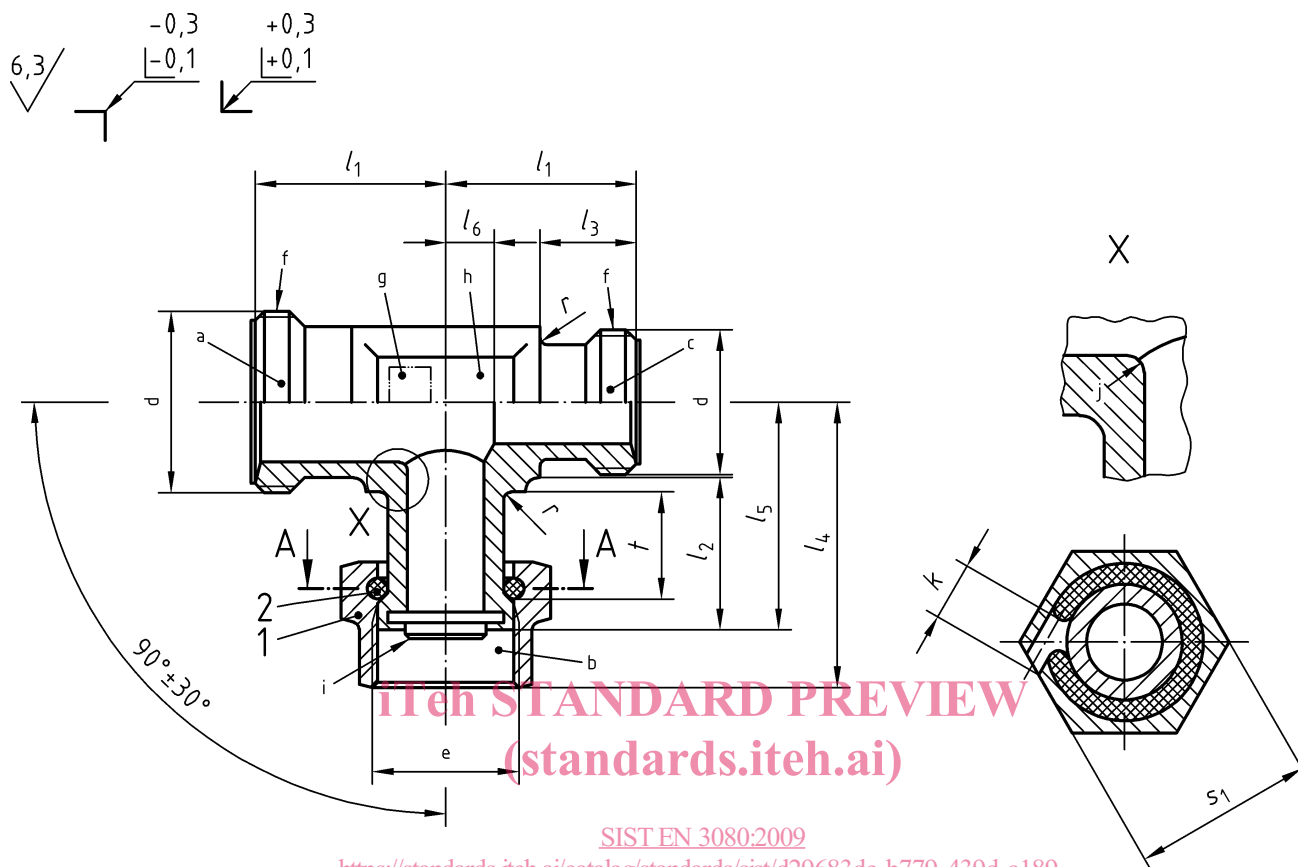
Lubrication: according to EN 2491, on threads, sealing faces and contact area between thrust wire and coupling.

#### 3.5 Internal surface finishing (standards.iteh.ai)

Finishing shall give a radius  $R$  of 0,3 mm to 1,0 mm and a surface roughness of 0,8  $\mu\text{m}$ . Hand deburring is not permitted.

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Dimensions in millimetres

**Key**

- 1 Nut according to EN 3264
- 2 Thrust wire according to EN 4032

- a Connection 1
- b Connection 2
- c Connection 3
- d Thread 1
- e Thread 2
- f According to EN 3274, form C
- g Area for marking
- h Across flats  $s_2$
- i According to EN 3273
- j  $R$  0,3 to 1,0
- k Fully inserted

**Figure 1**



Table 1

Dimensions in millimetres

Code <sup>a</sup>	Thread 1 <sup>b</sup> 4g6g	Thread 2 <sup>b</sup> 4H5H	$l_1^{c,d}$ $\pm 0,2$	$l_2^c$ $\pm 0,4$	$l_3^c$ $\pm 0,4$	$l_4^c$ Ref.	$l_5^e$ $\pm 0,2$	$l_6^{c,d}$	$r$ 0 -0,1	$s_1$ h13	$s_2^f$ h13	$t^g$ 0 -0,2
05	MJ10×1	MJ10×1	16,3	14,7	11,0	24,8	19	1,2	1,0	14	8	6,6
06	MJ12×1,25	MJ12×1,25	17,8	16,2	12,0	27,7	21	1,4	1,0	16	9	7,5
08	MJ14×1,5	MJ14×1,5	20,8	18,2	14,0	32,6	24	1,3	1,0	18	11	9,4
10	MJ16×1,5	MJ16×1,5	21,8	18,2	14,0	33,5	25	1,7	1,0	21	13	9,3
12	MJ18×1,5	MJ18×1,5	23,8	19,2	15,0	36,2	27	2,1	1,2	22	15	10,5
14	MJ20×1,5	MJ20×1,5	23,8	19,7	14,5	37,1	28	2,2	1,2	24	16	10,4
16	MJ22×1,5	MJ22×1,5	25,8	20,7	15,5	38,9	30	2,6	1,2	27	18	10,2
18	MJ24×1,5	MJ24×1,5	27,8	21,7	16,5	41,1	32	3,0	1,2	30	21	10,9
20	MJ27×1,5	MJ27×1,5	27,8	23,0	15,0	44,1	35	3,5	1,5	32	24	10,9
22	MJ30×1,5	MJ30×1,5	30,8	23,5	16,0	46,1	37	4,1	1,5	36	27	10,8
25	MJ33×1,5	MJ33×1,5	32,8	25,5	17,0	49,1	40	4,4	1,5	41	30	10,8
28	MJ36×1,5	MJ36×1,5	34,8	26,7	17,5	52,1	43	5,1	1,5	46	34	10,8
32	MJ39×1,5	MJ39×1,5	36,4	27,2	18,0	53,9	45	5,6	1,5	50	36	10,6

<sup>a</sup> Corresponds to the pipe nominal outside diameter.

<sup>b</sup> According to ISO 5855-3.

<sup>c</sup> These dimensions are defined by the largest connection.

<sup>d</sup> Horizontal drill depth dimension =  $l_1 + l_6$ .

<sup>e</sup> Vertical drill depth dimension =  $l_5$ .

<sup>f</sup> Across flats.

<sup>g</sup> Only applicable when the diameter  $d_2$  of EN 3273 is less than the actual forging diameter. Differences between these diameters are acceptable.

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### 3.6 Mass

According to Figure 2 and Table 2.